

NIST Special Publication 806, 1996 Edition

*Standards Activities of Organizations
in the United States*

Robert B. Toth, Editor

Office of Standards Services
National Institute of Standards and Technology
Gaithersburg, MD 20899-0001

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Arati Prabhakar, *Director*

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SUPPLEMENTARY NOTES
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ABSTRACT (A 2000-CHARACTER OR LESS FACTUAL SUMMARY OF MOST SIGNIFICANT INFORMATION. IF DOCUMENT INCLUDES A SIGNIFICANT BIBLIOGRAPHY OR LITERATURE SURVEY, CITE IT HERE. SPELL OUT ACRONYMS ON FIRST REFERENCE.) (CONTINUE ON SEPARATE PAGE, IF NECESSARY.)

This directory is a guide to mandatory and voluntary standards activities in the United States at the Federal level and by nongovernment (trade associations, technical and other professional societies). It excludes proprietary (company) standards and those of local levels of government. Superseding the 1991 edition (NBS SP 806), "Standards Activities of Organizations in the United States", it includes standards distributors, libraries, and information centers. It also lists organizations that no longer develop standards or have become defunct since the previous directory was issued.

Over 700 current descriptive commentaries are formatted, with subject headings to facilitate access to specific information. The main sections cover developers of formal and informal nongovernment standards; Federal agencies which develop standards; sources of standards documents and information; a subject index and related listings covering acronyms and initials, defunct bodies, and those organizations with name changes. Organizations have been included if they develop standards or contribute to the standardization process, whether voluntary or mandatory, or are sources of standards documents or information. An introductory section provides general information on Federal (including military) standards activities, a list of 20 major nongovernment standards developers, and an overview of U.S. (national) standardization activities.

KEY WORDS (MAXIMUM OF 9; 28 CHARACTERS AND SPACES EACH; SEPARATE WITH SEMICOLONS; ALPHABETIC ORDER; CAPITALIZE ONLY PROPER NAMES) codes; government standardization activities; nongovernment standardization activities; overview of U.S. standardization activities; recommended practices; sources of standards; specifications; standardization; formal standards; informal standards; test methods;

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The National Institute of Standards and Technology was established in 1988 by Congress to "assist industry in the development of technology . . . needed to improve product quality, to modernize manufacturing processes, to ensure product reliability . . . and to facilitate rapid commercialization . . . of products based on new scientific discoveries."

NIST, originally founded as the National Bureau of Standards in 1901, works to strengthen U.S. industry's competitiveness; advance science and engineering; and improve public health, safety, and the environment. One of the agency's basic functions is to develop, maintain, and retain custody of the national standards of measurement, and provide the means and methods for comparing standards used in science, engineering, manufacturing, commerce, industry, and education with the standards adopted or recognized by the Federal Government.

As an agency of the U.S. Commerce Department's Technology Administration, NIST conducts basic and applied research in the physical sciences and engineering, and develops measurement techniques, test methods, standards, and related services. The Institute does generic and precompetitive work on new and advanced technologies. NIST's research facilities are located at Gaithersburg, MD 20899, and at Boulder, CO 80303. For more information contact the Public Inquiries Desk, 301-975-3058.

FOREWORD

The U.S. National Institute of Standards and Technology (NIST) assists the private sector and other agencies of government through research and development of better methods of measurement, determination of physical constants and properties of materials, and design of practical test procedures. We consider standards essential media for disseminating the results of the Institute's research, hence the working of the national standardization system is of vital concern to NIST. The Institute's Technology Services and its Office of Standards Services coordinate within the Federal Government and with the private sector in policy, procedural, and informational matters concerning standards and activities related to their application.

This directory is one of NIST's most popular publications. It is widely distributed in the United States and abroad. It identifies and describes U.S. public and private sector organizations that develop, publish, and revise standards, participate in those processes, identify standards, or make standards available through information centers or distribution channels. These organizations are the foundation for the U.S. standardization system, which has grown steadily since the first volume in this series was issued in 1941. Most of the standards developed by the organizations listed in this directory are included in NIST's National Center for Standards and Certification Information, and are available for reference at the Center's facility. For further information on the Center, see page 718 of this directory.

We believe that this directory will be a useful reference for all who need and use U.S. standards.

Arati Prabhakar
Director

ACKNOWLEDGMENTS

Every entry in this directory was carefully prepared by representatives of the participating organizations. Obviously, this directory could not have been issued without the contributions and cooperation of hundreds of staff persons in the trade associations, professional societies, government agencies, and other organizations that constitute the "standardization community." They deserve the thanks of those who worked on this project and all who use the directory.

Maureen Breitenberg ably coordinated and monitored this project for NIST's Office of Standards Services. Special thanks are due the staff of R. B. Toth Associates, who compiled this directory under contract to NIST. In particular, Mary Ellen Hinkley managed all aspects of information gathering and processing.

Robert B. Toth
Editor

ABSTRACT

This directory is a guide to mandatory and voluntary standards activities in the United States at the Federal level and by nongovernmental (trade associations, technical and other professional societies) organizations. It excludes proprietary (company) standards and those of state and local levels of government. Superseding the 1991 edition (NBS SP 806, "Standards Activities of Organizations in the United States"), it includes standards distributors, libraries, and information centers. It also lists organizations that no longer develop standards or have become defunct since the previous directory was issued.

More than 700 current descriptive commentaries are formatted, with subject headings to facilitate access to specific information. The main sections cover developers of formal and informal nongovernment standards; Federal agencies which develop standards; sources of standards documents and information; a subject index and related listings covering acronyms and initials, defunct bodies, and those organizations with name changes. Organizations have been included if they develop standards or contribute to the standardization process, whether voluntary or mandatory, or are sources of standards documents or information. An introductory section provides general information on Federal (including military) standards activities, a list of 20 major nongovernment standards developers, and an overview of U.S. (national) standardization activities.

Keywords: codes; government standardization activities; nongovernment standardization activities; overview of U.S. standardization activities; recommended practices; sources of standards; specifications; standardization; formal standards; informal standards; test methods

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1. INTRODUCTION

Standardization activities in the United States are broad, complex, and decentralized. This directory is intended to provide perspective and to serve as a source of information about the U.S. standardization system; the inputs are based on material provided by the principals.

This directory is the seventh in a series started in 1941. The first edition, NBS Miscellaneous Publication (MP) 169, "Standardization Activities of National Technical and Trade Organizations," was edited by Robert A. Martino and covered 450 organizations. The second edition, NBS MP 230, was edited by Sherman Booth and issued in 1960. The third edition, "Directory of United States Standardization Activities, NBS MP 288, was edited by Joan Hartman and issued in 1967, and the 1975 edition, NBS Special Publication 417, was edited by Sophie Chumas. This publication supersedes the 1984 and 1991 editions (SP 681 and SP 806 respectively), both of which were compiled and edited by Robert Toth.

1.1 SCOPE AND CRITERIA

This edition summarizes standardization activities of more than 700 organizations which, in the aggregate, comprise the U.S. standardization system. In the broadest sense, "standards" include specifications, codes, guidelines, recommended practices, grading rules, and similar documents. This directory also refers to regulatory standards developed by government agencies, but not to laws or regulations *per se*. However, many federal, state, and local regulations and codes are based on the voluntary standards of organizations listed in this directory.

The directory includes organizations that develop standards and also those that work with others to develop and use standards or that regularly comment on draft standards. Activities that develop only ethical/professional standards, or that set standards for judging animals, are not included.

This profile of U.S. standardization activities is necessarily a snapshot of a moving target. Although extensive efforts were made to be comprehensive, some organizations that conduct standardization activities may not be represented. New standards developing organizations spring up, and there are standards known only to specialists in a narrow field. The information summarized here has been derived from numerous sources. However, it may not be all-encompassing and inclusive.

In response to increasing interest and application of standards throughout the world, the directory also lists some major sources of U.S. standards outside the United States and major U.S. sources of foreign and international standards. Self-designated regional and international organizations are covered separately in a companion NIST Special Publication 767, "Directory of International and Regional Organizations Conducting Standards-Related Activities," which has 338 entries, and NIST

SP 795, "Directory of European Regional Standards-Related Organizations," which has 154 entries.

1.2 AN OVERVIEW

The U.S. standardization community includes: (1) government and nongovernment standards developing organizations; (2) affected interests that participate in the development and approval of standards; and (3) organizations which disseminate standards and information about standards. At the national level, the United States currently maintains about 93 000 standards in an active status. Figure 1 shows the various categories of standards developers and their output.

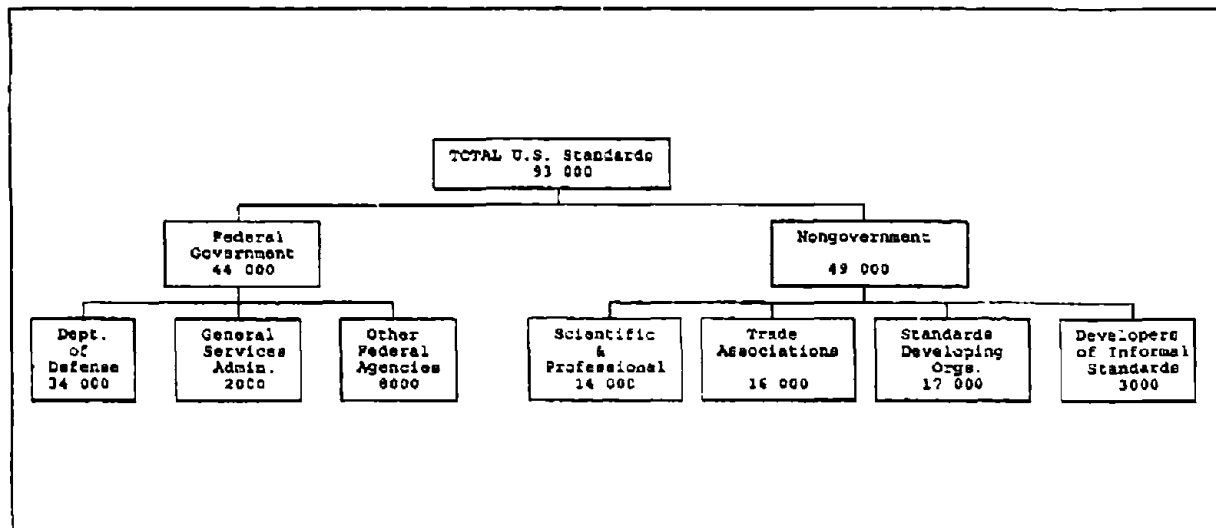


Figure 1. The estimated number of U.S. standards and their developers in 1996. *In addition, the Federal Government has adopted 9500 nongovernmental standards.

In the past 5-year period, the total number of U.S. standards has not increased; and, for the first time, the private sector maintains more national standards than the government. Federal agencies are canceling more standards than they develop, and are also adopting nongovernment standards instead of preparing their own. The total number of Federal Government standards has decreased by 8000 in the past 5 years, and the number of adopted nongovernment standards has increased by 4600. Nongovernment standards developing organizations are adding to the overall

body of standards at a net rate averaging 3.4 percent per year. Very few voluntary standards are being canceled or inactivated.

20 MAJOR NONGOVERNMENT STANDARDS DEVELOPERS

	Approx. Number of Standards
Aerospace Industries Association	3000
American Association of Blood Banks	500
Am. Assoc. of State Highway and Trans. Officials	1100
Am. Conference of Govt. Industrial Hygienists	750
American National Standards Institute	1500*
American Oil Chemists Society	410
American Petroleum Institute	500
American Railway Engineers Association	400
American Society for Testing and Materials	9900
American Society of Mechanical Engineers	600
Association of American Railroads	1400
AOAC International	2100
Cosmetic, Toiletry & Fragrance Association	800
Electronic Industries Association	1300
Institute of Electrical & Electronics Engineers	680
Natl. Association of Photographic Manufacturers	475
Semiconductor Equipt. and Materials Intl.	450
Society of Automotive Engineers International	4550
Underwriters Laboratories	780
U.S. Pharmacopeial Convention	5000

* These standards were developed by organizations other than ANSI and then published and copyrighted by ANSI as American National Standards.

Table 1

Significantly, this increased output can be attributed primarily to mid-sized standards developers. In 1996 the standards of the 19 major nongovernment standards developers (excluding ANSI), shown in Table 1, constitute 71 percent of the nongovernment standards database. In 1984, their standards constituted 81 percent of the total.

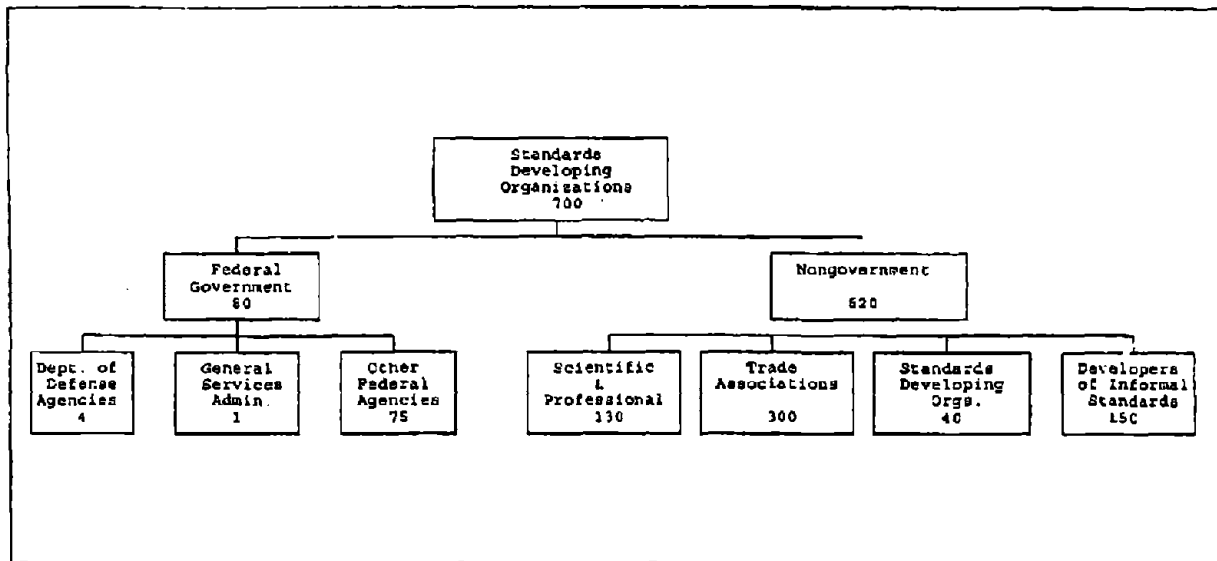


Figure 2. Number of U.S. standards developing organizations.

*Approximately 130 of the 620 nongovernmental organizations have prepared a few standards in the past and occasionally update them, but are not actively engaged in ongoing standards development.

The number of Federal agencies developing standards has remained relatively constant. The number of private sector standards developing organizations with active, ongoing standards development programs has increased by about 50 organizations developing formal standards, and a whole new category of standards developers has emerged. These private sector organizations, for the most part, work outside the traditional standards development framework. Figure 2 depicts the types of nongovernmental organizations that develop national standards. These can be categorized into four groups, the first three of which prepare formal standards.

1. Scientific and Professional Societies. Some of the more than 2000 societies in this group, in addition to their professional and educational roles, also develop standards. Examples are the American Society of Mechanical Engineers, American Association of Cereal Chemists, and the Acoustical Society of America.
2. Trade Associations. These associations deal with mutual business problems in a particular industry, and promote the industry and its products. To address their objectives, many trade associations

develop standards for the products manufactured by their members, although a few concentrate on developing standards for products used by their industries. The Aerospace Industries Association and the American Petroleum Institute are two trade associations that develop standards for items used by their member companies.

3. Standards Developing Organizations. Organizations founded specifically to develop standards are often designated "standards developing organizations" (SDOs). Some confusion occurs when the four types of organizations are collectively called SDOs. The oldest SDO in the United States is the U.S. Pharmacopeial Convention. It published standards for 219 drugs in 1820. The American Society for Testing and Materials can be classified as an SDO, as can many of the organizations that serve as secretariats for ANSI accredited committees (e.g., the Alliance for Telecommunications Solutions).
4. Developers of Informal Standards. This category, listed in Section 2.2 on page 573, could be considered a subset of the group of SDOs founded specifically to develop standards, but these SDOs operate outside the traditional standards development framework. They develop or promote standards which are described as ad hoc, de facto, or consortia standards. Within Europe, and for some regional and international SDOs, the informal standards of these organizations are designated Publicly Available Specifications (PAS) if their developers made them available for public comment. The X/Open Consortium has been designated as a Recognized Submitter of PASs by ISO/IEC Joint Technical Committee 1 which enables the committee to adopt or "transpose" X/Open standards. Examples of developers of informal standards with entries in this edition are the ATM Forum, Bellcore, the Process Industry Practices Initiative (PIP), United States Council for Automotive Research (USCAR), and the Internet Engineering Task Force. Additional information and a list of more than 80 developers of informal standards is included in Section 2.2 of this directory. It is estimated that there may be as many as 150 such organizations in the United States and 50 to 70 others in the rest of the world.

1.3 APPLICATIONS OF STANDARDS

The number of published standards is not necessarily an absolute indicator of overall activity level or significance. Although counted as a single standard, the 12 000 page Boiler Code of the American Society of Mechanical Engineers, and any of the model building codes are not comparable to 95 percent of the standards published in the United States.

The number of available standards may not be indicative of their value to industry and commerce. Real value is realized only when standards are used. Methods have yet to be developed to measure how often, or how widely, individual standards are implemented. Standards developers report that 80 percent of their orders for individual standards are for 15 or 20 percent of the total number of published standards. Many standards are seldom used. We also know that, in spite of 5-year reviews, a substantial

portion of our standards refer to and document obsolescent technology that, while appropriate for spare and maintenance of older equipment, is no longer appropriate for new designs. Some believe that 25 to 30 percent of our national standards - both government and industry - fall into this category. Finally, some U.S. standards are redundant or overlapping. In a few areas, particularly building and construction, we often find five or six standards that, while not identical, define the functional requirements for the same type of product or material. More than 11 000 standards (12%) are applicable to building and construction. More than half of the nongovernment developers of formal standards prepare standards used in building and construction. Two hundred of the 300 trade associations which prepare standards do so exclusively for building products.

The increasing role of organizations that develop standards outside the traditional framework is not the only trend that has affected the overall number of standards and their application. Harmonization of standards used in Canada and the United States is resulting in consolidation and simplification. The outcome of these efforts is one or two standards replacing an earlier three or four Canadian and half a dozen U.S. standards. The national adoption of international standards is increasing. Ten years ago fewer than ten national adoptions (indicated by the designation ANSI/ISO) were listed in the ANSI Catalog. Today the number of adopted ISO and IEC standards is approaching 150. Many of these are based on U.S. standards which can be canceled. Others preclude the need to develop U.S. standards. National adoptions, however, are not a true indication of the extent that U.S. manufacturers and service providers are implementing international standards. Unlike many other countries, U.S. standards developers and users, particularly in high-technology industries and global markets, do not wait for the ANSI imprimatur before citing an international standard. It is estimated that more than half of ISO's and IEC's standards are implemented directly by U.S. standards developers and users.

As Figure 1 indicates, the Department of Defense (DoD) is, by far, the largest developer of standards in the United States. Moreover, the 5650 Federal Specifications and Standards and Commercial Item Descriptions (procurement specifications for off-the-shelf products) prepared by DoD and the General Services Administration (GSA) are widely used by federal and state agencies to procure many common products, and federal test methods are used in many industries. It is estimated that another 8000 standards are developed by such federal agencies as the Occupational Safety and Health Administration (OSHA), the Environmental Protection Agency (EPA), the Food and Drug Administration (FDA), National Institute of Standards and Technology (NIST), and others. Many of these are in a gray area where it is difficult to differentiate between standards and regulations.

Recent trends in DoD standards development have been toward the elimination of detailed military specifications and standards in favor of adopting nongovernment standards or developing Commercial Item Descriptions and defense performance specifications. From 1990 to 1995, DoD canceled over 6700 military specifications and standards, while adopting 2400 nongovernment standards and issuing nearly 1900 Commercial Item Descriptions for procurement of off-the-shelf products. The DoD has now adopted over 7400 nongovernment standards and published more than 4200

Commercial Item Descriptions. Other agencies are also using nongovernment standards extensively. GSA has adopted more than 800 nongovernment standards. The Department of Energy's Technical Standards Program has adopted 60 DOE standards and 800 from the private sector. It is probable that a number of federal agencies have adopted the same nongovernment standard, so the total number adopted by all federal agencies may be overstated.

1.4 CHANGES SINCE 1991

The U.S. standardization community is in a period of change and, within some industrial sectors, redirection. Government contractors, particularly within the defense industry, are learning to cope as the Department of Defense implements policies that promote the use of performance specifications and nongovernment standards, canceling thousands of military standards and specifications. Private sector standards developers are stepping in to fill apparent voids. Equipment suppliers and users are working in many forums to develop standards to promote interconnectivity for telecommunications and information technology systems. A number of trade associations have instituted standardization initiatives to accommodate their members' needs for electronic data interchange (EDI) capabilities.

Nearly 50 federal and private sector organizations are included in this directory for the first time. Seventy have been deleted because they no longer have standardization programs or have merged or disbanded, and the total number of entries has dropped from approximately 750 to approximately 700. This may be because more organizations now prefer to describe their publications as guidelines or recommended practices rather than as standards, and a new class of standards is being published for general use: Interim or Draft Standards. Many organizations are responding to the needs of new technologies by developing standards that can be implemented on a trial basis prior to publication of a fully definitive, final standard.

Many organizations have added "international" to their name, and a dozen use only an acronym, so that their fields of specialization are not evident to the uninitiated. Examples include AIM USA, AOAC International, NACE International, NSF International, and SFI Foundation. A more positive trend is the increasing availability of e-mail addresses that can be used to communicate with standards developers in government and the private sector. More than 50 World-Wide Web sites are listed and each week more organizations announce that their WWW sites are on the Internet providing access to information about their standardization programs. Many make it easier to order standards by putting their catalogs on-line. The Defense Information Systems Agency and the Department of Defense Single Stock Point enable some users to download standards from the Internet. A few standards committees are developing standards on-line, but the most extensive user of the Internet for standards development and delivery is, appropriately, the Internet Engineering Task Force. Thousands of experts develop consensus positions on a range of technical issues in the transparent, open forum of the Internet.

1.5 COMPILATION OF INFORMATION

More than 1200 nongovernment organizations and 100 government agencies were invited to provide entries for the current directory. They included all those cited in the previous edition; organizational members of ANSI; those represented in on-line databases of standards; and organizations listed in directories of trade associations and professional societies. Information for the entries was voluntarily provided by the submitting organizations, but it was sometimes necessary to reformat or edit for uniformity. Wherever possible, information on secretariats, designations, quantities, and the availability of standards was verified by consulting ISO, IEC, and ANSI publications, as well as electronic databases of standards developers and their distributors. In some instances organizations chose not to submit entries although they are known to be standards developers. Identifying authoritative spokespersons for organizations which develop informal standards proved to be especially difficult. Follow-up mailings and telephone calls were made primarily to confirm information. Corrections were sought only in the event of obviously erroneous entries.

The major sections on nongovernment organizations and federal agencies are each preceded by a short description of mechanisms for policy development and coordination. Entries are organized in the various sections of the directory under subheadings to permit information to be found easily. Naturally, organizations with limited standards activities have fewer subheadings.

Each responding organization has determined for itself whether or not it is a "Standards Developer." A few organizations (less than 30) self-identify as Standards Developers although they neither develop nor publish standards, but in fact work within the structure of another organization. Similarly, a few organizations, many of them focal points for standards activities in their field, insist that they not be cited as Standards Developers, but as working with other organizations to develop standards. A perusal of the information included in the Standardization Activities subheading will usually clarify the actual role.

1.6 FUTURE UPDATES

Organizations that are not included in this directory are invited to send pertinent information to:

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Gaithersburg, Maryland 20899
Fax: (301) 926-2871
e-mail: maureen.breitenberg@nist.gov
WWW: <http://www.nist.gov>

Listed organizations are encouraged to keep NIST informed of changes in organizational name or address.

In the near future this directory will be available on the Internet. The Web site will include forms so that listed organizations can update their entries, and new entries can be submitted by those not yet listed. This may well be the last edition in paper of a publication that has served the standardization community for more than half a century.

2. NONGOVERNMENT

2.1 DEVELOPERS OF FORMAL AND INFORMAL STANDARDS

This section lists in alphabetical order 605 entries for trade associations, professional and technical societies, and other U.S. private sector organizations that develop standards or work with other organizations to develop standards. The information presented is intended to provide basic data, not only on the type of standards that are prepared, but some indications of the level of activity. Organizations were asked to provide information on the number of members involved in standardization, the number of staff personnel devoted to standardization programs, and secretariats that they sponsor. The individual named is directly responsible for the organization's standardization activities and should be contacted if additional information is required.

Organizations were asked whether or not they had any certification, qualification, or accreditation programs for products, laboratories, or services. In many cases it was considered just as important to indicate when there was no qualification program. Many standards developers provided information on the prefixes or other designations which identify their publications.

The keywords were provided by the listed organization, supplemented by the editor. These keywords simplify on-line search and for that reason are separated by semicolons the convention that is utilized in most search software. Keywords synopsise the areas in which the organization's standardization activities are directed and, as such, assist the directory user to find pertinent, responsible organizations more quickly.

ABRASIVE GRAIN ASSOCIATION

J. Jeffrey Wherry, Manager

3026 Detroit Road
Cleveland, Ohio 44145
(216) 899-0010

FAX: (216) 892-1404

Founded: 1933

Standards Staff: 1

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1933.
Ten standards published.
Processed through ANSI.

**Standards
Designation**

ANSI B74.x.

Scope

Manufacturers of natural and manufactured abrasives, i.e., silicon carbide, aluminum oxide, corundum, emery, garnet, etc., used in grinding wheels, coated abrasives and other products.

**Standardization
Activities**

Administered by Standards Committee and several subcommittees; participates in international standardization work, cooperating with the International Organization for Standardization (ISO), the Federation of European Producers of Abrasives (FEPA), and ANSI. Publishes ten standards including standards on density, capillarity, friability, and chemical analysis of abrasive grains. Promulgates its documents through the Grinding Wheel Institute Accredited Standards Committee B74. The Technical and Administrative Directors provide technical advice and answer queries related to the Committee's standards activities.

Availability

Distributed directly and through ANSI.

Keywords

abrasives; manufacturing; materials;

ACCREDITED STANDARDS COMMITTEE X9 - FINANCIAL SERVICES

Cynthia L. Fuller, Associate Director

C/O American Bankers Association
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Washington, DC 20036
(202) 663-5284
e-mail: cfuller@aba.com

FAX: (202) 663-7554

	Founded: 1984	Standards Staff: 3
Type of Organization	Standards Developer	
Standards Development	33 active standards, all processed through ANSI. 5 published technical guidelines; 1 published Draft Standard for Trial Use.	
Standards Designation	X9.xx-199x (ex. X9.37-1995); ANSI X9.xx-199x.	
Secretariats	Accredited Standards Committee X9 - Financial Services Administrator, U.S. Technical Advisory Group IS/TO 68, Banking and Related Services	
Scope	Standardization for facilitating financial services operations.	
Standardization Activities	More than 200 committee members participate in development of standards which cover PIN management, wholesale financial transactions, authentication and encryption, check processing specification including electronic check exchange and imaging, magnetic stripe cards, retail electronic transactions, and securities processing. Numerous standards are under development, in such areas as public key cryptography and secure remote access to financial databases. X9 members also vote on international financial industry standards developed under the International Organization for Standardization.	
Availability	Distributed through publisher (phone (216)974-7650) and through ANSI.	
Keywords	banking; financial services; standards; retail financial; whole-sale financial; computers; security;	

ACCREDITING BUREAU OF HEALTH EDUCATION SCHOOLS

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Type of Organization	Accrediting Agency	

Certification Accredited program graduates are eligible for professional registration with American Medical Technologists Registry as medical laboratory technician (MLT) and registered medical assistants (RMA).

Scope Recognized by U.S. Department of Education to accredit medical laboratory technician education programs in the private and public sector through junior college level and medical assistant programs in the private sector and allied health institutions in the private sector. Recognized by Commission on Recognition of Post Secondary Accreditation to accredit medical laboratory technician and medical assistant education programs in the private sector and institutions of allied health in the private sector.

Standardization Activities Establishes criteria and standards for the administration and operation of health education institutions and specialized programs for medical laboratory technician and medical assistant education; enhances the profession through the improvement of schools, programs, and quality of graduates; provides sound business and ethical standards in the fields of health education; maintains standards and procedures consistent with the philosophies and best-known practices of other educational accrediting agencies.

Availability Distributed directly.

Formerly Accrediting Bureau of Medical Technology Schools (1964-78)
Accrediting Bureau of Medical Laboratory Schools (1968-78)

Keywords accreditation; medical laboratory; dental; medical; health education; public health;

ACIL

Joseph F. O'Neil, Executive Director

1629 K Street NW.
Washington, DC 20006
(202) 887-5872 FAX: (202) 887-0021
e-mail: acil@dce2.com

Founded: 1937 Standards Staff: 3

Type of Organization Trade Association
Works through other organizations to develop standards

Representation Participates with others developing standard test procedures and laboratory methods, particularly the National Institute of Standards and Technology; Department of Defense; General Services Administration; Department of Transportation; Department of Labor, Occupational Safety and Health Administration; Food and Drug Administration; Department of Agriculture; Environmental Protection Agency; the Department of Energy; the American National Standards Institute and other public and private sector organizations

Secretariat ANSI Z34 Committee

Scope A trade association of independent scientific and engineering laboratories whose membership includes many of the leading testing and inspection firms in the United States, Mexico, Central America, Japan, Canada and Europe.

Standardization Activities Promotes standards of ethics employed by independent laboratories in special fields of interest and activity including sampling, inspection, physical or nondestructive testing, and chemical analysis of raw, intermediate, and finished materials and products; research and development; the improvement of products or processes; the quality control of composition and performance; and professional consultation in various fields of scientific technology.

Does not write standards for products or materials but participates in writing test procedures and methodology in other standards writing organizations.

Availability Distributed directly.

Formerly American Council of Independent Laboratories (1994)

Keywords laboratories; testing;

ACOUSTICAL SOCIETY OF AMERICA

Avril Brenig, Standards Manager
 120 Wall Street, 32nd Floor
 New York, New York 10005-3993
 (212) 248-0373 FAX: (212) 248-0146
 Founded: 1929 Standards Staff: 3

Type of Organization Technical Society
 Standards Developer

Standards Development Standards development since 1932.
Organizer of 85 working groups and 700 participants active in standards development.
Over 100 active standards.
Processed through ANSI.
Draft standards available for review.

Standards Designation ANSI SX.x.

Government Adoption Some referenced by FDA

Secretariats Four ANSI accredited standards committees:
S1, Acoustics
S2, Mechanical Vibration and Shock
S3, Bioacoustics
S12, Noise
ISO/TC 108, Mechanical Vibration and Shock
ISO/TC 108 SC 1, Balancing

Scope A national society of physicists and engineers involved in the fields of electroacoustics, ultrasonics, architectural acoustics, psychological and physiological acoustics, music, noise and vibration control.

Standardization Activities Coordinates development of standards, specifications, methods of measurement and test, and terminology in the fields of physical acoustics, including architectural acoustics, electroacoustics, sonics and ultrasonics, underwater sound, mechanical shock and vibration, psychological and physiological acoustics, including aspects of general acoustics, shock and vibration which pertain to biological safety, tolerance and comfort; and acoustical, environmental, and occupational noise. Each of the accredited standards committees (operating in accordance with procedures approved by ANSI) is responsible for developing, voting upon, and maintaining or revising its own standards. The ASA Standards Secretariat administers committee organization and activity, and provides liaison between the accredited standards committees and ANSI. After the standards have been produced and adopted by the accredited standards committees, and approved as American National Standards by ANSI, the ASA Standards Secretariat arranges for their publication and distribution.

These four Accredited Standards Committees also provide the United States input to various international committees (IEC and IS).

Availability Sold directly and through ANSI.

Keywords noise control; mechanical shock; vibration; bioacoustics; environment; acoustics;

ADHESIVES MANUFACTURERS ASSOCIATION

Christine Norris, Executive Director

401 N. Michigan Avenue
Chicago, Illinois 60611
(312) 644-6610 FAX: (312) 321-6869

Founded: 1933 Standards Staff: 8 part-time

Type of Organization Trade Association
Works through other organizations to develop standards

Representation ANSI

Scope Twenty member companies represent the major packaging adhesive manufacturing firms in the United States and twenty associate members represent supplier companies. Provides a forum for members to meet and exchange ideas for the advancement of the industry and its members, including research and development of better adhesives and applications. Sales and marketing techniques, employee health and safety, statistical analyses, and regular updates on the economic climate are other important functions.

Standardization Activities The Adhesives Manufacturing Association is not a standards developing organization; it works within the voluntary standards system to coordinate adhesive standards activities and act as the industry voice. Also monitors proposed regulations and standards at the federal, state, and local levels.

Keywords adhesives; packaging; manufacturing;

ADVANCED TELEVISION SYSTEMS COMMITTEE

Robert Hopkins, Executive Director

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Suite 800
Washington, DC 20006
(202) 828-3130 FAX: (202) 828-3131
e-mail: atsc@atsc.org
WWW: //www.atsc.org

Founded: 1982 Standards Staff: 2

Type of Organization	Standards Developing Organization
Standards Development	Develops voluntary national standards for advanced television systems in the United States, including generation, distribution, reception, and display of improved NTSC television systems, enhanced television systems, and high definition television (HDTV) systems.
Standards Designation	ATSC currently has three standards: A/49 Ghost Canceling Reference Signal Standard. A/52 Digital Audio Compression Standard (AC-3). A/53 ATSC Digital Television Standard.
Government Adoption	ATSC Standard A/49 has been adopted by the Federal Communications Commission (FCC). ATSC Standard A/53 has been proposed for adoption by the FCC.
Certification	ATSC does not have a program to certify, qualify, or accredit.
Scope	Created by the Joint Committee for InterSociety Coordination (JCIC). Coordinates the development of voluntary national technical standards for advanced television. Makes recommendations to the United States Department of State for its use in developing positions on various standards issues that are considered by international standards organizations. Membership includes television equipment manufacturers, broadcasters, cable companies, and associated trade and professional societies.
Availability	ATSC standards are available on the Internet using a Web browser at http://www.atsc.org or by anonymous ftp to ftp.atsc.org .
Formerly	National Television System Committee (NTSC)
Keywords	advanced television; ATV; communications; digital television; electronics; high definition television; HDTV; television;

ADVISORY COMMISSION ON TEXTBOOK SPECIFICATIONS

Stephen P. Snyder, Administrative Director

45 William Street
Suite 245
Wellesley, Massachusetts 02181
(617) 239-0103

Type of Organization Advisory Commission
Standards Developer

Government Adoption ACTS standards are applied by most states for textbook purchases.

Scope A federation of three organizations comprised of representation from the Association of American Publishers, Book Manufacturers Institute, and the National Association of State Textbook Administrators.

Standardization Activities Developed the Manufacturing Standards and Specifications for Textbooks, which establish quality standards for paper, printing, binding, and related details. These standards are intended as a guide to aid manufacturers, publishers, textbook administrators, and the general public. The Technical-Administrative Director profiles technical advice and answers queries related to the Commission's standards activities.

Availability Distributed directly.

Keywords publishing; textbooks; education;

AERONAUTICAL RADIO, INC.

Daniel A. Martine, Director Avionics Engineering

2551 Rica Road
Annapolis, Maryland 21401
(301) 266-4111 FAX: (410) 266-4040

Founded: 1929 Standards Staff: 6

Type of Organization Service Provider
Standards Developer

Standards Development 250 Form, Fit, and Function (performance) standards describe airborne electronic equipment for transport aircraft. Draft standards and related reports available upon request. None processed through ANSI.

Standards Designation ARINC Equipment Characteristics (specific equipment).
ARINC Standards (basic system elements).
ARINC Reports (guidance material).

Certification No certification, qualification, or accreditation programs.

Secretariats Airlines Electronic Engineering Committee (AEEC).

Scope A wholly owned subsidiary of ARINC Incorporated, which is owned by major air transport operators. Provides telecommunications ser-

VICES without discrimination to all users of the airspace within the United States. Provides planning and coordination of the users' telecommunications needs with participation by all elements of aviation.

**Standardization
Activities**

ARINC's voluntary standardization activities are conducted by the EEC, chaired by D.A. Martinec, Director of ARINC Avionics Engineering Department. AEEC comprises user specialists from United States, European and Pacific basin airlines, general aviation, U.S. Air Force and airline associations. The voluntary standards are generally drafted by a subcommittee comprised of users, equipment and airframe manufacturers, regulatory agencies and other interested parties. AEEC supervises the subcommittee work and adopts completed documents when appropriate.

Availability

Paper copies are available directly; microfilm from IS.

Keywords

avionics; navigation; surveillance; air-traffic-control; aviation; transportation; electronics; communication;

AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA

Bruce L. Mahone, Manager, Standards Programs

1250 Eye Street, NW
Washington, DC 20005
(202) 371-8462 FAX: (202) 371-8470
e-mail: aia@millkern.com

Founded: 1919

Standards Staff: 2

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1938.
130 members participating in standards activities.
3000 standards, including 140 metric.
None processed through ANSI.
Draft standards available for review.

**Standards
Designation**

NAS, National Aerospace Standard.
NA, Metric NAS.

**Government
Adoption**

The Department of Defense has adopted nearly 700 National Aerospace Standards (NAS's).

Certification	No certification, qualification, or accreditation programs.
Secretariats	ISO/TC 20 Aircraft and Space Vehicles. International Coordinating Council of Aerospace Industries Associations, industry interface with the International Civil Aviation Organization. American National Metric Council, Aerospace Sector Committee.
Scope	A national trade association representing United States companies engaged in research, development, and manufacture of such aerospace systems as aircraft, missiles, spacecraft, and space launch vehicles; propulsion, guidance, and control systems for flight vehicles; and a variety of airborne and ground-based equipment essential to the operation of flight vehicles. Functions on national and international levels, representing its membership in a wide range of technological and other relationships with government agencies and the public.
Standardization Activities	Standardization activities are directed toward fulfilling user-defined requirements of the industry and its customers. A close working alliance exists with the Department of Defense, National Aeronautics and Space Administration, and other agencies and industry organizations. This liaison involves direct participation of government representatives in meetings and activities of the association's primary standards developing body, the National Aerospace Standards Committee. Technical input is solicited from all affected interests. Committees also review and make recommendations on government standards documents and participate in standards programs of ANSI, SAE, ASME, DoD, DoC, and FAA. NAS's are used worldwide in high stress environments. They are applied on all types of aerospace and other high-technology systems, as well as critical non-aerospace applications, such as rapid transit rail cars, amusement park rides, high speed diesel engines, and racing cars. The NAS series is best known for its high strength, precision fasteners, which include bolts, screws, nuts, and rivets of all types in inch (NAS) and metric (NA) series. Other NAS's define high pressure hose, electrical connectors, splices and terminations, rod end bearings, and many other types of hardware and components. Nearly 100 of NAS's specify requirements for manufacturing equipment used by aerospace and other industries, including numerically controlled (NC) and computer aided manufacturing (CAM) machine tools, NC welding and fabrication equipment. One of the first

standards for an industrial robot was released as an NAS in 1982. NAS's have also been developed for airport planning, hazardous material management, air-worthiness requirements of cargo containers, flight testing, propellants, packaging, and other needs of the aerospace community.

Availability Distributed through IHS, ATP, Global, U.C..

Formerly Aeronautical Chamber of Commerce
Aircraft Industries Association (1945)
Aerospace Industries Association (1959)

Keywords aerospace; transportation; defense; testing; high-technology; engineering; manufacturing; fasteners; metric;

AGRICULTURAL RETAILERS ASSOCIATION

Paul E. Kindinger, Executive Vice President

11701 Borman Drive
St. Louis, Missouri 63146
(314) 567-6655 FAX: (314) 567-6808
Founded: 1955 Standards Staff: 1

Type of Organisation Trade Association
Standards Developer

Standards Development Standards developer since 1974.
4 active standards, all processed through ANSI.

Scope A national trade association representing the fluid fertilizer industry worldwide. Consists of 950 member companies in the United States and 16 foreign countries including retail fertilizer dealerships, fertilizer manufacturers, equipment manufacturers, and distributor/jobbers. Serves its membership through support programs in research, technical services, education, legislative action, public relations, and publication services.

Standardization Activities Develops guidelines for regulatory authorities writing their own regulations. Assists individuals working with equipment and materials covered by the standards.

Availability Sold directly and through ANSI.

Formerly National Fertilizer Solutions Association (1992)

Keywords fertilizer; nitrogen; phosphoric acid; storage; safety; agriculture;

AIM USA

Larry W. Roberts, President and CEO

634 Alpha Drive
Pittsburgh, Pennsylvania 15238-2802
(412) 963-8588 FAX: (412) 963-8753
e-mail: adc@aimusa.org

Founded: 1972 Standards Staff: 4

Type of Organization Trade Association
Standards Developer

Standards Development Since 1987 has developed standards for automatic data collection including bar coding, and magnetic strip. 160 Member Companies; participate in AIM, ANSI, government, industry trade association, and inter-industry standards activities. AIM is approved to use the ANSI canvass review method.

Standards Designation AIM.

Government Adoption All nine Uniform Symbology Specifications.

Certification Film Masters Manufacturer Certification (manufacturers of bar code film masters for mass printing).

Scope A national trade association of companies involved in the manufacture or integration of automatic data and collection and identification hardware, software, supplies, services and systems for industrial, commercial, and government applications. Technologies represented include bar code, radio frequency identification, wireless data communications, magnetic stripe, vision systems, biometrics, and OCR.

Standardization Activities Current activities include standardization of bar code symbols, some aspects of magnetic stripe media measurements (magnetic properties) and specification of immunity to magnetic interference, and creation of a standard for radio frequency identification of companion animals.

Availability Distributed directly.

Formerly Automatic Identification Manufacturers (1991)
Keywords automatic data collection; automatic identification; bar codes; magnetic stripe; RFID; wireless; data communication; biometrics; OCR;

AIR AND WASTE MANAGEMENT ASSOCIATION

John A. Thorner, Executive Director

P.O. Box 2861
Pittsburgh, Pennsylvania 15230
(412) 232-3444 FAX: (412) 232-3450

Founded: 1907

Type of Organisation Technical Society
Works through other organizations to develop standards

Representation ANSI Committee Z-21, Subcommittee on Standards for Domestic Gas-Fired Incinerators; ANSI Z-105, Air Cleaning Equipment Committee; ANSI Z-91, Committee of Installation Standards for Oil Burners and Oil Burning Equipment; ANSI Z-228, Incinerator Committee; International Organization for Standardization; Technical Committee ISO/TC 146; and Air Purity Intersociety Committee (Manual of Methods of Ambient Air Sampling Analysis).

Scope A voluntary, cooperative, nonprofit, technical organization devoted to air pollution control and waste management. Membership of over 16 000 is composed of engineers, scientists, enforcement officials, industrial organizations, manufacturers of control equipment and instrumentation, scientific and educational institutions, and consultants.

Standardisation Activities Contributes to standards development through representation on various committees of standards setting organizations.

Keywords air pollution; environment; waste management;

AIR CONDITIONING AND REFRIGERATION INSTITUTE

Mark Menzer, Vice President of Engineering and Research

4301 N. Fairfax Drive, Suite 425
Arlington, Virginia 22203
(703) 524-8800 FAX: (703) 528-3816
WNW: <http://www.ari.org>

Founded: 1953 Standards Staff: 10

Type of Organisation	Trade Association Standards Developer
Standards Development	Standards developer since its formation in 1953. 150 members participate in standards activities. Over 50 active standards processed through ANSI. Draft standards available for review; interested parties are invited to participate in standards development.
Standards Designation	ARI prefix.
Government Adoption	Some government agencies recommend purchase of protested according to specific ARI Standards and/or ARI certified products.
Certification	Seventeen certification programs. Product performance certified by manufacturer, verified by ARI through an independent laboratory.
Secretariats	Chairmanship U.S. TAG ISO/TC 86, Refrigeration; Chairman, IEC/TC 61D Secretariat, ISO TC 86/SC 6, Air-conditioning and heat pump units.
Scope	Trade association of manufacturers of air conditioning, heating, commercial and industrial refrigeration, excluding room air conditioners, household refrigerators and freezers, portable humidifiers and dehumidifiers.
Standardisation Activities	<p>Activities of ARI include: Equipment standards pertaining to physical and operating characteristics of items and equipment; Testing standards procedures for testing equipment in order to determine performance and operating characteristics; Rating standards containing provisions for converting data into general statements of capacity and performance which can be applied to a series of production items; Application standards specifying acceptable installation criteria, including initial selection of equipment.</p> <p>Standards issued cover: unitary air-conditioning equipment and heat pumps, air-cooling and air-heating coils, forced circulation, free-delivery air-coolers for refrigeration, central station air-handling units, room air-induction units, centrifugal liquid-chilling packages, reciprocation chilling packages, liquid line driers, self-contained mechanically-refrigerated drinking water coolers, transport refrigeration units, and sound rating and application standards. ARI also has an International Standards Engineer to handle international standards activities.</p>

Availability Distributed directly and through IHS and Global.

Formerly Refrigeration Equipment Manufacturers Association (REMA)
Air-Conditioning and Refrigeration Machinery Association (ACRMA)

Keywords air-conditioning; refrigeration; heat pumps; water coolers; sound;
cooling coils; heating coils; air handling; building;

AIR CONDITIONING CONTRACTORS OF AMERICA

James P. Norris, Executive Vice President

1712 New Hampshire Avenue, NW
Washington, DC 20036
(202) 483-9370 FAX: (202) 234-4721
e-mail: accaadm@acca.org

Founded: 1969 Standards Staff: 2

Type of Organization Trade Association
Standards Developer

Standards Development Standards developer since 1960.
50 members involved in standards development.
Five standards published.
None processed through ANSI.

Government Adoption HUD, FHA, EPA

Scope An organization of heating, air conditioning, and refrigeration contractors, representing such contractors throughout the United States and in a limited number of foreign countries. Provides management training, TQM training, HVAC system design training, industry relations and government relations services for its members.

Standardization Activities Develops procedures and standards for residential and commercial heating and air conditioning system design, load calculation, and equipment selection. Standards specifically prepared for use by non-engineering design personnel, although used by others. Participates in ANSI Committee Z21 and various ASHRAE committees. Provides EPA-approved certification programs relating to recovery, recycling, and reclamation of CPCs.

Availability Sold directly.

Formerly Air Conditioning and Refrigeration Contractors of America
National Warm Air Heating and Air Conditioning Association (Merged
in 1969)
National Environmental Systems Contractors Association (formed by
Merger, 1969)
Current name adopted 1978

Keywords air-conditioning; heating; refrigeration; air handling; building;

AIR DISTRIBUTION INSTITUTE

Patricia H. Keating, General Manager

4415 West Harrison Street
Suite 242-C
Hillside, Illinois 60162
(708) 449-2933

FAX: (708) 449-0837

Founded: 1947

Standards Staff: 3

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Participated in the development and updating of
Simplified Practice Recommendation R207 since 1947.

Scope

A national trade association representing United States companies
engaged in research, development, and manufacture of air distribu-
tion equipment, such as pipe, duct, and fittings for warm air
heating and air conditioning, for use in residential single and
multi-family dwellings.

**Standardisation
Activities**

Develops production, distribution, and use standards
for pipe, duct, and fitting for warm-air heating and air condi-
tioning. Produces a numerical data system for identification of
products as manufactured by its members, in concert with North
American Heating and Air Conditioning Wholesalers. Currently
updating simplified practices and recommendations.

Availability

Distributed directly.

Keywords

air handling;

AIR MOVEMENT AND CONTROL ASSOCIATION

Peter N. Hanly, Executive Vice President

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Arlington Heights, Illinois 60004
(708) 394-0150 FAX: (708) 253-0088
e-mail: amca@delphi.com.

Founded: 1917 Standards Staff: 22

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1960.
236 members participating in standards activities.
29 active standards.
2 processed through ANSI.
Draft standards available for review.
ANSI accredited standard setting body.

**Standards
Designation**

AMCA prefix.

Certification

Products which have been performance rated in accordance with AMCA standards are eligible to be licensed under the Certified Rating Program and are identified by the display of the AMCA Certified Ratings Seal.

Secretariats

ANSI/TAG for ISO/TC 117 since 1988.

Scope

An international trade association of manufacturers of fans, louver, and dampers used in industrial, commercial, residential, and institutional air handling systems. Includes more than 236 manufacturers in the USA and Canada and some 50 countries overseas. Promotes and furthers the interests of the public and manufacturers of air moving and control devices throughout the world. Promotes the use of voluntary standards and technical documents to help purchasers, specifiers, and users with selection, application, and safe and efficient use of those products.

**Standardization
Activities**

Aims at the development of accurate and reliable testing procedures which are adopted as standards and used as a basis for rating the industry's products. Adopts standards to measure the performance of all air moving devices and the sound power of this equipment, in addition to air curtains and industrial ceiling fans. These include relating pressure drop and/or water penetration to the air flow rate of louvers, dampers, and shutters; leakage rate of dampers at a given pressure difference. Other technical standards cover a wide variety of subjects including nomenclature, drive arrangements, sizes, classification for spark resistant construction, operating limits for centrifugal fans, and inlet box positions for centrifugal fans.

Works closely with ASHRAE. Developed "Laboratory Methods of Testing Fans for Rating," a joint standard with ASHRAE. Works with ISO/TC 117 to develop an international standard for air performance testing. Review and makes recommendations on standards and documents of ASHRAE, ASME, ISO, NFPA, and UL.

Availability Sold directly. Joint ASHRAE standards also available through ASHRAE.

Formerly National Association of Fan Manufacturers (1955)
The Power Fan Manufacturers' Association (1955)
Industrial Unit Heater Association (1955)
Home Ventilation Institute (Merged 1984)

Keywords air curtain; blower; damper; fan; louver; shutters; noise control; air handling; building; residential fans;

AIR TRANSPORT ASSOCIATION OF AMERICA

James Landry, President

1709 New York Avenue, NW.
Washington, DC 20005
(202) 626-4000

FAX: (202) 862-0570

Founded: 1936

Standards Staff: 2

Type of Organization

Trade Association
Standards Developer

Standards Development

32 members participate in standards development.

Standards Designation

ATA prefix.
MSG-3 Airline Manufacturers Maintenance Program Planning Document.
WATOG World Airline Technical Operations Glossary.
ATA/IATA Interline Communications Manual.
S2000 Specification.

Secretariats

ATA provides the secretariat for all of the above standards except the ATA/IATA Interline Communications Manual, which is provided by the IATA.

Scope A national trade association for 30 United States scheduled air carriers and two Canadian scheduled air carriers which are associate members. Provides services in operations, technical, traffic, government affairs, and finance fields. Functions on national and international levels, representing its membership before government bodies, the public, and associated industries.

Standardization Activities Develops and maintains specifications and guidelines for use by airlines and suppliers in maintenance, supply, communications, and other programs. Primarily directed toward meeting the needs of airlines and those organizations, both public and commercial, which interface with the scheduled air carriers. Standards development requires national and international coordination between user airlines and suppliers through the ATA committee structure.

Availability Distributed directly.

Keywords transportation; communications; maintenance; aviation;

AIRCRAFT OWNERS AND PILOTS ASSOCIATION

Steven J. Brown, Senior Vice President

Government and Technical Affairs Division
 421 Aviation Way
 Frederick, Maryland 21701
 (301) 695-2000 FAX: (301) 695-2375

Founded: 1939 Standards Staff: 1

Type of Organization Trade Association
 Works through other organizations to develop standards

Scope More than 40 000 pilots and aircraft owners interested in making flying safer, more economical, and enjoyable.

Standardization Activities Participates in activities of the Radio Technical Commission for Aeronautics which develops Minimum Operational Performance Standards (MOPS) for airborne electronic devices and systems. MOPS are used by the Federal Aviation Administration (FAA) and others to standardize the function of devices and systems used in the National Airspace System. Participates with other organizations whose activities affect pilots.

Keywords aviation; avionics; airborne electronics; transportation;

ALLIANCE FOR TELECOMMUNICATIONS INDUSTRY SOLUTIONS

O.J. Gusella, Executive Director

1200 G Street, NW
Suite 500
Washington, DC 20005
(202) 434-8830 FAX: (202) 393-5453
e-mail: gus.gusella@1.org
WWW: <http://www.t1.org>

Founded: 1983

Standards Staff: 23

**Type of
Organization**

Sponsoring organization for accredited standards
developing committees

Representation

The Alliance for Telecommunications Industry Solutions
represents the member companies on American National Standards
Boards, Councils and Committees such as the Construction Stan-
dards, Information Systems Standards, and Electrical Equipment
Standards Boards. ATIS also represents the member companies to
American National Standards Institute accredited organizations
that use the canvass method of approval.

**Standards
Development**

Committee T1 - Telecommunications first started developing
Standards in 1984. Over 1000 representatives from various
interest categories comprise the membership. Included are ex-
change and interexchange carriers, manufacturers, enhanced service
providers, user groups, professional associations and government
agencies.

Committee T1 - Telecommunications has 265 active standards and is
completing new standards at the rate of approximately six per
month. All of Committee T1's standards output are processed
through ANSI for designation as American National Standards.

Draft standards are available for review during the ANSI BSR-8
process through the Committee T1 Secretariat of the Alliance for
Telecommunications Industry Solutions.

**Standards
Designation**

Committee T1 - Telecommunications Standards are designated
ANSI T1.xxx

**Government
Adoption**

Committee T1 - Telecommunications Standards are
voluntary. To date none has been adopted by regulatory or admin-
istrative agencies. Many of T1's standards have been referenced
in Procurement Documents, however, with wording such as "--values
must meet or exceed those specified in ANSI T1.xxx."

Certification	ATIS does not sponsor programs certifying products or personnel.
Secretariats	ATIS provides secretariat support to its sponsored accredited committees T1 - Telecommunications, 05, Wood Poles and Wood Products, and its other sponsored forums and committees. These include the: SONET Inter-operability Forum (joined ATIS 8/95), Carrier Liaison Committee (CLC), Electronic Communications Service Provider Committee (ECSPC), Information Industry Liaison Committee (IILC), Network Reliability Steering Committee (NRSC), Protection Engineers Group (PEG), Telecommunications Industry Forum (TCIF).
Scope	ATIS actively promotes the timely resolution of national and international issues involving telecommunications standards and operations guidelines. Further, ATIS initiates and maintains open industry forums to address technical and operational issues affecting the nation's telecommunications facilities and services and the development of innovative technologies. ATIS is also an information resource to its members, the forum participants, federal and state agencies and other interested parties.
Standardization Activities	<p>Committee T1 - Telecommunications develops American National Standards regarding interconnection and interoperability of telecommunications networks at interfaces with end user systems, carriers, information and enhanced services providers and customer premises equipment. Additionally, T1 is responsible for contributing a large quantity of technical material to the Department of State's U.S. National process for adoption as official U.S. contribution's to the International Telecommunications Union.</p> <p>Committee 05, Wood Poles and Wood Products, develop American National Standards regarding wood poles, cross-arms, and laminated wood products used in outside plant applications in the telecommunications industry.</p>
Availability	Distributed through ANSI.
Formerly	Exchange Carriers Standards Association (ECSA), 1993
Keywords	telecommunications; interfaces; poles;

ALLIANCE OF AMERICAN INSURERS

Rodger S. Lawson, Ph.D., President

1501 Woodfield Road
Suite 400 West
Schaumburg, Illinois 60173-4980
(708) 330-8500 FAX: (708) 330-8602

Founded: 1922 Standards Staff: 1

Type of Organization Trade Association
Works through other organizations to support standards development

Representation 50 Representatives serving on 100 standards committees of ANSI, NFPA, ASTM, and ASME.

Scope A membership organization of 244 property/casualty insurers addressing the spectrum of insurance related issues.

Standardization Activities Financially supports, through ANSI and NFPA, the consensus development of safety and health standards, as well as provides technical representatives to assist in formulating standards. To maximize the usefulness of the standards alliance, representatives urge performance standards where practicable. Standards are used in training seminars and in evaluating hazards and risks.

Formerly American Mutual Insurance Alliance
National Association of Mutual Casualty Companies
and Alliance of American Insurers

Keywords insurance; loss control; fire protection; safety; industrial hygiene;

ALUMINUM ASSOCIATION

David N. Parker, President

900 19th Street, NW.
Washington, DC 20006
(202) 862-5138 FAX: (202) 862-5164

Founded: 1933 Standards Staff: 2

Type of Organization Trade Association
Standards Developer

Standards Development 7 active standards.
 Processed through ANSI.

Certification No certification, qualification, or accreditation programs.

Secretariats ANSI Standards Committee H35 on Aluminum and Aluminum Alloys.

Scope Serves the public as a source of noncommercial, industry wide information on aluminum and the aluminum industry. Membership embraces producers of primary ingot, sheet, and plate; and leading extruders, foundries, secondary smelters, forging firms, and producers of aluminum electrical conductors. Represents virtually all United States primary aluminum production and 85 percent of semifabricated aluminum product shipments.

Functions include developing, publishing, and distributing technical data, collecting and publishing industry statistics, and conducting school programs and industry seminars.

Standardization Activities Standards of the association are the basis for aluminum and aluminum alloy products for the majority of government, American Society for Testing and Materials, company, and other specifications. Specific publications include: Aluminum Standards and Data (published biennially), Drafting Standards - Aluminum Extruded and Tubular Products, Designation System for Aluminum Finishes, Welding Aluminum: Theory and Practice; Aluminum Design Manual, and Standards for Aluminum Standard Permanent Mold Castings.

Availability Directly through ANSI.

Keywords aluminum; alloys; metallurgy; materials;

AMERICAN ACADEMY OF PEDIATRICS

Joe M. Sanders, Jr., M.D., Executive Director

141 Northwest Point Boulevard
 Elk Grove Village, Illinois 60007
 (708) 228-5005 FAX: (708) 228-5097

Founded: 1930 Standards Staff: 4

Type of Organization Professional Society
 Health Care Guidelines Development

Scope The American Academy of Pediatrics is committed to the attainment of optimal physical, mental, and social health for all infants, children, adolescents, and young adults. To this end, the 49 000 members of the Academy dedicate their efforts and resources.

Standardization Activities The AAP publishes statements and manuals to help health professionals in their treatment of children. These recommendations have been used by regulatory agencies to establish guidelines for pediatric care. These pertain to perinatal care, pediatric nutrition, out-of-home day care, and treatment of infectious diseases, guidelines for health supervision, accident and poison prevention, school health, sports medicine, drug therapies and toxicities, and environmental hazards.

Availability Distributed directly.

Keywords children; guidelines; perinatal care; general health care;

AMERICAN ALLIANCE FOR HEALTH, PHYSICAL EDUCATION, RECREATION AND DANCE

A. Gilson Brown, Executive Vice President

1900 Association Drive
 Reston, Virginia 22091
 (703) 476-3400 FAX: (703) 476-9527
 e-mail: evp@aaahperd.org.

Founded: 1885 Standards Staff: 5

Type of Organization Professional Society
 Standards Developer

Certification Certification programs are implemented at the state level through activities of AAHPERD members. Professional preparation programs in colleges are developed using AAHPERD standards.

Scope A voluntary professional organization for education in the field of recreation and dance. Promotes the improvement of education through such professional services as consultation, periodicals and special publications, leadership development, determination of standards, public information, and research.

Standardization Activities Standards are national in scope and are promoted through the education of teachers and professionals in allied fields. Publishes over 30 books and pamphlets containing guidelines and standards. With funding from the Department of Health, Education and Welfare, prepared Guideline for Professional Preparation for Personnel Involved in Physical Education and Recreation.

for the Handicapped. Cooperates with other organizations such as the Association for the Advancement of Health Education, National Association for Sport and Physical Education, and the American Association for Leisure and Recreation.

Keywords physical education; health care; recreation; dance; physically handicapped;

AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION

Carl Wagus, Technical Director

1540 E. Dundee Road, Suite 310

Suite 118

Palatine, IL 60067-8321

(708) 202-1350

FAX: (708) 202-1480

Founded: 1936

Standards Staff: 4

Type of Organization

Trade Association
Standards Developer

Standards Designation

Standards developer since 1936. Over 200 member companies participate internally in standards creation. ANSI standards are canvassed to hundreds of nonmember organizations, companies and individuals. AAMA currently has 43 standards, four of which are ANSI/AAMA standards.

Standards Designation

ANSI/AAMA prefix (e.g., ANSI/AAMA 101-93), or AAMA prefix (e.g., AAMA 1701.2-1995).

Government Adoption

ANSI/AAMA standards referenced by HUD for both conventional construction and for mobile home/manufactured housing. ANSI/AAMA standards are also referenced in the ICBO Uniform Building Code, BOCA National Code, SBCCI Standard Building Code and CABO One and Two Family Dwelling Code.

Certification

Certification programs for: aluminum and vinyl windows and doors; storm windows; storm doors; windows, egress windows and swing doors used in manufactured housing; vinyl extrusions used in windows and doors.

Secretariats

None

Scope

AAMA is a trade association of approximately 200 firms engaged in the manufacture and sale of architectural building components.

These include windows, sliding glass doors, storm windows and doors, curtain walls, store fronts, skylights, residential siding, and related products. AAMA activities include developing standards, certification programs, specifications and guidelines for architects and specifiers; encouraging research and development of new or improved products; and representing the interests of the architectural building products industry to code and regulatory bodies.

**Standardization
Activities**

AAMA standards are developed by committees and approved by consensus ballot to the entire membership. ANSI/AAMA standards are created by the same process, but are then canvassed to outside companies and individuals following ANSI procedures. AAMA certifies products to the AAMA and ANSI/AAMA standards, requiring testing conducted by independent laboratories accredited by AAMA and validated through periodic in-plant inspection of production. AAMA's certification programs are monitored and accredited by ANSI.

Availability

AAMA standards are available only directly through AAMA. ANSI/AAMA standards are available from AAMA or from ANSI.

Keywords

aluminum; vinyl; windows; doors; curtain walls; store fronts; skylights; siding; building; mobile home; manufactured housing;

AMERICAN ASSOCIATION FOR CLINICAL CHEMISTRY

Richard G. Flaherty, Executive Vice President

2101 L Street, NW
Suite 202
Washington, DC 20037
(202) 857-0717 FAX: (202) 887-5093

Founded: 1948

**Type of
Organization**

Scientific/Professional Society
Works through other organizations to develop standards

Scope

A nonprofit organization of professional chemists who specialize in clinical chemistry.

**Standardization
Activities**

The Standards Committee carries out background development of standard methodology and materials, and collaborates closely with the International Federation of Clinical Chemistry and the National Committee on Clinical Laboratory Standards and the National Institutes of Health. Maintains close alliance with the clinical laboratory programs of the U.S. National Institute of Standards and Technology in developing specifications for new standard reference materials, and with the Centers for Disease

Control and Prevention and with the Food and Drug Administration in evaluating methods and performance in the field. Methods and recommendations are published in the journal, Clinical Chemistry, or in the book series, Standard Methods in Clinical Chemistry.

Formerly The American Association of Clinical Chemists (1975)

Keywords clinical chemistry; laboratory testing;

AMERICAN ASSOCIATION FOR LABORATORY ACCREDITATION

Peter Unger, President

656 Quince Orchard Road, Suite 620
Gaithersburg, Maryland 20878-1409
(301) 670-1377 FAX: (301) 869-1495

Founded: 1978

Type of Organization Scientific Organization
Accreditation, Registration, Certification Body

Certification Accredits laboratories on a voluntary basis to ISO Guide 25. Accreditation is renewed on a two-year interval, with annual review documentation. Registers reference material supplies and laboratories to ISO 9000 and certifies reference materials. 729 accreditation actions in 41 states, Korea, Italy, Mexico, Switzerland, Taiwan and Canada in 11 fields of testing.

Scope Accreditation for testing laboratories and/or inspection agencies on the basis of technical competence. Membership available to individuals, educational, scientific, engineering or technical society, governmental, corporations or trade associations. Currently, 390 active members. Fields of testing include acoustical, biological, chemical, construction materials, electrical, environmental, geotechnical, mechanical, metrology, nondestructive, and thermal. Special programs include asbestos, automotive, coal, metals, metal fasteners, paint, radon, thermal (insulation materials and fire testing), thermal (wood heaters), and windows and doors.

Standardization Activities Employs ISO Guide 25 for general criteria. Specific criteria for each field of testing are developed with the use of national standards. Participates in United States delegation to the International Laboratory Accreditation Conferences.

Keywords testing; accreditation; laboratory; quality system; reference materials; certification;

AMERICAN ASSOCIATION FOR RESPIRATORY CARE

Sam P. Giordano, Executive Director

11030 Ables Lane
Dallas, Texas 75229
(214) 243-2272 FAX: (214) 484-2720

Founded: 1947 Standards Staff: 5

Type of Organization Professional Society
Standards Developer

Standards Development Develops standards concerning administrative, clinical, and technical aspects of respiratory care. Standards available for review.

Standards Designation AARC prefix.

Scope The sole developer of clinical standards for respiratory care practices. Cooperates to develop administrative standards with such organizations as the Joint Commission of Accreditation of Hospitals. Develops technical standards in cooperation with the American National Standards Institute (ANSI), the Association for the Advancement of Medical Instrumentation (AAMI), and the National Fire Protection Association (NFPA). Also develops clinical standards in cooperation with appropriate regulatory agencies and sponsoring organizations.

Standardization Activities Maintains a Standards Committee which responds to requests for standard development from various groups. The Standards Committee also reviews existing data and develops documents without outside requests for such activity. Standards developed in cooperation with other organizations and approved by AARC directors are officially endorsed and published. All standards developed are reviewed every five years. Amends documents prior to mandatory review period if significant changes have occurred to warrant such amendments.

Availability Distributed directly.

Formerly American Association for Respiratory Therapy
Keywords respiratory care; respiratory therapy; clinical practice; health care;

AMERICAN ASSOCIATION OF ADVERTISING AGENCIES

O. Burtch Drake, President
405 Lexington Avenue
New York, New York 10174
(212) 682-2500 FAX: (212) 682-8391
Founded: 1917 Standards Staff: 2

Type of Organization

Trade Association
Standards Developer

Standards Development

Standards developer since 1948.
5 active standards.

Scope

Fosters, strengthens and improves the advertising agency business; advances the cause of advertising; and aids member agencies to operate more efficiently and profitably.

Standardization Activities

Cooperates with other industry organizations to develop standards or specifications for the graphic arts industry ensuring quality control for the preparation and distribution of advertising materials for current and future print-related media. This includes involvement with the changes occurring to the offset, rotogravure, and other digitally driven printing processes. Through its involvement in industry initiatives the AAAA assures successful implementation of standards that aid its members. Helping achieve this is an ongoing dialogue with the Magazine Publishers of America, the International Prepress Association (IPA), the National Association of Printing Ink Manufacturers, the Gravure Association of America, the Printing Industries of America (PIA) as well as the N.A.A. (Newspaper Association of America). All of these organizations have the common purpose of improving the reproduction of advertisements in either magazines or newspapers.

As the transition continues to link advertising digitally with current and alternative media (e.g., CD-ROM, multimedia, Web Sites, HDTV, etc.) Both domestically and abroad, standards will be necessary for the entire evolution. The AAAA Print Committee, along with industry organizations and associations like the DDAP (Digital Distribution of Advertising for Publication), the Committee for Graphic Arts Technology Standards (CGATS), the National

Printing Equipment and Supply Association, and the Research and Engineering Council, moves to unite a global economy through the development of accredited standards driven by open process integration.

Availability Distributed directly.

Keywords magazines; publishing; advertising; communications; printing;

AMERICAN ASSOCIATION OF BLOOD BANKS

Karen Shoos, Chief Executive Officer

8101 Glenbrook Road
 Bethesda, Maryland 20814
 (301) 907-6977 FAX: (301) 970-6895

Founded: 1947 Standards Staff: 5

Type of Organization

Professional Society
 Standards Developer

Standards Development

Standards developer since 1958.
 All proposed standards are published for comment prior to final adoption.
 Over 500 active standards.
 None processed through ANSI.

Standards Designation

AABB prefix.

Government Adoption

The Department of Defense has adopted AABB Standards and provides them to their hospital and blood collecting facilities. Several state health departments have adopted AABB Standards as the basis for regulation.

Certification

Inspection and Accreditation Program which, through inspecting and accrediting facilities, strives to improve the quality and safety of transfusions and assists the medical director of a blood bank or transfusion service in determining whether methods, procedures, and personnel meet established AABB standards. Several states accept AABB inspections as equivalent to their state inspections for licensing requirements.

Scope

A professional, not-for-profit scientific and administrative association for those individuals and institutions engaged in the many facets of blood banking. Membership includes physicians,

scientists, medical technologists, administrators, nurses and other involved in the field of blood banking. The AABB serves as the focus for the advancement of the professional practice of blood collection, transfusion therapy, and related fields. 9200 individual and 2400 institutional members

Standardisation Activities Develops and publishes standards of minimum acceptable practice applicable to relevant aspects of blood banking; maintains liaison with other organizations, including the College of American Pathologists, Health Care Financing Administration, and the Food and Drug Administration.

Availability Distributed directly.

Keywords blood banks; transfusion; public health;

AMERICAN ASSOCIATION OF CEREAL CHEMISTS

Steven C. Nelson, Executive Vice President

3340 Pilot Knob Road
St. Paul, Minnesota 55121
(612) 454-7250 FAX: (612) 454-0766

Founded: 1915 Standards Staff: 4

Type of Organization Scientific Society
Standards Developer

Standards Development Standards developer since 1924.
250 members active in standards development.
32 technical committees assist in standards work.
350 standard methods and procedures.

Standards Designation AACC Approved Methods 00-00.

Government Adoption Largely used by the Federal Grain Inspection Service of the USDA and FDA in the area of cereals.

Certification Provides certification program for "Sanitation Analyst." Specialized area for quantitative and qualitative analysis of food products for possible contamination by insects, rodents, or other foreign matter of animal origin.

Scope An international society which develops and standardizes analytical methods used in the milling and baking industries. Expanded in latter years to cover entire cereal processing industry and to

advance and encourage research on all cereal grains and related materials. Methodology is related to all needs of the cereal scientist, from sampling, inorganic and organic ingredients, and microbiology, to chemical residues, additives, and sanitation.

**Standardization
Activities**

Develops methodology rather than standards per se. Cooperates with the Association of Official Analytical Chemists, American Oil Chemists Society and ASTM. Subjects include analytical methods and apparatus for flours and doughs, flour specifications, and sanitation methods.

Availability

Sold directly or through bookstores.

Keywords

cereals; cereal chemistry; grain; grain storage; nutrition; food; agriculture; sanitation;

AMERICAN ASSOCIATION OF MOTOR VEHICLE ADMINISTRATORS

John Strandquist, President and CEO

4200 Wilson Boulevard
Suite 600
Arlington, VA 22203
(703) 522-4200

FAX: (703)522-1553

Founded: 1933

Standards Staff: 25

**Type of
Organization**

Voluntary Nonprofit Association of State and Provincial Officials.
Works through other organizations to develop standards.

Representation

Members and staff representatives active in standards setting committees of SAE, ANSI, ASTM, Canadian Standards Association, National Highway Traffic Safety Administration (NHTSA), CPSC, Economic Commission for Europe (ECE), and Federal Highway Administration (FHWA).

Scope

An organization responsible for the administration and enforcement of motor vehicle and traffic laws in the United States and Canada. Provides the principal forum where state and provincial officials exchange information on developments in the industry and maintain liaison between industry and Federal Government.

**Standardization
Activities**

Activities are directed toward promoting uniform laws and regulations for motor vehicle administration, traffic law enforcement, highway safety, and the standardization and uniform enforcement of these laws. Principal functions are in the areas of: model program development in disciplines relating to motor

vehicle administration, police traffic services, and highway safety; an information clearinghouse; and the industry spokesman.

Services include advice and counsel in various facets of driver services, vehicle services, commercial motor carrier activities, including interstate and provincial reciprocity, and program planning and systems development.

Keywords motor vehicle; automobile; safety; traffic laws; transportation; government officials;

AMERICAN ASSOCIATION OF NEUROLOGICAL SURGEONS

see JOINT NEUROSURGICAL COMMITTEE ON DEVICES AND DRUGS

AMERICAN ASSOCIATION OF NURSERYMEN

Robert J. Dolibois, CAE, Executive Vice President

1250 Eye Street, NW.
Washington, DC 20005
(202) 789-2900 FAX: (202) 789-1893

Founded: 1876

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Designation**

American Standards for Nursery Stock ANSI-Z60.1 - 1990.

Scope

Enables the nursery industry to work on those projects and activities which foster the general welfare of the industry and their customers.

**Standardization
Activities**

Develops grades and standards for the use of the nursery industry, landscape architects, landscape contractors, governmental agencies, and others preparing lists and specifications for trading in trees, shrubs, roses, vines, fruit trees, small fruit, bulbs, tubers, and forest tree seedlings through its Horticulture Standards Committee. Standards contain height, caliper, root size, root ball, container size and various other standardized means of describing nursery plants.

Availability Distributed directly and through ANSI.

Keywords horticulture; nursery plants; agriculture;

AMERICAN ASSOCIATION OF POISON CONTROL CENTERS

Rose Ann Soloway, R.N., Administrator

3201 New Mexico Avenue, NW
Suite 310
Washington, DC 20016
(202) 362-7217 FAX: (202) 362-8377

Founded: 1957

Type of Organization Trade Association
Standards Developer

Scope The American Association of Poison Control Centers is the professional association for poison centers and those interested in the prevention and treatment of poison exposures. Activities include compilation of national statistics about poison exposures; extended data searches for detailed information about exposures to specific products; sponsorship of an annual scientific meeting; certification of regional poison centers; and certification of specialists in poison information.

Standardization Activities A committee on Regional Poison Control Center Certification prepares standard recommended practices for poison control and poison information centers. Since 1979 these have been accepted as standard recommended practices for the establishment and operation of properly qualified centers.

A Committee on Personnel Proficiency is responsible for preparing and administering a certification examination for specialists in poison information, since 1983.

Availability Distributed directly.

Keywords poison control; education; medical certification;

AMERICAN ASSOCIATION OF PSYCHIATRIC SERVICES FOR CHILDREN

Sydney Koret, Ph.D., Executive Director

1200-C Scottsville Road, Suite 225
Rochester, New York 14624
(716) 235-6910

Founded: 1948

Type of Organization Professional Society
Standards Developer

Certification AAPSC provides accreditation to organizations providing children's mental health service and/or training.

Scope Membership consists of 150 child psychiatric services that foster prevention of mental and emotional disorders and further the development and application of clinical knowledge dealing with child mental health as well as individual practitioners (child psychiatrists, psychologists, social workers, nurses, etc.) Provides for individual or organizational extraordinary achievement and in study and treatment of schizophrenia.

Standardization Activities Provides leadership in defining and maintaining standards of clinical practice, organization of treatment, and specialized training. To be eligible for accreditation, a child psychiatric facility must provide proof of its continuity of service, together with background of its key staff members. The AAPSC Division of Accreditation reviews treatment approaches, staff competence and quality, quality care and physical plant in a site visit, conducted by trained visitors. The Division, organized by mental health disciplines, reviews and determines eligibility for accreditation.

Keywords mental health; psychiatric services; children; health care;

AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS

Francis B. Francois, Executive Director

444 North Capitol Street NW
Suite 249
Washington, DC 20001
(202) 624-5800

FAX: (202) 624-5806

Founded: 1914

Standards Staff: 5

Type of Organization State Government Association
Standards Developer

Standards Designation Materials Specifications: M-XXX.
Test Methods: T-XXX.
Recommended Practices: R-XXX.

Government Adoption	The Federal Highway Administration has adopted AASHTO standards by reference in the Code of Federal Regulations. State transportation agencies either adopt or reference AASHTO standards.
Certification	Operates a laboratory accreditation program on behalf of state highway and transportation officials. The AASHTO Materials Reference Laboratory (AMRL), established at the National Institute of Standards and Technology, promotes uniformity in the testing of construction materials by public or private sector laboratories serving the construction field.
Scope	Fosters development, operation, and maintenance of a nation-wide integrated transportation system and cooperates with other appropriate agencies in considering matters of mutual interest in serving the public need.
Standardization Activities	<p>Develops and publishes The Standard Specifications for Transportation Materials and Methods of Sampling and Testing, containing 176 specifications and 9 recommended practices. Maintains a Subcommittee on Material which has members representing each of the 50 states, the Commonwealths of Puerto Rico and the Northern Mariana Islands, the District of Columbia, the United States Department of Transportation, the New Jersey Turnpike Authority, 6 Canadian Provinces and 2 territories.</p> <p>Develops and Publishes Interim Specifications which have the same status as standards of the American Association of State Highway and Transportation Officials, but are tentative revisions to be approved by the Subcommittee prior to issuance as standards of the Association.</p> <p>Develops and publishes: Standard Specifications for Highway Bridges; A Policy on Geometric Design of Rural Highways; A Policy on Design of Urban Highways and Arterial Streets; Guide to Metric Conversion; Guide for Design of Pavement Structures; Guide for the Design of Park-and-Ride Facilities; Highway Drainage Guidelines; A Policy on Geometric Design of Highways and Streets; and Roadside Design Guide.</p>
Availability	Sold directly and through IS.
Formerly	American Association of State Highway Officials (1973)
Keywords	transportation; highways; construction materials; government officials;

AMERICAN ASSOCIATION OF TEXTILE CHEMISTS AND COLORISTS

William R. Martin, Executive Director

P.O. Box 12215
Research Triangle Park, North Carolina 27709
(919) 549-8141 FAX: (919) 549-8933

Founded: 1921 Standards Staff: 2

**Type of
Organization**

Technical Society
Standards Developer

**Standards
Development**

Standards Developer since 1921.
1100 members participating in standards activities.
138 active standards.
Most AATCC Test Methods become American National
Standards through ANSI.
Drafts of proposed or revised test methods available for review.

**Standards
Designation**

AATCC prefix.

**Government
Adoption**

Various government agencies have either adopted or
adapted a number of AATCC test methods.

Certification

No certification, qualification, or accreditation programs.

Secretariats

ISO/TC 38/SC 1, Tests for colored textiles and colorants
ISO/TC 38/SC 2, Cleansing, finishing and water resistance tests
USA TAG for ISO/TC 38-Textiles

Scope

Promotes increased knowledge of the application of dyes and
chemicals in the textile industry; encourages, in a practical way,
research on chemical processes and materials of importance to the
textile industry; and promotes the exchange of professional
knowledge.

Membership includes many leading textile chemists and colorists in
nearly every state and 50 countries. Some 300 companies support
the association as corporate members.

**Standardization
Activities**

Internationally recognized for its standard methods of
testing dyed and chemically treated fibers and fabrics to measure
such performance characteristics as colorfastness to light and
washing, crease resistance, shrinkage, wash-and-wear, water
resistance, flammability, and other conditions to which textiles
may be subjected. Ensures textile quality and performance by
controlled AATCC test methods.

Maintains cooperative relationships with other associations and agencies of the federal government. Participates in the International Organization for Standardization (ISO) in an effort to bring about worldwide uniformity in testing procedures.

Publishes Textile Chemist and Colorist, issued monthly, and an annual Technical Manual containing the association's test methods. Collaborates with the British Society of Dyers and Colorists on numerous projects.

Availability Distributed directly and through IHS and Global.

Keywords textiles; chemistry; dyes; finished; colorfastness; flammability; laboratory testing;

AMERICAN AUTOMOBILE ASSOCIATION

Robert L. Darbelnet, President and CEO

1000 AAA Drive
Heathrow, Florida 32746-5064
(407) 444-7000 FAX: (407) 444-8030

Founded: 1902

Type of Organization Trade Association
Works through other organizations to develop standards

Scope Federation of 113 motor clubs serving more than 37 million members throughout the United States and Canada. A nonprofit, tax-paying organization, which provides auto and travel-related services to its members, and works on behalf of the best interests of the motoring and traveling public to promote safer and more enjoyable travel.

Standardization Activities Participates in the development of proposed standards of various types relating to increasing the safety and convenience of pedestrians in traffic. Develops detailed methods and standards for training new drivers and improving the skills of older drivers. Represented on committees of the Transportation Research Board, National Safety Council, and National Committee on Uniform Traffic Control Devices.

Cooperates with other organizations to develop standards for the operation of school safety patrols and adult crossing guards, and in standards activities in the fields of pedestrian protection, and automotive engineering.

Keywords motor vehicle; transportation; traffic safety; highway safety;
motor laws; tourism; insurance;

AMERICAN AUTOMOBILE MANUFACTURERS ASSOCIATION OF THE UNITED STATES

Richard L. Klimisch, Ph.D., Vice President
Engineering Affairs Division

7430 Second Avenue
Suite 300
Detroit, Michigan 48202
(313) 872-4312 FAX: (313) 872-5405

Founded: 1913

Type of Organisation Trade Association
Works through other organizations to develop standards and develops standards unique to auto industry.

Scope Manufacturers of passenger and commercial cars and light trucks. Conducts research projects; collects historical facts and figures; compiles statistics; monitors, evaluates and responds to federal and state legislation and regulatory activity dealing with motor vehicles and their use; and coordinates actions on occupational safety and health.

Standardization Activities The Association is a member of ANSI and participates in standards development related to motor vehicles, workplace health and safety, motor vehicle systems and traffic accident reporting. The Association participates in the Organization Internationale des Constructeurs d'Automobiles related to vehicle regulations.

Formerly Motor Vehicle Manufacturers Association (1992)
Automobile Manufacturers Association (1972)
National Automobile Chamber of Commerce

Keywords automobiles; automotive; light trucks; cars; transportation; workplace; accident reporting;

AMERICAN BEARING MANUFACTURERS ASSOCIATION

Brian T. Borders, President

1200 19th Street, NW
Suite 300
Washington, DC 20036
(202) 429-5155
Founded: 1933

FAX: (202) 663-7543
Standards Staff: 3

Type of Organization	Trade Association Standards Developer
Standards Development	30 active standards.
Standards Designation	ANSI/ABMA prefix.
Certification	No certification, qualification, or accreditation programs
Secretariats	Accredited Standards Committee B3 operating under ANSI procedures. U.S. TAG for IS/TO 4 and subcommittees SC 3, SC 6, SC 9, SC 10, SC 11. International Secretariat for IS/TO 20/SC 15, Airframe Bearings.
Scope	Membership comprised of manufacturers of ball bearings, roller bearings, balls, rollers, spherical plain bearings, and major components.
Standardization Activities	Develops ANSI/ABMA standards.
Availability	Directly and through ANSI, IS, and Global.
Formerly	Anti-Friction Bearing Manufacturers Association (1993)
Keywords	ball bearings; roller bearings; machinery;

AMERICAN BOAT AND YACHT COUNCIL

C. T. "Skip" Moyer, III, Executive Director

3069 Solomon's Island Road
Edgewater, Maryland 21037-1416
(410) 956-1050

FAX: (410) 956-2737

Founded: 1954

Standards Staff: 5

**Type of
Organization**

Technical Society
Standards Developer

**Standards
Development**

70 standards currently active.
8 processed through ANSI.
25 project technical committees.
220 committee members are active in standards development.

**Standards
Designation**

ABYC prefix, e.g., ABYC E-9 Direct Current
(DC) Electrical Systems on Boats.

**Government
Adoption**

U.S. Coast Guard references ABYC standards.

Scope

An independent, nonprofit, membership organization representative of recreational boating including members from industry, insurance, Government, and the boating public. Membership consists of 3100 individuals, corporations and associations.

**Standardization
Activities**

Develops safety standards and recommended practices for the design, construction, equipage, and maintenance of boats and their related accessories. Standards are generated by project technical committees and reviewed by the ABYC Technical Board and Board of Directors prior to publication. Standards provide a basis for certification programs of other organizations and are used as source material by the U.S. Coast Guard in their development of safety regulations under the Boating Safety Act of 1971. ABYC standards have served as the basis for 30 ISO standards.

Individual members work voluntarily through committees and boards to implement the boating safety standards program. In addition, liaison is maintained with other organizations by means of memberships on NFPA 302, Subcommittee on Motor Craft; SAE Marine Technical Committee; UL Marine Engineering Council; National Safe Boating Council; National Boating Safety Advisory Council; Rules of the Road Advisory Council; ASTM F-15.10, Gasoline Containers for Consumer Use; and ISO/TC 188 Small Craft.

Availability

Distributed directly.

Keywords

boats; boating safety; transportation; recreation;

AMERICAN BOILER MANUFACTURERS ASSOCIATION

Russell N. Mosher, President

950 North Glebe Road, Suite 160
Arlington, Virginia 22209
(703) 522-7350 FAX: (703) 522-2665
e-mail: 76041,2623@compuserv.com

Founded: 1888 Standards Staff: 1

Type of
Organization

Trade Association

Scope

Manufacturers of boilers and allied equipment; compiles statistics and conducts training programs.

Standardization
Activities

Maintains a Technical Committee. Publishes a lexicon of industry terminology, water quality, steam quality and accessory product definitions.

Availability

Distributed directly.

Formerly

American Boiler Manufacturers Association and Affiliated Industries (1960)

Keywords

boilers; heating; industrial equipment; steam generators;

AMERICAN BOWLING CONGRESS/WOMEN'S INTERNATIONAL BOWLING CONGRESS

Dan Speranza, Manager

Equipment Specification Department
5301 South 76th Street
Greendale, Wisconsin 53129-1127
(414) 421-6400 FAX: (414) 421-1194

Founded: 1895 Standards Staff: 7

Type of
Organization

Trade Association
Standards Developer

Certification

All bowling lanes under the jurisdiction of the ABC/WIBC are certified annually by representative of local bowling associations chartered by ABC/WIBC. Lanes are measured and checked to ensure that physical properties and dimensions correspond to ABC/WIBC specifications. When found to meet all specifications, an ABC/WIBC decal is issued for posting in the establishment.

Scope A nonprofit, noncommercial, membership service organization for male bowlers (ABC) and female bowlers (WIBC). Sponsors competitions; provides standard rules and tests. Approves material and equipment.

Standardization Activities Instrumental in developing specifications for playing equipment worldwide. Maintains an equipment testing and research department that works with new products brought to it for consideration, and also maintains a constant check on products already in use. Publishes equipment specifications annually in the ABC Constitution, Rules and Specifications. Standard developed for lanes, bowling balls, pins, pinsetting machines, automatic scorers, and foul detectors. Equipment specifications are printed annually in the ABC Constitution, Rules and Specifications book.

Availability Distributed directly.

Formerly Absorbed the United States Seniors Bowling Association (1964)

Keywords bowling; recreation;

AMERICAN BRUSH MANUFACTURERS ASSOCIATION

Taylor Fernley, Managing Director

1900 Arch Street
Philadelphia, Pennsylvania 19103
(215) 564-3484 FAX: (215) 564-2175

Founded: 1918 Standards Staff: 2

Type of Organization Trade Association
Standards Developer

Standards Designation ANSI B165.1 and B165.2.

Scope The national trade association representing manufacturers of brushes, brooms, and mops, together with suppliers of parts, materials, machinery, and services. ABMA maintains several divisions organized by type of product including paint applicator, personal, household maintenance, broom and mop, and industrial.

Standardization Activities All current standard activities are conducted by the Safety and Standards Committee of the Industrial Division, which works closely with ANSI. The main thrust of two standards developed to date is concern with safe operation of power driven rotary wheel-type brushes. ANSI B165.1 (1979) defines safety requirements for the design, care and use of power driven brushing tools; and ANSI B165.2 (1982) covers safety requirements with wood, plastic, or composition hubs and cores.

Availability Directly from ANSI.
Keywords brushes; industrial equipment; safety;

AMERICAN BUREAU OF SHIPPING

Frank J. Iarossi, Chairman

Two World Trade Center,
106th Floor
New York, NY 10048
(212) 839-5000

FAX: (201) 839-5130

Founded: 1862

Standards Staff: 12

**Type of
Organization**

Technical Society
Standards Developer

**Standards
Development**

Established and administers standards called "Rules" for the design, construction, and periodic survey of merchant ships and other marine structures; publishes 15 volumes of Rules and 31 guides; and publishes the Record, a registry of merchant vessels.

**Standards
Designation**

ABS prefix.

**Government
Adoption**

Over 100 governments recognize ABS to act on their behalf by conducting surveys and issuing certificates relating to various international maritime conventions. ABS is authorized by USCG to act on their behalf in reviewing plans and inspecting United States flag vessels which are certified by the USCG. USCG also recognizes ABS to perform admeasurement of vessels and issue tonnage certificates on their behalf. Under the Merchant Marine Act of 1920, ABS is recognized as a United States Government agency for classification of merchant vessels that it may own.

Certification

ABS has separate volumes of Rules and Requirement for the Certification of Cargo Containers and for Cargo Gear. Also, classification involves various certifications to provide assurance that the ABS Rules are met, such as those for design plans, machinery components, welders, etc. ABS also provides certification services according to other recognized standards or client-specified standards.

Scope An international ship classification society and nonprofit corporation. Objectives include: preparation of standards, known as "Rules" and "Guides", for the construction of hulls and machinery of ships and other marine structures, including material specifications and regulations for periodic surveys. Standards published annually and modified to keep pace with developments in shipbuilding and marine engineering; analysis of plans for vessels projected to be built or reconversions of existing vessels to verify that they meet the standards set by the rules; verification of the building to approved plans of the new hull and its main machinery, boilers and vital auxiliaries, and the construction for hull and machinery as required by the Rules; carrying out periodic and damage surveys as called for by the Rules; annual publication of the Record of the American Bureau of Shipping, which contains essential details of hull and machinery and survey status of bureau-classed vessels; issuance of certificates of character for bureau-classed vessels, i.e., classification certificates, seaworthiness certificates, confirmation of class certificates, etc.

Standardization Activities Promulgates and annually updates its Rules through committees composed of individuals internationally eminent in their marine field.

Availability Standards distributed directly through all offices of ABS.

Formerly American Shipmaster's Association (1862-1898)

Keywords merchant ships; vessels; marine engineering; transportation; containers; safety;

AMERICAN BUS ASSOCIATION

George T. Snyder, Jr., President and CEO

1100 New York Avenue, NW, Suite 1050
Washington, DC 20005-3934

(202) 842-1645

FAX: (202) 842-0850

Founded: 1926

Standards Staff: 3

Type of Organization

Trade Association
Works through other organizations to develop standards

Representation

Department of Transportation, Interstate Commerce Commission

Scope A trade organization of the intercity bus industry with more than 700 motor coach owner and tour company members in the United States, Canada and Mexico. Its members operate charter, tour, regular route, airport express, special operations and contract services. Another 2300 members are travel and tourism organizations and suppliers of bus products and services who work in partnership with the North American motor coach industry.

Standardization Activities Concerned with the development of standards and requirements in matters affecting motor carrier and motor vehicle safety and occupational safety and health. Included are operation, maintenance, and inspection of vehicles, safety-related parts and accessories such as brakes, tires, lights, windows, seats, etc.; control of noise and pollutant emissions; and accident reporting. Cooperates with the U.S. Department of Transportation, and participates in the work of voluntary groups. Works with federal and state legislative groups in connection with standardization of vehicle sizes and weights.

Also works with the Interstate Commerce Commission and other interested Government agencies, and industry groups in connection with standards and requirements relative to such matters as accounting, reporting of financial and operating data, certification of operating authorities, and vehicle registration.

Association committees and staff representatives are primarily responsible for its standardization activities. Included are committees on Safety and Ethics.

Formerly Motor Bus Division of American Automobile Association
National Motor Bus Division of American Automobile Association
National Association of Motor Bus Operators (1960)

Keywords bus transportation; transportation; vehicles; motorcoach tours; charters; intercity bus;

AMERICAN CHAIN ASSOCIATION

Robert A. Reinfried, Executive Secretary

9384-D Forestwood Lane
Manassas, VA 22110
(703) 330-7079

FAX: (703) 330-7984

Founded: 1981

Type of Organization Trade Association
Works through other organizations to develop standards

Representation 7 members active in ACA standardization serving on ASME, ANSI, and ISO standards committees

Scope Manufacturers of sprocket-driven chain and sprockets for power transmission and the conveyance of materials.

Standardization Activities Active in standardization of dimensions of roller, silent, engineering steel and malleable iron chains, sprockets and wheels for the purpose of securing interchangeability, and also in recommendations for standards for power capacity and speed for these chains. Does not publish standards, preferring to sponsor standards for adoption through the procedures of the American National Standards Institute (ANSI). Cooperates with the American Society of Mechanical Engineers, Society of Automotive Engineers, American Petroleum Institute, Conveyor Equipment Manufacturers Association, and the American Gear Manufacturers Association in standardization matters of mutual interest. ANSI standards covering chain include B29.1 through B29.25M. Participates in the work of Technical Committee 100 of the International Organization for Standardization.

Formerly Association of Roller and Silent Chain Manufacturers and Malleable Chain Manufacturers Institute
American Chain Sprocket Chain Manufacturers Association

Keywords chain; sprockets; power transmission; machinery;

AMERICAN CHEMICAL SOCIETY

COMMITTEE ON ANALYTICAL REAGENTS
Clarence Lowery, Chairman

c/o Books Department
American Chemical Society
1155 Sixteenth Street NW.
Washington, DC 20036
(202) 872-4600 FAX: (202) 872-4600
WWW: <http://www.acs.org/>

Founded: 1876 Standards Staff: 3

Type of Organization Scientific Society
Standards Developer

Standards Development 63 existing standards for reagents; 15-30 under development or revision.
None processed through ANSI.

Standards Designation ACS prefix.

Scope Sets standards by which manufacturers can classify their reagents for sale as ACS Grade. Reagents labeled as such are known to purchasers to be of a certain purity and to meet certain maximum and minimum requirements.

Standardization Activities Develops and publishes standards for reagent chemicals that have utility in analytical chemistry work. Revises existing standards with new and improved methods. Considers new standards for additional useful reagents. Standards and revisions are available for review by nonmembers. Publishes specifications in a volume titled "Reagent Chemicals" at approximately 5-year intervals.

Availability Distributed directly.

Formerly Committee on the Purity of Chemical Reagents (1903-27)

Keywords chemicals; reagents; analysis; testing; materials;

AMERICAN COLLEGE OF SURGEONS

Paul A. Ebert, MD, Director

55 East Erie Street
Chicago, Illinois 60611
(312) 664-4050 FAX: (312) 440-7014

Founded: 1913

Type of Organization Professional Medical Society
Standards Developer

Standards Development The national organization responsible for the standardization and approval of hospital cancer programs in the United States.

Scope An association of 54 000 surgeons organized for the primary purpose of improving the quality of care for the surgical patient by elevating the standards of surgical education and practice.

Standardization Activities Cooperates with other recognized national medical organizations in the accreditation of hospitals and in the approval of graduate training programs in general surgery and the surgical specialties. Active in the establishment of medical instrumentation standards through its representative who serves on a committee of AAMI.

Availability Distributed directly.

Keywords medical care; surgery; medical training; cancer; medical treatments; trauma;

AMERICAN CONCRETE INSTITUTE

Paul C. Breeze, Director of Engineering

22400 West Seven Mile Road
Detroit, Michigan 48219
(313) 532-2600

FAX: (313) 538-0655

Founded: 1905

Standards Staff: 6

Type of Organization Technical Society
Standards Developer

Standards Development Standards Developer since 1906; 30 active standards, including 3 metric, plus 130 committee reports; 3000 members participate in standards activities; most standards processed through ANSI; draft standards available for review.

Standards Designation ACI prefix.

Government Adoption The Department of Defense has adopted a number of ACI standards.

Certification ACI administers the following certification programs: Concrete Field Testing Technician, Grade I; Concrete Laboratory Testing Technician, Grades I and II; Concrete Construction Inspector-in-Training; Concrete Construction Inspector, Concrete Transportation Inspector In-Training; Concrete Transportation Construction Inspector, Concrete Flatwork Finisher, and Concrete Flatwork Technician.

ACI accredits equivalent certification programs administered by other organizations.

Scope Devotes its efforts to the solution of technical requirements related to the design, construction, and maintenance of concrete and reinforced concrete structures, and to the dissemination of information in this field.

Standardization Activities One hundred and ten technical committees study specialized problems through the evaluation of published information, research reports, and majority opinion based on field practices, leading to the development of committee reports. Many committee reports evolve into standards after technical review and discussion by the membership and letter ballot of the members.

Standards are confined to codes, specifications, and standards practices related to structures as a whole. Basic materials and "over-the-counter" components are deliberately excluded from the scope of its standardization procedures.

Availability Distributed directly and through Global and IHS.

Formerly National Association of Cement Users (1913)

Keywords concrete; reinforced concrete; prestressed concrete; structural design; construction; restoration; repair;

AMERICAN CONCRETE PAVEMENT ASSOCIATION

M.J. Knutson, P.E., President/CEO

3800 North Wilke Road
 Suite 490
 Arlington Heights, Illinois 60004
 (708) 966-2272 FAX: (708) 394-5610

Founded: 1964 Standards Staff: 2

Type of Organization Trade Association
 Standards Developer

Scope Represents 500 construction firms, material suppliers and equipment manufacturers on matters affecting the industry's relations with the public and public agencies. Seeks to improve the quality of concrete pavement and create new markets for members.

Standardization Activities Prepares guide specifications on concrete pavement construction, fast track concrete paving, rehabilitation, resurfacing, and restoration. Cooperates with state, federal and local agencies in reviewing their specifications. Provides upon request recommendations regarding concrete pavement design and construction.

Keywords concrete; pavement; construction; materials;

AMERICAN CONCRETE PIPE ASSOCIATION

Jeffrey I. Enyart, President

8618 Westwood Center Drive, Suite 105
Vienna, Virginia 22182
(703) 821-1990 FAX: (703) 821-3054
e-mail: jenyart@ix.netcom.com

Founded: 1907 Standards Staff: 2

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Representation

ASTM, AASHTO, AREA

Scope

An international trade association representing the precast concrete pipe industry. Activities include research, technical services, promotion, advertising, education, safety, and the publication of technical and industry information. Members produce concrete pipe, box sections, and related products for storm sewers, sanitary sewers, and culverts; drain tile; irrigation systems; and low-head pressure systems.

**Standardization
Activities**

Not a standards developing organization, but works within the voluntary standards system to coordinate concrete pipe industry standards activities and acts as the industry voice.

Industry-related products are covered by national consensus standards developed by ASTM, AASHTO, and AREA. Manufacturing standards cover precast concrete products, such as non-reinforced pipe for sewers, culverts, drain tile, and irrigation; reinforced circular, arch and elliptical pipe, box sections, and manholes for sewers and culverts; reinforced circular pipe for low-head pressure systems; and perforated pipe. Other manufacturing standards cover joints, jointing materials, and resilient connectors for pipe to structure connections. Proof of design and quality assurance are covered by plant test methods standards. Acceptance of installed products is covered in standards practices for various field tests. Design standards for pipe and box sections cover determination of loads, stresses, and required structural strength.

Keywords

sewer; culvert; irrigation; drain tile; construction;

AMERICAN CONCRETE PRESSURE PIPE ASSOCIATION

David P. Posser, President

8618 Westwood Center Drive, Suite 105
Vienna, Virginia 22182
(703) 839-4350 FAX: (703) 821-3054

Founded: 1949 Standards Staff: 2

**Type of
Organisation**

Trade Association
Works through other organizations to develop standards

Representation

Primarily ASTM and AWWA

Scope

An international trade association representing the concrete pressure pipe industry. Activities include research, technical services promotion, public relations, advertising, education, and liaison with technical societies and government agencies. Its members produce precast concrete pressure pipe for transmission lines in irrigation, industrial and domestic water-supply systems, as well as distribution feeder mains, pressure siphons, sewer force mains, and sewer outfall lines.

**Standardization
Activities**

Not a standards developing organization, but works within the voluntary standards system to coordinate concrete pressure pipe industry standards activities and acts as the industry voice.

Products of the industry are covered by national consensus standards developed by the American Society for Testing and Materials (ASTM) and the American Water Works Association (AWWA). Manufacturing standards cover reinforced concrete pressure pipe, reinforced concrete cylinder pipe, pretensioned concrete cylinder pipe, and prestressed concrete cylinder pipe.

Keywords

water-supply; sewage; construction;

AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS

Richard A. Strano, Executive Director

1300 Kemper Meadow Drive
Suite 600
Cincinnati, Ohio 45240
(513) 742-2020 FAX: (513) 742-3355

Founded: 1938 Standards Staff: 2

Type of Organization	Professional Society Standards Developer
Standards Development	Standards developer since 1940's. 750 Documentations defining Threshold Limit Values and Bio-Indices.
Government Adoption	Various federal agencies, including OSHA, Department of Labor.
Secretariats	Threshold Limit Values for Chemical Substances Committee. Threshold Limit Values for Physical Agents Committee. Industrial Ventilation Committee.
Scope	A national professional association of practicing industrial hygiene and occupational and environmental safety and health personnel. Assembles guides, recommends practices, and develops technical background for the evaluation and control of the occupational environment.
Standardization Activities	Develops and annually revises the Threshold Limit Values which are recommended on airborne contaminants and physical agents in workplaces. Used by professionals with direct responsibilities for worker health protection. Publishes the Industrial Ventilation Manual of Recommended Practices.
Availability	Sold directly in paper and CD-ROM.
Keywords	industrial hygiene; airborne contaminants; occupational safety; Threshold Limit Values; Bio-Indices; industrial ventilation; public health; government officials;

AMERICAN CONGRESS ON SURVEYING AND MAPPING

John Lisack, Executive Director

5410 Grosvenor Lane
Bethesda, Maryland 20814
(301) 493-0200 FAX: (301) 493-8245

Founded: 1941

Type of Organization	Professional Society Works through other organizations to develop standards
Certification	Hydrographic Surveyor Certification Program since 1984.
Scope	A national professional association representing 11000 members in the fields of surveying and mapping; composed of three member organizations: National Society of Professional Surveyors (NSPS),

American Association for Geodetic Surveying (AAGS), and American Cartographic Association (ACA).

**Standardization
Activities**

Cooperates with ASCE, ANMC, International Cartographic Association (ICA) and International Federation of Surveyors (FIG) to promote standards in the fields of land and geodetic surveying and cartography.

Developed 1989 Digital Cartographic Data Standards. Works voluntarily through committees.

Keywords

surveying; mapping; cartography; data processing;

AMERICAN CRYSTALLOGRAPHIC ASSOCIATION

Marcia J. Vair, Administrative Secretary

P.O. Box 96
Ellicott Station
Buffalo, New York 14205-0096
(716) 856-9600 ext. 321 FAX: (716) 852-4846

Founded: 1949

**Type of
Organization**

Scientific Society
Standards Developer

Scope

Promotes the study of the arrangement of atoms in matter, its causes, its nature, its consequences, and the tools and methods used in such studies.

**Standardization
Activities**

The Apparatus and Standards Committee has promulgated standards for camera tracks and bases and has adopted dimensional specifications for goniometer heads.

An ACA appointed representative serves as a liaison to the National Institute for Standards and Technology for the issuance of Crystal Data. This publication provides a complete list of crystalline substances as identified from unit cell dimensions.

Availability

Distributed directly.

Formerly

Merger of the Crystallographic Society of America and the American Society for X-Ray and Electron Diffraction

Keywords

crystals; crystallography; instruments; testing;

AMERICAN DAIRY PRODUCTS INSTITUTE

Dr. Warren S. Clark, Jr., Chief Executive Officer

130 North Franklin Street
Chicago, Illinois 60606
(312) 782-4888

FAX: (312) 782-5299

Founded: 1923

Standards staff: 2

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1923 for evaporated milk products, testing, and sanitation, since 1925 for dry milk products, and since 1971 for whey products.

**Government
Adoption**

The U.S. Department of Agriculture has adopted industry-recommended standards for grades of nonfat dry milk, instant nonfat dry milk, dry whole milk and dry buttermilk. Developed common and usual names for whey and whey products that have been accepted by the FDA and were published as a Regulation in the Federal Register of September 4, 1981 (Vol. 46, No. 172, pp. 44434-42).

Certification

No certification, qualification, or accreditation programs.

Scope

A national trade association for the processed dairy products industry. Scope of activity includes evaporated and dry milk products, as well as whey and modified whey products, including lactose (milk sugar). Serves and promotes the interests of its members; enhances the acceptance and utilization of processed dairy products, maintains liaison and represents the industry in dealings with governmental agencies and legislative bodies; supports technical and marketing research; and assembles and disseminates statistics and other information.

**Standardization
Activities**

Activities coordinated through Standards/Research Committee. Develops standards in the areas of product definitions/nomenclature; specifications and grade classifications; and sanitation for processed dairy products including evaporated milk, evaporated lowfat milk, evaporated skim milk, and evaporated filled milk; nonfat dry milk, instant nonfat dry milk, dry whole milk and dry buttermilk; whey, reduced lactose whey, reduced minerals whey, whey protein concentrate, and lactose. Accepted by the industry nationally and internationally. Cooperates with the Food and Drug Administration and the Department of Agriculture. Participates in the Codex Alimentarius program.

Formerly ADPI is the result of a 1986 merger of the American Dry Milk Institute (1925) and the Whey Products Institute (1971). In 1987, the Evaporated Milk Association (1923) merged with ADPI.

Keywords milk; milk products; whey; whey products; lactose; food;

AMERICAN DEFENSE PREPAREDNESS ASSOCIATION

Lawrence F. Skibbie, President

Two Colonial Place
2101 Wilson Boulevard
Arlington, Virginia 22201-3061
(703) 522-1820 FAX: (703) 522-1885

Founded: 1919

Type of Organization Technical Society
Works through other organizations to develop standards

Representation Primarily DoD and defense-related industry.

Scope Concerned citizens, military personnel, and engineers interested in industrial preparedness for the national defense of the United States.

Standardization Activities Coordinates standards through programs, papers, symposia, panels. Works closely with government officials to develop standards, particularly in areas of engineering documentation and quality assurance.

Formerly Army Ordnance Association (1947)
American Ordnance Association (1973)

Keywords national security; defense;

AMERICAN DENTAL ASSOCIATION

Sharon Stanford, Assistant Director, Dental Standards and Guidelines, Council on Scientific Affairs

211 East Chicago Avenue
Chicago, Illinois 60611
(312) 440-2509 FAX: (312) 440-2536
e-mail: stanfors@ada.org

Founded: 1859

Standards Staff: 4

Type of Organization	Professional Society Standards Developer
Standards Development	Specifications and certification program since 1928. 53 active standards - all American National Standards. Working projects underway for 89 specifications. Draft standards available for comment.
Standards Designation	ANSI/ADA prefix.
Government Adoption	The Department of Defense has adopted 3 standards.
Certification	Acceptance program based upon physical standards or guidelines; proof of biological, and clinical safety and effectiveness.
Secretariats	U.S. TAG for ISO/TC 106 Dentistry. Working Group 2, Prosthodontic Materials of ISO/TC 106. Accredited standards Committee MD156 (ASC MD156).
Scope (ASC MD156)	Nomenclature, standards and specifications for dental materials, except those recognized as drugs. Nomenclature, standards and specifications for dental instruments, equipment and accessories used in dental practice, dental technology and oral hygiene which are offered to the public or profession. Orthodontic, prosthetic, and restorative appliances designed or developed by the dentist for an individual patient are excluded.
Standardization Activities	Council on Scientific Affairs, acts as administrative secretariat and sponsor activities of ASC MD 156. The ADA also sponsors participation in ANSI activities of the International Organization for Standardization Technical Committee 106 on Dentistry. The ADA works both nationally and internationally in the formulation of standards for dental materials, instruments and equipment.
Availability	Distributed through ANSI.
Formerly	National Dental Association (1897-1922) Absorbed: Southern Dental Association (1897)
Keywords	dentistry; dental materials, instruments and equipment; medical devices; health care;

AMERICAN DESIGN DRAFTING ASSOCIATION

Rachel Howard, Executive Director

P O Box 799
Rockville, Maryland 20848-0799
(301) 460-6875 FAX: (301) 460-8591

Incorporated: 1959

Type of Organization Professional Association
Works through other organizations to develop standards

Scope Conducts educational programs relating to management, administration, performance, and instruction of design/drafting; sponsors councils; conducts an annual convention/exposition. Over 2000 members engaged in the manual and/or automated design and drafting fields.

Standardization Activities Maintains a Standards Committee which reviews ANSI proposed standards relating to the design/drafting fields. Submits comments to ANSI relating to proposed and existing standards. Informs the membership of the release, cost, and availability of new standards.

Keywords design; drafting; interactive graphics; documentation; configuration management; change control; metric; data processing;

AMERICAN ELECTROENCEPHALOGRAPHIC SOCIETY

Jacquelyn T. Coleman, Executive Director

One Regency Drive
P.O. Box 30
Bloomfield, Connecticut 06002
(203) 243-3977 FAX: (203) 286-0787

Type of Organization Professional Society
Standards Developer

Scope Furthers the knowledge of electroencephalography and related sciences, and promotes the exchange of scientific and professional information and opinions throughout the world.

Standardization Activities Works to establish uniform standards, techniques, and procedures; assists in setting up standards for training, examination, and qualification of clinical electroencephalographers and techni-

cians; draws up minimum specifications for apparatus and equipment to maintain high clinical standards.

Availability Distributed directly.

Keywords medical instruments; electroencephalography; neurology; health care;

AMERICAN ELECTROPLATERS AND SURFACE FINISHERS SOCIETY

Ted Witt, CEF, Executive Director

12644 Research Parkway
Orlando, Florida 32826
(407) 281-6441 FAX: (407) 281-6446

Founded: 1909

Type of Organisation Scientific Society
Works through other organizations to develop standards

Representation ASTM, ANSI, ISO

Scope Promotes all aspects of electroplating and surface finishing.

Standardization Activities Participates in standards development pertaining to electroplated coatings. Relies on work of American Society for Testing and Materials (ASTM), Committee B-8 on Electrodeposited Metallic Coatings, and endorses the standards prepared by Committee B-8 whose members are members of the American Electroplaters and Surface Finishers Society. Maintains formal representation on ASTM Committees A-5 on Corrosion of Iron and Steel, D-19 on Industrial Water, and B-7 on the Anodic Oxidation of Aluminum and Magnesium Alloys, as well as American National Standards Institute Committee Z9 on Safety Codes for Exhaust Systems. Holds Secretariat of ISO/TC 107.

Formerly National Electro-Platers Association of the United States and Canada (1913)
American Electroplaters Society

Keywords electroplating; metallic coating; materials; surface finishing;

AMERICAN FENCE ASSOCIATION

Frederick G. Dempsey, Jr., CAE, Executive
Vice President

5300 Memorial Drive
Suite 116
Stone Mountain, Georgia 30083
(404) 299-5413 FAX: (404) 299-8927

Founded: 1962

Type of Organization Trade Association
Works through other organizations to develop standards

Representation ASTM Committee F14.

Scope Serves the entire fence industry in North America and 22 foreign countries. Membership includes installer contractors, wholesalers, manufacturers, and related fence industry business.

Standardization Activities Members work with ASTM and Chain Link Fence Manufacturers Institute (CLFMI) to develop standards and specifications for fence products.

Keywords fence; construction;

AMERICAN FIBER MANUFACTURERS ASSOCIATION

Paul T. O'Day, President

1150 17th Street NW.
Washington, DC 20036
(202) 296-6508 FAX: (202) 296-3052

Founded: 1933 Standards Staff: 1

Type of Organization Trade Association
Works through other organizations to develop standards

Representation Fifteen member companies of MMFPA are represented by the Association's Technical Committee on committees and task groups of ASTM, ANSI, ANMC, and NFPA.

Scope Membership represents 90 percent of the United States producers of manmade fibers and yarns. Functions on a national scale to present the industry's position before voluntary standards groups and those government agencies that develop or reference standards applicable to the overall textile industry.

**Standardization
Activities**

Not a standards developing organization. The association represents the industry before standards groups, such as ASTM, ANSI, and NFPA, concerned with flammability standards for textile products, including apparel and home furnishing items, such as carpets, draperies, and upholstered furniture. Cooperates with NIST, including the NIST Research Associate program, to develop meaningful and relevant flammability test procedures, such as the Carpet Flooring Radiant Panel Test Method. Represents the industry before those groups which develop or reference methods and standards for other fiber/textile properties, performance and metrication. Monitors and develops appropriate actions of those government agencies which develop or reference standards impacting the man-made fiber/textile industry.

Keywords

fiber; yarn; textiles; clothing; carpet; draperies; bedding; fire protection;

AMERICAN FOREST AND PAPER ASSOCIATION

Dr. Patricia Layton, Director, Energy and Materials Policy

Standards and Metrics Department
1111 19th Street, NW
Suite 800
Washington, DC 20036
(202) 463-2700 FAX: (202) 463-5180

Founded: 1993 Standards Staff: 3

**Type of
Organization**

Trade Association
Standards Developer

Representation

AASHTO, ACI, ANSI, ASHRAE, ASAE, ASCE, ASTM, NFPA, ISO, TAPPI.

Secretariats

ANSI NDS Committee.
ASCE LRFD Committee.
U.S. TAG to ISO/TC 6 (Paper, Board and Pulp).

Scope

The American Forest and Paper Association (AF&PA) represents approximately 500 member companies and related trade associations (whose memberships are in the thousands) which grow, harvest, and process wood and wood fiber, manufacture pulp, paper and paper-board products from both virgin and recovered fiber, and produce solid wood products. As a single national association, AF&PA represents a vital national industry which accounts for over 7 percent of the total U. S. Manufacturing output.

Standardization Activities AF&PA develops design and construction guidelines and standards to ensure the broadest acceptance of wood and wood products in construction and other uses. In addition, AF&PA participates in a number of standards developing committees related to the forest products industry as a whole. These committees include: ASTM D06, Paper and Paperboard; ASTM D07, Wood Products; ASTM E50, Environmental Assessment; ISO/TC 6, Paper, Board, and Pulps; and ISO/TC 207, Environmental Management Systems. Through its participation in these committees, AF&PA contributes to the development of test methods used throughout the forest products industry and ensures that the interests of the forest products industry are fully represented in the evolving area of environmental performance standards.

Availability Standards are available directly from AF&PA.

Formerly The American Paper Institute (API - founded 1966) and the National Forest Products Association (NFPA - founded 1902) merged in 1993 to form the American Forest and Paper Association (AF&PA).

Keywords wood; wood products; construction; building; paper; pulp;

AMERICAN FOUNDRYMEN'S SOCIETY

Charles H. Jones, Executive Vice President
 505 State Drive
 Des Plaines, Illinois 60016
 (708) 824-0181 FAX: (708) 824-7848
 Founded: 1896 Standards Staff: 1

Type of Organisation Technical Society
 Standards Developer

Standards Development Standards developer since 1936.
 Three active standards developed under ANSI.

Certification No certification, qualification, or accreditation programs.

Secretariats ANSI Z241.x.

Scope An international technical society for the metalcasting industry in North America. Develops and disseminates technical information regarding metallurgy, melting, coremaking, molding, sand practice,

and control of both the internal and external environment. Sponsors research concerning all facets of the metalcasting process and environment. Through its Cast Metals Institute (CMI), prepares and presents short courses and seminars on various subjects of interest.

Standardization Activities Participates on a number of standards writing committees of both ANSI and ASTM.

Availability Available directly or through ANSI.

Formerly American Foundrymen's Association

Keywords casting; foundry; metallurgy; materials;

AMERICAN FURNITURE MANUFACTURERS ASSOCIATION

Joseph Ziolkowski, Technical Director

Post Office Box HP-7
223 Wrenn Street
High Point, North Carolina 27261
(919) 884-5000 FAX: (919) 884-5303
Founded: 1984

Type of Organization Trade Association
Works through other organizations to develop standards

Representation ASTM, ANSI, NFPA, UFAC.

Scope A voluntary organization of furniture manufacturers dedicated to fostering the growth and development of the furniture industry and improving the effectiveness and efficiency of the furniture manufacturers.

Standardization Activities Develops voluntary guidelines for woven and knit upholstery fabrics through the Joint Industry Upholstered Fabric Committee.

Works with the Upholstered Furniture Action Council (UFAC) to conduct research into more cigarette resistant furniture.

Established a Joint Industry Foam Standards Committee to develop guidelines and standards for the performance and use of urethane foam.

Developed voluntary guidelines for bunk beds through the Joint Industry Bunk Bed Committee which has now been turned over to Committee F-15 in ASTM.

Formerly National Association of Furniture Manufacturers; Southern Furniture Manufacturers Association

Keywords upholstery; textiles; furniture; consumer products;

AMERICAN GALVANIZERS ASSOCIATION

Dr. Tom Langill, Technical Director

12200 E. Iliff Avenue
Aurora, CO 80014
(800) 468-7732 FAX: (303) 750-2909
(303) 750-2900

Founded: 1935

Type of Organization Trade Association
Works through other organizations to develop standards

Representation Active on more than 15 standards committees of ASTM and NACE.

Scope Members supply over 60 percent of the galvanizing after fabrication done in North America. Aims to improve the efficiency of the industry, to encourage the application of the latest advances in technology, and to promote the wider use of hot dip galvanized products. Activities include advertising and promotion, technical services and development management advisory services, and marketing.

Standardization Activities Works within the voluntary standards system to coordinate industry standards activities and acts as the industry voice. Areas of involvement include coating standards for hot dip galvanized (zinc-coated) steel products such as: fasteners, castings, forgings, structural shapes, tanks, fencing, piping, grating, reinforcing bars, and structural plate. Represented on American Society for Testing and Materials subcommittees concerned with development and review of specifications for galvanizing and corrosion protection.

Keywords galvanizing; metallic coating; corrosion protection; materials;

AMERICAN GAS ASSOCIATION

Allen J. Callahan, Manager, Standards
International Approval Services

8501 E. Pleasant Valley Road
Cleveland, Ohio 44131
(216) 524-4990 FAX: (216) 642-3463
e-mail: jcairns@apk.net

American Gas Association
1515 Wilson Boulevard
Arlington, Virginia 22209
(703) 841-8400 FAX: (703) 841-8406
e-mail: lingels@aga.com

Founded: 1918 Standards Staff: 12

**Type of
Organization**

Trade Association
Standards Sponsor

**Standards
Development**

360 individuals active in standards development.
68 active standards.
ANSI Accredited Standards Programs.
Draft standards available for review.

International Approval Services (IAS) is a joint venture of the American Gas Association (A.G.A.) Laboratories, and CGA Approvals, Inc. in Canada. IAS-U.S. is a wholly owned subsidiary of A.G.A. IAS provides standards secretariat services on behalf of A.G.A. for ANSI Accredited Z21, Z83 and Z223 projects, and is an ANSI accredited standards developer for LC and NGV projects. ANSI Accredited Z380 and B109 projects are managed directly by A.G.A.

**Standards
Designation**

ANSI Z21.x.
ANSI Z83.x.
ANSI Z223.x.
ANSI B380.x.
ANSI B109.x.
ANSI LC x.
ANSI NGV x.

Secretariats

Accredited Standards Committee Z21, Performance and Installation of Gas-Burning Appliances and Related Accessories, and its 19 technical subcommittees.

Accredited Standards Committee Z83, Industrial Gas Equipment Installation and Utilization, and its five technical subcommittees.

Accredited Standards Committee Z223, National Fuel Gas Code, and its four advisory groups.

Accredited Standards Committee #109, Gas Displacement Meters and Service Regulators

Accredited Standards Committee 2380, Gas Piping Technology.

Certification

IAS maintains testing facilities in Cleveland, Ohio, Irvine, California, and Toronto, Ontario, Canada. Engineering Centers provide regional testing and follow-up inspection services and are located in North Carolina, Tennessee, Texas, and British Columbia, Canada. IAS is a nationally recognized third party certification agency. Gas, electric and oil equipment, and natural gas vehicle (NGV) equipment submitted voluntarily by manufacturers are tested for compliance with the applicable national standards. In the absence of a national standard, IAS develops IAS Requirements for one-of-a-kind products. Products complying with these requirements also receive design certification. Products found in compliance with the standards/requirements can display the A.G.A. and CGA seals of design approval or listing symbol, and are included in the IAS Directory of Certified Appliances and Accessories. The production of certified equipment is monitored by regular follow-up factory inspections.

IAS also provides services in accordance with ISO 9000, and environmental management system registration in accordance with the ISO 14000 series standards.

Scope

A trade association composed of about 300 natural gas distribution, transmission, gathering and marketing companies in North America, which together account for more than 90 percent of the natural gas delivered in the United States. In addition, 30 natural gas organizations from countries around the world participate in A.G.A.'s international program.

**Standardization
Activities**

Works within the voluntary standards system to coordinate activities relative to national standards of interest to the gas industry. While not a standards developing organization, the Association actively participates in national standards development, including appointment of Association representation in the areas of gas utilization equipment and its installation, and gas operating equipment and supplies.

Functions as the Administrative Secretariat to five Committees whose operating procedures are accredited by ANSI as demonstrating the principles of due process and consensus. These five committees have 30 technical subgroups; supervise 49 standards covering residential gas appliances and accessories, 14 standards covering commercial and industrial gas equipment, three standards on gas displacement meters, one pending standard on service regulators, a standard covering the installation of gas piping, appliances and appliance venting, and a standard guide for Gas Transmission and Distribution Piping Systems.

In addition, IAS supervises one "LC" standard for corrugated stainless steel house piping, one pending "LC" standard for agricultural heaters, three "NGV" (natural gas vehicle) equipment standards, and eight pending "NGV" standards.

80 A.G.A. members and 26 staff participate in standardization activities of 62 standards developing committees of other organizations, including ASTM, ASME, NFPA, API and a number of American National Standards Committees.

Availability Standards distributed by A.G.A. and through ANSI, IHS and Global.

Formerly A.G.A. was formed by merger of the Gas Institute and National Commercial Gas Institute.

IAS is a joint venture of the A.G.A. laboratories and CGA Approval, Inc.

Keywords fuel gas; natural gas; energy; building; consumer products; appliances;

AMERICAN GEAR MANUFACTURERS ASSOCIATION

Joe T. Franklin, Jr., Executive Director

1500 King Street
Suite 201
Alexandria, Virginia 22314
(703) 684-0211 FAX: (703) 684-0242
e-mail: agma@clark.net

Founded: 1916 Standards Staff: 2

Type of Organization Trade Association
Standards Developer

Standards Development 35 committees, and 200 members participate in standards.
60 active standards; 37 processed through ANSI.
Draft standards and revisions available for review by interested parties.

Standards Designation	AGMA prefix.
Secretariats	Secretariat to ISO/TC 60. U.S. Technical Advisory Group to ISO/TC 60.
Scope	Membership includes a majority of the principal manufacturers of gears, speed reducers and increasers in the United States and Canada. Develops standards to promote a common language for the industry. Scope has increased to developing a wide variety of public and economic programs which assist member companies to compete more effectively. Through the Administrative Division supports 6 Councils concerning itself with marketing programs, public and government affairs as well as statistical information services.
Standardization Activities	Standards cover such areas as: gear industry nomenclature; gear specification drawings; hobs and shaper-cutters; application classification of gear motors and other types of speed reducers; standards on tooth form geometry; strength and durability formulas; inspection methods and practices; gear blank materials; lubrication of open or enclosed gearing; design and rating of speed reducers; spur, helical, herringbone, worm, bevel, fine pitch, aerospace gears. Standards committees are listed in the Annual AGMA Directory. Maintains liaison with the American National Standards Institute, American Society of Mechanical Engineers, Society of Automotive Engineers, Metal Cutting Tool Institute, Cooling Tower Institute, Machinery and Allied Products Institute, National Machine Tool Builders Association, American Petroleum Institute, and other technical organizations. Participates in the International Organization for Standardization (ISO), through the facilities of ANSI. Also cooperates with the Federal Government in standardization activities.
Availability	Sold directly and through IHS and Global.
Keywords	gears; gearing; speed reducers; gearmotors; lubrication; gear design; machinery;

AMERICAN HARDBOARD ASSOCIATION

C. Curtis Peterson, Executive Vice President

1210 W. Northwest Highway
Palatine, Illinois 60067
(708) 934-8800

FAX: (708) 934-8803

Founded: 1976

Standards Staff: 4

**Type of
Organization**

Trade Organization
Standards Developer

**Standards
Development**

Standards developed through: ANSI.

**Standards
Designation**

ANSI/APA prefix.

**Government
Adoption**

Government references ANSI/AHA standards in Government standards and guide specifications.

Certification

Quality Conformance Programs for Hardboard Siding based upon ANSI 135.6.

Scope

Represents manufacturers of hardboard products used for exterior siding, interior wall paneling, household and commercial furniture, and industrial and commercial products. Serves as the central clearing house on industry and technical information for architects, builders, contractors, distributors, dealers, government agencies, and the general public. Coordinates industry effort for statistical reports, standard/specification programs, research activities, building codes, environmental affairs, educational publications, manufacturing and safety activities, and governmental relations.

**Standardization
Activities**

Develops standards for hardboard, hardboard prefinished paneling, hardboard siding, and fiberboard products. Works with building code organization for effective utilization of these products. Administers a quality conformance program for hardboard siding.

Availability

Sold directly and through ANSI.

Keywords

hardboard; fiberboard; building; materials;

AMERICAN HELICOPTER SOCIETY

M. E. Rhett Flater, Executive Director

217 North Washington Street
Alexandria, Virginia 22314
(703) 684-6777 FAX: (703) 739-9279

Founded: 1943 Standards Staff: 1

Type of Organization Professional Society
Works through other organizations to develop standards

Representation DoD, FAA, NASA, SAE, International Civil Aviation Organization (ICAO), JAA and other organizations.

Scope A technical professional organization dedicated to the advancement of all types of vertical flight technologies. Membership includes all the major helicopter air frame, engine, and systems manufacturers worldwide. Provides the principal forum for the exchange of technical information pertaining to the realm of vertical flight. Representation includes military and civil, governmental and educational institutions and activities. Maintains a specialized technical reference library.

Standardization Activities Maintains 13 technical committees with interests in acoustics, aerodynamics, aircraft design, avionics and systems, crash safety, commercial aerodynamics, operators, dynamics, handling qualities, icing manufacturing and product assurance, propulsion, structures and materials, test and evaluation, crew stations and human factors, flight simulation, military operations, and product support.

Keywords vertical flight; helicopter; rotorcraft; aerodynamics; aeronautics; propulsion; avionics; acoustics; defense; aerospace; transportation;

AMERICAN HOSPITAL ASSOCIATION

Douglas S. Erickson, Director Design and Construction

Office of Health Facilities Management
One North Franklin Avenue
Chicago, Illinois 60606
(312) 422-3858 FAX: (312) 422-4571

Founded: 1898

Type of Organization Trade/Professional Association
Works through other organizations to develop standards

Representation National Institute of Standards and Technology, Agencies within the Department of Health and Human Services and the Department of Labor, ANSI, NFPA, ASTM, EPA, OSHA and others.

Scope Provides education, research, and representation services for 5000 hospitals, health care systems, networks and other providers.

Standardization Activities The Office of Health Facilities Management has the primary responsibility for codes and standards advocacy activities related to hospital planning, design, engineering, equipment, supplies and facilities management. Maintains liaison with national organizations and government agencies concerned with the development of standards. Major goal is the development of standards which are based on knowledge, cost/benefit analysis and a statistical profile establishing need.

Liaison activities include recommendation, review, revision and testimony on standards. Actively participates in the development of standards for: fire and life safety; hospital engineering; equipment and facilities; infection control; hospital supplies; and environmental issues.

Keywords hospital; life safety; material management; hospital equipment; health care; facilities management;

AMERICAN HOTEL AND MOTEL ASSOCIATION

Kenneth F. Hine, Executive Vice President and Chief Executive Officer

1201 New York Avenue, NW
Washington, DC 20005-3917
(202) 289-3100 FAX: (202) 289-3104

Founded: 1910 Standards Staff: 2

Type of Organization Trade Association
Works through other organizations to develop standards

Representation ANSI, ASTM, UL.

Scope An international trade association representing the hotel and motel industry with primary efforts directed to the United States.

**Standardization
Activities**

Cooperates with other organizations in standards development. Adoption of any standards by an individual hotel/motel property is solely on a voluntary basis. Maintains liaison with the National Fire Protection Association, the National Institute of Standards and Technology, the National Institute of Building Sciences and the U.S. Fire Administration and the American Society for Testing and Materials. Works with the National Legislative Conference on Arson to support arson control.

Involved in code activities of Building Officials and Code Administrators International, International Conference of Building Officials, National Conference of States on Building Codes and Standards, Southern Building Code Congress International, and Western Fire Chiefs Association.

Active in ASME's development of USA Standards Safety Code for Elevators, Dumbwaiters, and Escalators; and USA Recommended Practice for the Inspection of Elevators. Represented on various committees of ANSI, ASTM, and UL.

Formerly

American Hotel Protective Association (1917)
American Hotel Association (1952)

Keywords

hotels; motels; safety; fire protection;

AMERICAN INDUSTRIAL HYGIENE ASSOCIATION

O. Gordon Banks, Executive Director

2700 Prosperity Avenue
Suite 250
Fairfax, Virginia 22031-4311
(703) 849-8888 FAX: (703) 207-3561

Founded: 1939 Standards Staff: 2

**Type of
Organization**

Professional Society
Standards Developer

Secretariats

ANSI Z9 committee.

Scope

Objectives are to increase the knowledge of industrial hygiene through interchange and dissemination of information; promote the study and control of environmental factors affecting the health and well-being of workers in the workplace; correlate such activities as are conducted by individuals and agencies throughout industrial, educational, and governmental groups; and bring together persons interested in all aspects of the profession. Acts as clearinghouse for information on occupational health and safety. Brings together members of the profession through the

formation of technical committees, local chapters and the conducting of continuing education course work and an annual meeting.

Standardization Activities This association operates as a standards developer, acting as secretariat for ANSI's Z9 committee and through comments by the association's 44 technical committees on public policy.

Keywords industrial hygiene; environmental; occupational safety; public health;

AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS

James E. French, Director of Standards

1801 Alexander Bell Drive
3rd Floor
Reston, Virginia 22091
(703) 264-7570 FAX: (703) 264-7551
e-mail: standards@aiaa.org

Founded: 1963 Standards Staff: 2

Type of Organization Professional Society
Standards Developer

Standards Development Standards developer since 1980; accredited by ANSI in 1987.
Approximately 300 participants.
30 active standards; five distinctly metric.
66 percent American National Standards.
Draft standards available for review directly.

Standards Designation Standard: ANSI/AIAA S-017-1991.
Recommended Practice: ANSI/AIAA R-004-1992.
Guide: ANSI/AIAA G-057-1994.
Special Report: A SP-069-1995.

Government Adoption Four adopted or referenced by DoD; one by DoT.

Certification No certification, qualification, or accreditation programs.

Secretariats ISO TC 20/SC 14, Space Systems and Operations.

Scope Advances the arts, sciences, and technology of aeronautics and astronautics, and nurtures and promotes the professionalism of those engaged in these pursuits. Serves the needs and professional interests of members, and improves public understanding of the profession and its contributions.

Standardization Activities Directs activities toward achieving technical understanding in advance of new aerospace hardware and software designs and development. Works closely with the Department of Defense and National Aeronautics and Space Administration, encouraging direct participation of industry, academia and Government representatives in meetings and activities of the standards committees.

Availability Distributed directly.

Formerly American Rocket Society (1930)
Institute for Aeronautical Sciences (1932)
Institute for Aerospace Science (1960)

Keywords aerospace; aeronautics; astronautics; spacecraft; launch vehicles; spacecraft; space systems;

AMERICAN INSTITUTE OF ARCHITECTS

Terrence McDermott, Executive Vice President/CEO
1735 New York Avenue, NW
Washington, DC 20006
(202) 626-7300 FAX: (202) 626-7420

Founded: 1857

Type of Organization Professional Society
Works through other organizations to develop standards

Scope Serves the needs and improves the capability of architects; conducts public relations and educational programs. Encourages the utilization of national consensus codes and standards.

Standardization Activities Maintains liaison with model building code organizations and standards writing groups within the industry. Several hundred AIA members work within the framework of the AIA Codes and Standards Committee.

Issues a variety of contract forms and formulates recommendations concerning size and character of building product literature directed to the architect. Active in development of a uniform system for correlation of a specifications outline, a filing system for product data, and project cost accounting guide.

Availability Directly and through IHS.

Keywords architecture; building;

AMERICAN INSTITUTE OF PHYSICS

Marc H. Brodsky, Executive Director

One Physics Ellipse
College Park, Maryland 20740
(301) 209-3131 FAX: (301) 209-3133

Founded: 1931

Type of Organization Scientific Society
Standards Developer

Scope A nonprofit membership corporation which promotes the advancement of physics and its application to human welfare.

Standardization Activities Standards, including Secretariats or Committees, are provided by the Acoustical Society of America and the Optical Society of America. Both are Member Societies of AIP. AIP publishes and distributes standards for the Acoustical Society of America.

Availability Distributed directly.

Keywords optics; acoustics;

AMERICAN INSTITUTE OF STEEL CONSTRUCTION

Neil W. Zundel, President

One East Wacker Drive
Suite 3100
Chicago, Illinois 60601-2001
(312) 670-2400

Founded: 1921 Standards Staff: 3

Type of Organization Trade Association
Standards Developer

Government Adoption Specifications for Structural Steel for Buildings has been widely adopted by building code bodies and Government agencies.

Scope A nonprofit trade association representing and serving the fabricated structural steel industry in the United States. Improves and advances the use of fabricated structural steel through marketing and technical research aimed at developing the most efficient, safe, and economical design and fabrication of steel framed structures.

Provides a variety of services to the construction industry, design profession, and steel fabricating companies including specifications, technical publications, design aids, research and development programs, plus informational and educational services conducted nationally, plus quality certification programs.

Standardization Activities Publishes the AISC Specification for the Design, Fabrication and Erection of Structural Steel for Buildings, and the Manual of Steel Construction. Also publishes the AISC Code of Standard Practice and a number of specifications for materials, products, and assemblies which may be used in steel framed structures. The specifications and the manual are accepted and used universally by architects, engineers, building code bodies and government agencies.

Availability Distributed directly and through IHS and Global.

Keywords steel; structural; construction; building;

AMERICAN INSTITUTE OF TIMBER CONSTRUCTION

Matthew C. Mathias, Executive Vice President

7012 S. Revere Parkway
 Suite 140
 Englewood, Colorado 80112
 (303) 792-7557 FAX: (303) 792-0669

Founded: 1952 Standards Staff: 3

Type of Organization Trade Association
 Standards Developer

Standards Development Standards developer since 1952.
 200 members have opportunity to participate in standards activities.
 15 active standards.
 One processed through ANSI.

Standards Designation AITC prefix.

Government Adoption Adopted by local, regional, and state building codes and federal government agencies.

Certification Licenses qualified timber lamination plants to mark and certify products as being in conformance with ANSI/AITC A190.1.

Secretariats ANSI/AITC A190.1.

Scope The American Institute of Timber Construction is the national technical trade association of the structural glued laminated timber (glulam) industry.

Standardization Activities AITC's standardization activities are administered by the Institute's staff with the advice and assistance of the AITC Technical Advisory Committee. In addition to industry standards related to structural glued laminated timber and heavy timber construction, AITC has used the ANSI canvass procedure to develop ANSI/AITC A190.1, "Structural Glued Laminated Timber", which is the basis for the Institute's quality control certification program. ANSI and industry standards are adopted by building code agencies to govern the use of structural glued laminated timber. Standards specify design and manufacturing requirements.

Availability Sold directly.

Keywords wood; glulam; structural; laminated timber; construction; build-

AMERICAN INSURANCE SERVICES GROUP

Gerald E. Lingenfelter, Vice President
Engineering and Safety Service

85 John Street
New York, New York 10038
(212)669-0475 FAX: (212)669-0550

Founded: 1984 Standards Staff: 12

Type of Organization Trade Association
Works through other organizations to develop standards.

Representation ANSI, ASTM, NFPA, UL, etc.

Scope This subsidiary of the American Insurance Association represents 325 companies providing commercial property casualty and liability insurance. Endeavors to reduce and control life and property losses as well as injuries, and damage to health and the environment thereby enhancing the general public's safety, health, and welfare. Publishes technical information reports on industrial safety and hygiene, fire protection, construction, crime preven-

tion, special hazards, workers' compensation, motor vehicle safety, product safety, and environmental science.

**Standardization
Activities**

Engineering and Safety Service administers standardization activities. Participates in nearly 100 standards writing committees of the American National Standards Institute, National Fire Protection Association, American Society for Testing Materials, Underwriters Laboratories Incorporated, and others that deal with the areas of fire protection, nuclear, chemical and environmental concerns, construction and construction safety, commercial motor vehicles, safety of personnel in the workplace, crime, and concerns regarding products, boilers, and machinery.

Formerly

Created by the merger of National Board of Fire Underwriters, Association of Casualty and Surety Companies, and American Insurance Association (1964); became a subsidiary in 1984.

Keywords

occupational safety; crime prevention; motor vehicle safety; fire protection; industrial hygiene; product safety; insurance; environmental science; safety; construction; loss control;

AMERICAN IRON AND STEEL INSTITUTE

Andrew G. Sharkey, III, President

1101 17th Street, NW.
Washington, DC 20036
(202) 452-7100

FAX: (202) 463-6573

Founded: 1855

Standards Staff: 2

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Three design specifications.

**Standards
Designation**

As a result of early standardization efforts of the Automobile Manufacturers Association at the beginning of this century and present work by the Society of Automotive Engineers and AISI, numerical designations of steels which only refer to chemical composition ranges and limits are often identified as AISI/SAE "Standard Steels."

Government Adoption	The design specifications are referred to in building codes and state and federal specifications for construction.
Secretariats	U.S. Technical Advisory Group for ISO Technical Committee 167 on Steel and Aluminum Structures.
Scope	Activities include research, technology, and engineering, collection and dissemination of statistics, public distribution of information about the industry and its products, public affairs, and discussion of industrial relations, including health, safety, and hygiene.
Standardization Activities	Developed and published design specifications for cold-formed steel structural members and for light-gage cold-formed stainless steel structural members. Actively supports standardization activities through participation in the work of standards boards and committees of American National Standards Institute, American Society of Civil Engineers, American Society for Testing and Materials, National Fire Protection Association, and others.
Availability	Distributed directly and through IHS and Global.
Formerly	American Iron and Steel Association (1912)
Keywords	steel; stainless steel; structural members; construction; materials;

AMERICAN LADDER INSTITUTE

Joseph E. Ziemba, Executive Director

c/o Smith, Bucklin and Associates
 401 North Michigan Avenue
 Suite 2400
 Chicago, Illinois 60611
 (312) 644-6610

FAX: (312) 321-6869

Founded: 1935

Standards Staff: 1

Type of Organization

Trade Association
 Standards Developer

Standards Development

Standards Developer since late 1930s.
 5 active standards.
 All processed through ANSI.

Standards Designation

ANSI 14.x.

Secretariats Accredited Standards Committee, A14 Ladder Safety Committee.

Scope A national trade association representing United States companies engaged in the research, development, manufacture, and safety of ladders. Represents its membership in industry matters.

Standardization Activities Promotes uniform design and manufacturer specifications and ladder safety. Works with government bodies, particularly NIOSH, OSHA and CPSC, in addressing design questions. Participates in activities related to production equipment used in making ladders. Current standards include: A14.1 Portable Wood Ladder; A14.2 Portable Metal Ladder; A14.3 Fixed Ladder; A14.5 Portable Reinforced Plastic; A14.7 Rolling Ladders; A14.8 Ladder Accessories.

Availability Sold directly through ANSI.

Keywords ladders; wood; metal; fiberglass; reinforced plastic; rolling ladder stands; industrial equipment; consumer products; safety; portable; fixed; accessories; step;

AMERICAN LAMINATORS ASSOCIATION

Arthur S. Langlie, Executive Director

P. O. Box 2209
 Seattle, Washington 98111-2209
 (206) 382-1671

Founded: 1984 Standards Staff: 1

Type of Organization Trade Association
 Standards Developer

Standards Development 1 active standard.

Standards Designation ALA-1992: The Performance Standard For Thermoset Decorative Panels.

Certification Self-certification by each manufacturing member.

Scope A national trade association of the thermoset decorative panel industry with members throughout the United States and Canada.

Standardization Activities American Laminators Association promotes thermoset decorative panels meeting the performance standard ALA 1992 under its registered trademark PERMALAM. Those panels are produced by ALA manufacturing members throughout the United States and Canada, and the panels are for decorative uses primarily in cabinetry, fixtures, furniture, and other interior uses.

Availability Sold directly.

Keywords laminated panels; building; materials;

AMERICAN LEATHER CHEMISTS ASSOCIATION

Velma Becker, Executive Secretary

c/o University of Cincinnati
P. O. Box 210014
Cincinnati, Ohio 45221-0014
(513) 556-1197 FAX: (513) 556-2377

Type of Organization Technical Society
Standards Developer

Standards Development 150 standard test methods.

Scope Chemists, leather technologists, and educators concerned with the tanning and leather industry. Objectives are to devise and perfect methods for the analysis and testing of leathers and materials used in leather manufacture; to promote advancement of chemistry and other sciences in their application to leather related problems.

Standardization Activities Maintains technical committees which develop methods of analysis and testing. Final methods published as the official methods of the association. Works with the American Society for Testing of Materials to coordinate physical test methods. Member of the International Union of Leather Chemists Society and participates in the development of methods for international use.

ALCA methods are incorporated in industry specifications. Members include representatives from government concerned with leather or leather products. Closely affiliated with the Leather Industries of America, formerly the Tanners Council of America.

Keywords leather; tanning; laboratory testing; materials;

AMERICAN LIBRARY ASSOCIATION

Elizabeth Martinez, Executive Director

50 East Huron Street
Chicago, Illinois 60611
(312) 944-6780 FAX: (312) 440-9374

Founded: 1876 Standards Staff: 4

Type of Organization Professional Association
Standards Developer

Representation National Information Standards Organization (NISO).

Scope Promotes libraries and librarianship to assure the delivery of user-oriented information service to all. Establishes standards of service, support, education, and welfare for libraries and library personnel; safeguards the professional status of librarians; promotes popular understanding and public acceptance of the value of the library service.

Standardization Activities Develops standards and guidelines both quantitative and qualitative for library service and librarianship. Standards and guidelines adopted by ALA or its units include College Library Standards; Standards for Faculty Status for College and University Libraries; Standards for University Libraries; Statement of Quantitative Standards for Two-Year Learning Resources Programs; Library Standards for Adult Correctional Institutions; Library Standards for Jails and Detention Facilities; Library Standards for Juvenile Correctional Institutions; Standards for Accreditation; Standards for Libraries at Institutions for the Mentally Retarded; Standards of Service for the Library of Congress National Library Service Network of Libraries Serving the Blind and Physically Handicapped.

Also works through committees and assists in the development of uniform codes for analyzing and cataloging information.

Availability Sold directly.

Keywords library; librarianship; physically handicapped; education;

AMERICAN LIGHTING ASSOCIATION

Richard D. Upton, CCE, President

P. O. Box 420288
2050 Stemmons Freeway
Dallas, Texas 75342-0288
(214) 698 9898 FAX: (214) 698-9899

Founded: 1943 Standards Staff: 1

Type of Organization Trade Association
Works with other organizations to develop standards

Representation UL; Luminaire Harmonization.

Scope Represents manufacturers of lighting fixtures, portable lamps, lamps (bulbs) and lighting accessories. Also represents lighting showrooms and manufacturers' representatives. Monitors and reacts to issues that affect UL listing of products and to regulatory changes that affect the industry. Conducts educational programs.

Standardization Activities Actively involved with Underwriters Laboratories with matters affecting the UL standards for all lighting fixtures and portable lamps. Works with CSA to provide harmonization of standards between Canada and the United States. Works with NOM to enable importation of lighting products from Mexico.

Formerly American Home Lighting Institute

Keywords lighting; fixtures; track lighting; recessed; landscape lighting; low voltage;

AMERICAN LUMBER STANDARDS COMMITTEE

Thomas D. Searles, Executive Vice President

P.O. Box 210
Germantown, Maryland 20875
(301) 972-1700 FAX: (301) 540-8004

Founded: 1922 Standards Staff: 5

Type of Organization Standards Developing Organization
Standards Developer

Standards Development Sets the standards under which virtually all of the lumber in the United States and Canada is produced.

**Government
Adoption**

Widely used by federal and local government agencies.

Scope

This committee serves in the Department of Commerce's Voluntary Product Standards Program. It maintains PS 20, which provides terminology, classification of American Standard Lumber, measurement and tally (sizes) requirements for grading rules, grade marking (labeling), inspection and reinspection (upon complaint), Committee functions, Board of Review (accreditation board) functions, the National Grading Rule Committee membership and functions, commercial names of principal softwood species, definitions of terms and lumber abbreviations. It is implemented through an internationally recognized consensus accreditation and certification program, the purpose of which is to provide for uniform, industry-wide grade marking and inspection of softwood lumber and the preservative pressure treatment of certain wood products. Its Board of Review accredits four grading agencies and six rules-writing agencies in the United States and 15 grading agencies and one rules-writing agencies in the Canada to grade mark untreated lumber. It also accredits 4 laboratories and 8 agencies that supervise the labeling of the preservative pressure treatment of certain wood products using AWPA standards. The committee consists of 22 representatives and 22 alternate groups of lumber manufacturers, lumber inspection agencies, engineers, architects, home builders, wholesalers, retailers, millwork manufacturers, wood using industries and other consumers, as well as four ex officio nonvoting government agency representatives appointed by the Secretary of Commerce.

**Standardization
Activities**

Acts to consider revisions or amendments to the PS 20.

Elects a Board of Review and adopts policies used by the Board in carrying out its accreditation functions. Principal functions of the Board are to review and approve lumber grading rules submitted by agencies to assure they conform to the American Lumber Standards requirements; reviews and approves grading agencies; and continuously reviews adequacy, competency and reliability of approved agencies. Elects a Board of Review and adopts policies used by the Board in carrying out its functions.

Principal functions of the Board are to review and approve rules submitted by agencies to ensure that they conform to the American Lumber Standards requirements; review and approve grading agencies; and to continuously review adequacy, competency and reliability of approved agencies.

Formerly Central Committee on Lumber Standards (1941)
Keywords lumber; construction; building; wood; grading; inspection;

AMERICAN MEDICAL ASSOCIATION

James S. Todd, M.D., Executive Vice President

515 North State Street
Chicago, Illinois 60610

(312) 464-5000

FAX: (312) 464-4184

Founded: 1846

Standards Staff: 7

**Type of
Organization**

Professional Society
Standards Developer

**Standards
Development**

Develops advisory standards.
None processed through ANSI.

Scope

A national organization of physicians whose objective is to foster the advancement of medical science, medical practice, and the public health.

**Standardization
Activities**

Develops advisory standards dealing with drug evaluation, diagnostic and the therapeutic technology assessment, guides to the evaluation of physical impairment, physical fitness standards for industry, undergraduate medical education, hospital residency training programs, and continuing medical education. Maintains close liaison with the Federal Government in matters of drug nomenclature (through the United States Adopted Names Council), medical and device evaluation at the post-marketing level of surveillance, and other issues of a scientific nature that arise in the practice of medicine.

Issues reports relating to guidelines for the determination of permanent impairment, and many other issues relative to the medical diagnosis and management of patient problems.

Availability

Distributed directly.

Keywords

medicine; medical; drugs; health care;

AMERICAN NATIONAL METRIC COUNCIL

Ann T. Loew, Executive Director

4330 East West Highway
Suite 1117
Bethesda, Maryland 20814
(301) 718-6508 FAX: (301) 656-0989
e-mail: annmetric@aol.com

Founded: 1973 Standards Staff: 1

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Scope

A private, nonprofit organization dedicated to planning, coordinating, and facilitating voluntary metric transition activities in various sectors of the United States economy. A focal point for private sector metric transition planning activity and information.

Distributes information about metric activities in the United States, Canada, and around the world. Publishes a newsletter and special issue papers. Conducts conferences, seminars, and educational workshops. Supplier of metric training and assistance publications and products.

**Standardization
Activities**

Assists standards making bodies by identifying needs for standards in SI units, evaluating priorities, and making recommendations for standards development.

Availability

Distributed directly.

Keywords

metric; measurement; international trade; manufacturing; business; general;

AMERICAN NATIONAL STANDARDS INSTITUTE

Sergio Mazza, President

Headquarters
11 West 42nd Street
New York, New York 10036
(212) 642-4900 FAX: (212) 398-0023
WWW: <http://www.ansi.org/>

ANSI Public Policy and Government Relations
ANSI Conformity Assessment
655 15th Street, NW
Suite 300
Washington, DC 20005-5794
(202) 639-4090 FAX: (202) 628-1886

Founded: 1918

Standards Staff: 118

**Type of
Organization**

Standards coordinating and approval organization.
Does not develop standards.

**Standards
Designation**

11 180 standards approved by ANSI are designated American National Standards.

**Government
Adoption**

American National Standards and ANSI's third party product accreditation programs are adopted and referenced by government at the federal, state, and local levels.

Certification

ANSI accredits third party product certification programs in accordance with ANSI Z 34.1 and ISO/CASCO Guides. ANSI's program is nationally and internationally recognized. ANSI has established Memoranda of Understanding with several international accreditation organizations. Oversight of ANSI's accreditation programs is provided by the Accreditation Committee, which is comprised of government, certifier and industry representatives and operates under due process and consensus procedures. A list of accredited third party certification programs is available upon request.

ANSI jointly operates with the Registrar Accreditation Board, the American National Accreditation Program for Registrars of Quality Systems. Registrars are accredited to perform registrations/certifications of organizations in accordance with ISO 9000 series standards. The ANSI/RAB program is nationally and internationally recognized. ANSI has established Memoranda of Understanding with several international accreditation organizations. The program is operated under due process and consensus procedures. A list of accredited registrars is available upon request.

ANSI is establishing a national program to accredit ISO 14000 Environmental Management Systems (EMS) registrars, auditors, certifiers, and auditor training providers. Registrars already accredited to the ANSI/RAB ISO 9000 program will only be required to demonstrate compliance with any additional requirements that apply specifically to EMS activities.

Scope

The ANSI federation is a partnership of standards developers, trade associations, labor unions, professional societies, industry, consumers, academia and government agencies. ANSI does not write standards; it serves as a catalyst for standards development by its diverse membership. ANSI is a nonprofit privately funded membership organization that coordinates the United States voluntary standards system to develop voluntary standards. 265 professional and technical societies, and trade associations that develop standards in the United States are members of ANSI; 1100 companies are members.

ANSI performs the following major functions:

- coordinates the development of voluntary national standards in the United States;
- approves standards as American National Standards;
- enables United States participation in non-treaty international standards developing organizations, such as the International Organization for Standardization (ISO), the International Electrotechnical Commission (IEC), and the European Telecommunications Standards Institute (ETSI);
- serves as the United States source and information center for strategic standardization and for all American National Standards and those issued by ISO, IEC, and their members;
- maintains interface with government at all levels on standards related matters.

**Standardization
Activities**

National Coordination -

Coordinates and harmonizes private sector standards activity in the United States and accreditation of standards developers. It assists participants in the voluntary standards system to reach agreement on the needs for standards, encourages qualified organizations to develop them, and follows up on progress. It provides standards developers with procedures and services to use their resources effectively, avoid duplication of effort, and resolve conflicts.

Approval of American National Standards -

Standards are approved by ANSI as American National Standards when ANSI finds that its criteria for due process have been met and that a consensus for approval exists among those directly and materially affected.

International Management and Coordination -

ANSI is the United States member of the International Organization for Standardization (ISO) and, through the U.S. National Committee, the International Electrotechnical Commission (IEC). The Institute manages, coordinates, and provides financial and administrative support for United States participation in these two major nongovernmental standards developing bodies. With the support of its members and other cooperating bodies, the Institute participates in some 2000 ISO technical committees and subgroups. It administers the secretariats of 30 ISO technical committees, 88 subcommittees, and 392 working groups. It helps govern ISO through membership on its Council and Executive and Planning Committees.

The U.S. National Committee of IEC, which is a committee of ANSI, participates in 90 percent of the International Electrotechnical Commission's technical programs and is represented on IEC's policy-making council and committees. It holds the secretariat of 13 IEC technical committees and 20 subcommittees.

Clearinghouse and Information Center -

Serving as the clearinghouse and information center for national, international, regional, and foreign national standards is another of ANSI's functions. The following are available from ANSI:

All 11 180 approved American National Standards.

ISO and IEC International Standards.

ISO and IEC Draft International Standards.

CEN Proposals - Draft European Standards developed and issued for preliminary vote by the European Committee for Standardization (CEN).

Draft specifications of the Electronic Components Committee of CENELEC - the European Committee for Electrotechnical Standardization.

Standards of 106 other national standards organizations that belong to ISO.

Latest catalogs issued by ISO, IEC, and their members.

Interface with Government -

Furnishes advice, counsel, and testimony to congressional committees and state and local legislative bodies. It encourages government agencies to participate in voluntary standards activities and to use voluntary standards, where appropriate. Close cooperative ties exist between ANSI and individual federal agencies. For example: The Department of Defense, General Services Administration, and National Institute of Standards and Technology are ANSI members. An ANSI-Consumer Products Safety Commission Coordinating Committee works to enhance overall cooperation between CPSC and private sector organizations that develop standards for consumer products and services. An ANSI-OSHA (Occupational Safety and Health Administration) Coordinating Committee performs a similar function in the area of standards for industrial safety.

Formerly

American Engineering Standards Committee (1918);

American Standards Association (1928);

United States of America Standards Institute (1968);

Keywords national standards; international standards; voluntary standards; standards coordination; general; regional standards; foreign standards; conformity assessment; certification; registration; accreditation;

AMERICAN NUCLEAR SOCIETY

Marilyn D. Weber, Manager, Standards Department

555 North Kensington Avenue
La Grange Park, Illinois
(708) 352-6611 FAX: (708) 352-6464
e-mail: mweber@ans.org

Founded: 1954 Standards Staff: 2

Type of Organization

Scientific and Professional Society
Standards Developer

Standards Development

125 active projects.
103 approved standards.
All processed through ANSI.
Draft standards available for review.

Standards Designation

ANS prefix.

Government Adoption

A number of NRC Regulatory Guides reference ANS standards; several standards are referenced in the Code of Federal Regulations.

Secretariats

N16, Nuclear Criticality Safety.
N17, Research Reactors, Reactor Physics, and Radiation Shielding.
N4B, Radioactive Waste Management.
American Nuclear Society Nuclear Power Plant Standards Committee (NUPPSCO).

Scope

A nonprofit, international, scientific, engineering and education organization. Aims to advance science and engineering related to the atomic nucleus and allied sciences and arts and to integrate the disciplines constituting nuclear science and technology.

Standardization Activities

Maintains a standards committee which ascertains the need for standards in the nuclear field, develops such standards, and cooperates with other organizations to develop standards. Maintains 16 subcommittees in the areas of nuclear design criteria, reactor operations, performance criteria, radiation protection, nuclear criticality safety, research reactors, reactor physics, computational methods, fuel and waste management, and environmental remediation of radioactively contaminated sites.

Availability Sold directly and through ANSI and Global. Microform and CD-ROM copies are available through Information Handling Services.

Keywords reactor; radioactive waste; nuclear; nuclear power plant; radiation shielding; energy; safety; criticality safety; research reactor; and environmental remediation;

AMERICAN OCCUPATIONAL MEDICAL ASSOCIATION

Donald L. Hoops, Ph.D., Executive Vice President

55 West Seegers Road
Arlington Heights, Illinois 60070
(708) 228-6850

Founded: 1916 Standards Staff: 1

Type of Organization Professional Society
Standards Developer

Certification Provides recognition of achievement and studies in Occupational Medical Practice via the Association's Basic Curriculum Program in Occupational Medicine.

Scope Represents the profession in matters pertaining to Occupational and Environmental Medical Practice.

Standardization Activities Actively participates in various standards developing committees. Sets forth acceptable medical practices in the form of recommended guidelines. Comments on and suggests modifications to all related federal legislation.

Availability Distributed directly.

Keywords occupational medicine; public health; health care; environmental;

AMERICAN OIL CHEMISTS SOCIETY

J. Lyon, Executive Director

P.O. Box 3489
Champaign, Illinois 61826-3489
(217) 359-2344 FAX: (217) 351-8091

Founded: 1909 Standards Staff: 4

**Type of
Organization**

Scientific Society
Standards Developer

**Standards
Development**

Standards Developer since 1909.
300 committee members participate in standards activities.
410 active standards.
None processed through ANSI

Certification

The Society certifies Approved Chemists and Certified Laboratories through its Examination Board.

Scope

A scientific organization concerned with basic research on animal, marine, and vegetable oils and fats, including their extraction, refining, use in consumer and industrial products, safety, packaging, and quality control.

**Standardization
Activities**

Publishes the Official Methods and Recommended Practices of the American Oil Chemists Society, a result of the work of various technical committees. Offers accurately tested and graded natural bleaching earth, activated bleaching earth, refining cups and other materials, all designed for use with specific methodology.

Sponsors joint committees with the American Society for Testing and Materials, Association of Official Agricultural Chemists, and American Association of Cereal Chemists. Representation maintained on committees of the American Association for the Advancement of Science, National Fire Protection Association, National Research Council, U.S. Technical Advisory Group for ISO/TC 34, and the Codex Alimentarius Committee on Fats and Oils.

Availability

Sold directly.

Formerly

Society of Cotton Products Analysts (1922)

Keywords

fats; vegetable oil; fish oil; analysis; oil extraction; oil refining; food; laboratory testing;

AMERICAN OPTOMETRIC ASSOCIATION

Earle L. Hunter, O.D., Executive Director

243 North Lindbergh Boulevard
St. Louis, Missouri 63141
(314) 991-4100 FAX: (314) 991-4101

Founded: 1898 Standards Staff: 2

Type of Organization Professional Society
Works through other organizations to develop standards

Representation ANSI, ISO, IEC.

Certification Council on Optometric Education accredits and certifies schools and colleges of optometry in United States and Canada. The Commission on Ophthalmic Standards conducts a Seal of Certification and Acceptance program for ophthalmic related products. Manufacturers can voluntarily submit products for evaluation. Those products that meet recognized standards or specifications adopted by the Commission are awarded the AOA Seal of Certification or Acceptance for use in product labeling and advertising.

Scope A nonprofit corporation representing doctors of optometry and students of optometry. A federation of associations representing each of the 50 states, the District of Columbia, and doctors of optometry in the armed forces. Objectives are to improve the vision care and health of the public and to promote the art and science of the profession of optometry.

Standardization Activities The Commission on Ophthalmic Standards serves as the coordinating body for AOA's activities with private and governmental groups in the development of standards and policies related to the quality of ophthalmic materials, instrumentation and procedures.

The Council on Optometric Education is the accrediting body for schools and colleges of optometry, as recognized by the U. S. Department of Education and the Council on Postsecondary Accreditation.

Formerly American Association of Opticians (1919)

Keywords education; optometry; ophthalmic products; vision; public health;

AMERICAN PETROLEUM INSTITUTE

R. L. Jones, Vice President, Industry Operations

1220 L Street, NW.
Washington, DC 20005
(202) 682-8000 FAX: (202) 682-8029
WWW: <http://www.api.org>

Founded: 1919 Standards Staff: 30

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1919.
500 active standards.
100 industry committees and 1500 people active in standards work.
45 percent of API standards processed through ANSI.
5 percent published jointly with ASTM.
23 percent are adopted or being processed by ISO.

**Standards
Designation**

API standards are called standards, recommended practices, publications, bulletins, guidelines, and specifications.

Representation

Members serve on committees of other organizations including the American Society for Testing and Materials, Society of Automotive Engineers, the American Society of Mechanical Engineers, the Institute of Electrical and Electronics Engineers, Instrument Society of America, National Fire Protection Association, Scientific Apparatus Manufacturers Association, American National Standards Institute, American Gear Manufacturers Association, National Association of Corrosion Engineers, Society for Non-Destructive Testing, American Welding Society, Association of Drilling Constructors, American Gas Association, American Iron and Steel Institute, and the Association of Well-Head Equipment Manufacturers.

**Government
Adoption**

Department of Transportation, Department of Defense, Occupational Safety and Health Administration, U.S. Customs Service, the Environmental Protection Agency, U.S. Geological Survey.

Certification

API issues a monogram to those field equipment manufacturers who produce equipment according to API standards. API also licenses companies to use API registered quality marks on their motor oils if they meet API specifications. API certifies inspectors of pressure vessels, above-ground storage tanks, and piping. API also administers a testing laboratory accreditation program.

Secretariats ISO/ 67/SC 9, Wellhead Equipment and Pipeline Valves.
API/A. M, Joint Committee on Static Petroleum Measurement.

Scope A national association encompassing all branches of the petroleum industry and composed of over 300 companies.

Standardization Activities Activities directed toward fulfilling user-defined requirements of the industry and its customers. The Industry Operations group produces standards in the area of transportation, marketing, production, refining, measurement, safety and fire protection. Maintains liaison with other standardization bodies. Standards are primarily performance oriented, with some design and process specifications where appropriate. Standards used worldwide and offered for adoption to the International Organization of Legal Metrology and the International Organization for Standardization.

Availability Distributed directly and through IHS and Global.

Keywords petroleum; petroleum equipment; petroleum measurement; petroleum transportation; materials;

AMERICAN PHARMACEUTICAL ASSOCIATION

John A. Gans, Pharm. D., Executive Vice President

2215 Constitution Avenue, NW.
Washington, DC 20037
(202) 628-4410

FAX: (202) 638-3793

Founded: 1852

Standards Staff: 2

Type of Organization Professional Society
Standards Developer

Scope A national professional society with 45 000 individual pharmacists and pharmaceutical scientists in the United States. Concerns itself with matters affecting the professional, technical, legal, and scientific aspects of the practice of pharmacy.

Standardization Activities Primary standardization programs pertain to standards of practice for the profession of pharmacy. Responsible for the pharmacy profession's code of ethics. Through its Board of Pharmaceutical Specialties, establishes criteria for specialization and certification of specialists within pharmacy. Participates jointly with other organizations in sponsoring and conducting a program known as the United States Adopted Names Council (USAN), for the establishment of standardized nonproprietary nomenclature for drugs. Through USAN, APHA is involved with the World Health Organization in developing international nomenclature for the naming of drugs. Also participates in programs of the Pan-American Health Organization and the Federation International Pharmaceutique. Maintains

contact with the Food and Drug Administration; the Treasury Department, Alcohol and Tobacco Division; the Social Security Administration, Medicare Division; and the Justice Department, Drug Enforcement Administration. Co-found-er of the Pharmacy Technician Certification Board, developed to administer voluntary national certification of pharmacy technicians.

Availability

Distributed directly.

Keywords

pharmaceutical; drugs; drug purity; nomenclature; health care; pharmacist; pharmaco therapy; pharmacy ethics; practice standards; pharmacy technician;

AMERICAN PIPE FITTINGS ASSOCIATION

Clay D. Tyeryar, CAE, Executive Director

7297 Lee Highway

Suite N

Falls Church, Virginia 22042

(703) 533-1321

FAX: (703) 241-5603

Founded: 1938

**Type of
Organization**

Trade Association

Works through other organizations to develop standards

Representation

Represented on the standards committees of MSSVFI and ANSI B16.

Scope

An association of American pipe fittings manufacturers and producers of pipe hangers and suppliers.

**Standardization
Activities**

Although not a standards developing organization, encourages, contributes to, and cooperates in the development of standards for products within the scope of the association which will benefit the industry, its customers and the public.

Formerly

Pipe Fittings Manufacturers Association (1964)

Keywords

pipe hangers; pipe supports; building; construction;

AMERICAN PSYCHIATRIC ASSOCIATION

Melvin Sabshin, Medical Director

1400 K Street, NW.
Washington, DC 20005
(202) 682-6000 FAX: (202) 682-6114

Founded 1844

**Type of
Organisation**

Professional Society
Works through other standards developer

Scope

A medical specialty organization which furthers the study of the nature, treatment, and prevention of mental disorders; contributes to the development of standards for psychiatric facilities; disseminates information and promotes psychiatric education.

**Standardization
Activities**

Actively participates in development of standard classification for mental illness and the Diagnostic and Statistical Manual for Mental Disorders. This is published by the APA and used throughout the world. Serves as consultant to the World Health Organization on the publication, International Classification of Diseases. Also, develops practice guidelines for treatments of psychiatric disorders.

Joins with the Accreditation Council for Graduate Medical Education and the Residency Review Committee for Psychiatry to establish standards for accreditation of residency training programs in psychiatry and serves as a member organization of the American Board of Psychiatry and Neurology, which administers an oral and written examination to certify physicians in psychiatry. Is represented on the Hospital Accreditation and Mental Health Professional and Technical Advisory Committees of the Joint Commission on Accreditation of Healthcare Organizations.

Activities are conducted through the APA Council on Medical Education and Career Development; the Council on Economic Affairs and its Committees on Standards and Survey Procedures; and the Council on Research and its Task Force on Diagnostic and Statistical Manual IV, and its Steering Committee on Practice Guidelines.

Availability

Distributed directly.

Formerly

Association of Medical Superintendents of American Institutions for the Insane (1892)
American Medico-Psychological Association (1921)

Keywords

psychiatry; health care; education;

AMERICAN PSYCHOANALYTIC ASSOCIATION

Ellen B. Fertig, Administrative Director

309 East 49th Street
New York, New York 10017
(212) 752-0450 FAX: (212) 593-0571
e-mail: ebfertig@apsa.org
WWW: <http://www.apsa.org>

Founded: 1911 Standards Staff: 4

**Type of
Organization**

Professional Society
Standards Developer

**Standards
Development**

Standards developer since 1911.
150 members actively involved in standards activities.

Certification

Certification in adult, child and adolescent psychoanalysis.
Accreditation program for training institutions.

Scope

A national membership organization of psychoanalysts. Studies and advances psychoanalysis; advocates and maintains standards for the training of psychoanalysts and for the practice of psychoanalysis; fosters the integration of psychoanalysis with other branches of medicine and encourages research in all fields having to do with the scientific knowledge and welfare of man.

**Standardization
Activities**

Maintains Board of Professional Standards with eight standards setting committees. Conducts site visits in conjunction with accreditation activities of new training facilities. Certifies graduates of accredited Institutes.

Availability

Distributed directly.

Keywords

psychoanalysis; psychology; psychiatry; education;

AMERICAN PUBLIC HEALTH ASSOCIATION

Fernando M. Treviño, PhD., M.P.H., Executive Director

1015 15th Street NW.
Washington, DC 20005
(202) 789-5600 FAX: (202) 789-5681

Founded: 1872 Standards Staff: 2

**Type of
Organization**

Professional Society
Standards Developer

Scope Professional organization of public health officials and practitioners which seeks to protect and promote personal and environmental health. Promulgates standards, establishes uniform practices and procedures, and publishes peer reviewed public health research.

Standardization Activities Develops standards of procedures, personnel qualifications, and practice. Publishes and updates Standard Methods for the Examination of Dairy Products; Standard Methods for the Examination of Water and Wastewater; and Standards for Healthful Housing. Publishes other works where standards are included, for example, Suggested Ordinance and Recommendations Covering Public Swimming Pools. Also publishes standard methods for the Microbiological Examination of Ambient Air.

Represented on various boards of the American National Standards Institute (ANSI) and cosponsors Sectional Committee A40 on Minimum Requirements for Plumbing. APHA is involved in standards of accreditation for schools of public health. APHA develops policies and publications on such subjects as TB control, radiological health and chronic disease which serve as guides for practitioners, scientists, technologists, administrators, and others concerned with public health problems.

Availability Distributed directly.

Keywords public health; sanitation; education;

AMERICAN RAILWAY ENGINEERING ASSOCIATION

David E. Staplin, Executive Director

50 F Street, NW.
 Washington, DC 20001
 (202) 639-2190 FAX: (202) 639-2183

Founded: 1899 Standards Staff: 4

Type of Organization Professional Society
 Standards Developer since 1905

Standards Development 400 recommended practices developed.
 None processed through ANSI.
 23 Committees active in developing recommended practices.

Standards Designation AREA prefix; some rail specifications carry only RE prefix.

Government Adoption Recommended practices are used as specifications in government contracts.

Scope An international (the United States, Canada, and Mexico) professional association whose purpose is the advancement of knowledge pertaining to the scientific and economic location, construction, operation, and maintenance of railways.

Standardization Activities Directed toward the principles, specifications, plans, and economics pertaining to the fixed-plant engineering, design, and construction of railways (except signals and communications), and allied services and facilities. Recommended practices are published in the AREA Bulletin for comment. Once approved for publication by the Association's Board of Directors, they appear in the Manual for Railway Engineering. Works closely with the Department of Transportation's Federal Railroad Administration and Transportation Systems Center.

Availability Distributed directly and through IHS.

Formerly American Railway Engineering and Maintenance of Way Association

Keywords transportation; construction; railroads; track; railway; rails;

AMERICAN ROAD AND TRANSPORTATION BUILDERS ASSOCIATION

T. Peter Ruane, President and CEO

The ARTBA Building
 1010 Massachusetts Avenue, NW
 Washington, DC 20001
 (202) 289-4434 FAX: (202) 289-4435

Founded: 1902 Standards Staff: 1

Type of Organization

Trade Association
 Standards Developer

Scope

Fosters and encourages the full utilization of scientific and educational measures toward the accomplishment of an integrated national highway, airport, and urban public transportation system adequate to accommodate the growth and advancement of transportation necessary for the civil economy and the national defense.

Membership includes federal, state, county and city highway engineers and administrators, as well as consulting engineers, highway contractors, producers of highway materials, manufacturers and distributors of highway machinery, and educators in civil engineering colleges and universities.

**Standardization
Activities**

Committees study problems relating to highway legislation, finance, design, construction, maintenance, equipment, and operation. Efforts are directed toward development of improved standards to bring about utilization of new materials and eliminate waste and improper methods.

Cooperates with other associations in joint activities. Publishes bulletins dealing with practical application of technical and semitechnical developments.

Availability

Distributed directly.

Formerly

American Road Makers (1910)

Keywords

highways; road construction; construction; transportation;

AMERICAN SOCIETY FOR ARTIFICIAL INTERNAL ORGANS

Karen Burke, Executive Director

Headquarter Office

P.O. Box C

Boca Raton, Florida 33429

(407) 391-8589

FAX: (407) 368-9153

e-mail: 74761.404@compuserve.com

Founded: 1955

**Type of
Organization**

Scientific Society

Works through other organizations to develop standards

Representation

The ASAIO Renal Disease and Detoxification Committee works in collaboration with its counterpart in AAMI. The society is also represented on the Medical Devices Standards Board of ANSI. Members and policies are called upon to contribute to the FDA activities in medical device regulation, such as the Cardiovascular and Gastroenterology-Urology Medical Device Classification Panels. Internationally, members represent the United States on ISO/TC 150 SC 2: Surgical Implants and Artificial Organs (Cardiac Valves, Pacemakers, Vascular Prostheses, Blood Gas Exchangers and Hemodialysis). Additionally, members contribute to the development of IEC document TC 62D: Hemodialysis Equipment.

Scope An organization which promotes the development and safe usage of artificial internal organs, with 1400 members from both medical and engineering specialties. At the present time approximately two-thirds of the activities are in the fields of artificial kidneys and artificial hearts/circulatory assist. The remainder are devoted to innovations in other areas, such as plasmapheresis tissue engineering, biohybrid organs and artificial organs for liver failure, diabetes mellitus, vascular disease and disorders of the genitourinary tract.

Standardization Activities Members are active in the development of voluntary medical device standards and guidelines for the user through a variety of mechanisms, including consensus symposia, investigation into the risks and hazards of medical devices, and contributions to the efforts of standards making organizations. Standards committees of the Society are appointed by the President. The Renal Diseases and Detoxification Committee meets annually; members of this committee are also members of the AAMI Committee in this field. Resulting standards are subjected to the review of processes of AAMI and ANSI.

Keywords artificial organs; health care; medical devices;

AMERICAN SOCIETY FOR CLINICAL LABORATORY SCIENCE

Elissa Passiment, Executive Director

7910 Woodmont Avenue
Suite 530
Bethesda, Maryland 20814
(301) 657-2768

FAX: (301) 657-2909

Founded: 1932

Standards Staff: 2

Type of Organization Professional Society
Standards Developer

Scope A national professional organization composed of 20 000 members committed to providing efficient health care, quality service and accurate information/test results cost effectively to the public. Also committed to providing proper educational training to future clinicians as well as continuing education to clinical laboratory professionals/educators.

**Standardization
Activities**

Standards for day-to-day practice are covered in ASCLS's competence assurance documents, which undergo regular review for continued relevancy; LS's position papers; and National Committee for Clinical Laboratory Standards (NCCLS) specifications for biology and chemistry reagents or reference materials, controls for equipment, etc.

Works with the Food and Drug Administration in conducting a pilot project for surveillance of products used in clinical laboratories.

A member of the Medical Device Technical Advisory Board of the American National Standards Institute.

Cooperates with NCCLS and the International Association of Medical Laboratory Technologists in the development of international standards.

Availability

Distributed directly.

Formerly

American Society of Medical Technologists (prior to 1972)
American Society of Chemical Laboratory Technicians (1936)

Keywords

medical; medical technology; testing; laboratory equipment;

AMERICAN SOCIETY FOR ENOLOGY AND VITICULTURE

Dr. Steven Fike, Technical Projects Committee Director

P.O. Box 1855
Davis, California 95617
(916) 753-3142
e-mail: ASEVDavis@aol.com

FAX: (916) 753-3318

Founded: 1950

**Type of
Organization**

Professional Society
Works through other organizations to develop standards

Scope

A nonprofit corporation comprised of enologists, viticulturists and suppliers to the wine and grape industry, exclusively for scientific and literary purposes in enology and viticulture. Publishes the American Journal of Enology and Viticulture which contains original research papers, short abstracts, and reviews. Sponsors scholarship awards and an annual meeting.

Standardization Activities The Technical Projects Committee develops technical projects of interest to the Society's membership.

Formerly American Society of Enologists (1984)

Keywords enology; viticulture; wine; winemaking; beverages;

AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING

Robert T. Anderson, Technical Services Manager

1711 Arlingate Lane
 P O Box 28518
 Columbus, Ohio 43228-0518
 (614) 274-6003 FAX: (614) 274-6899
 e-mail: asnt@delphi.com

Founded: 1941 Standards Staff: 3

Type of Organisation Technical Society
 Standards Developer

Certification Level III nondestructive testing examinations are offered in acoustic emission, electromagnetic, leak, liquid penetrant, magnetic particle, neutron radiographic, radiographic, thermal-infrared, ultrasonic and visual testing. Successful examinees receive a serialized method endorsement on an ASNT NDT Level III Certificate in accordance with Recommended Practice No. ANT-TC-1A and ASNT Standard for Qualification and Certification of Nondestructive Testing Personnel (ANSI/ASNT CP-189-1991).

Scope A nonprofit, professional, technical society:

- providing a forum for the exchange of NDT technical information.
- providing NDT educational materials and programs.
- providing training, standards and services for the qualification and certification of NDT personnel.
- promoting the discipline of NDT as a profession.
- facilitating and promoting NDT research and the application of NDT technology.
- composed of in excess of 10 000 corporate and individual members within the United States and abroad.

Standardization Activities Recommended Practice No. SNT-TC-1A and ASNT Standard for Qualification and Certification of Nondestructive Testing Personnel (ANSI/ASNT CP-189-1991) are recognized documents for establishing NDT personnel qualification and certification. In accordance with these documents, ASNT provides an ASNT NDT Level III Certificate by Examination program. Through ASNT's volunteer members, liaison is maintained with governmental bodies and standards organizations including ANSI, ASM, ASTM, ISO and USNRC.

Availability Publications are sold directly and through ASNT's Publications Department.

Formerly The American Industrial Radium and X-Ray Society (1941-1946)
The Society for Nondestructive Testing (1946-1957)

Keywords nondestructive testing; inspection; laboratory; testing; quality assurance; acoustic emission; electromagnetic; leak; liquid penetrant; magnetic particle; neutron radiographic; radiographic; thermal-infrared; ultrasonic; visual;

AMERICAN SOCIETY FOR PHOTOGRAMMETRY AND REMOTE SENSING

William D. French, CAE, Executive Director

5410 Grosvenor Lane
Suite 210
Bethesda, Maryland 20814-2160
(310) 493-0290 FAX: (301) 493-0208
e-mail: billf@asprs.org
WWW: www.asprs.org/asprs

Founded: 1934 Standards Staff: 2

Type of Organization Technical Society
Standards Developer since 1939

Standards Designation ASPRS prefix.

Government Adoption Map accuracy standards adopted by the Office of Management and Budget for use by government agencies such as Geological Survey, National Ocean Survey, Defense Mapping Agency, Forest Service, Federal Highway Administration.

Certification Active Voluntary program awarding qualified individuals title of "ertified Photogrammetrist."

Scope Primarily concerned with the art, science, and technology of measuring and interpreting photographic and remote-sensor images. Scope of interest includes the fields of aerial photography, photogrammetric surveys, photographic interpretation, remote sensing, and Geographic Information Systems (GIS). Publishes a monthly journal devoted to new developments, equipment, techniques, and applications in these areas.

Standardization Activities Developed nomenclature for photogrammetry and remote sensing standards. Developing standards for large scale photogrammetric mapping. Publishes manuals which are generally accepted as standards of reference including the Manual of Photogrammetry, the Manual of Photographic Interpretation, the Manual of Color Aerial

Photography, and the Manual of Remote Sensing. Maintains Committees on specifications and standards and also nomenclature. Contributes to programs aimed at the standardization of definitions and terminology. Actively participates in the work of the International Society for Photogrammetry and Remote Sensing.

Availability Sold directly.

Formerly American Society of Photogrammetry (1985)

Keywords photogrammetry; remote sensing; aerial photography; mapping; surveying; geographic information systems; land information systems;

AMERICAN SOCIETY FOR QUALITY CONTROL

Paul E. Borawski, Executive Director

611 E. Wisconsin Avenue
Milwaukee, Wisconsin 53202
(414) 272-8575 FAX: (414) 272-1734
WWW: <http://www.asqc.org>

Founded: 1946 Standards Staff: 1

Type of Organization Technical Society/Professional Society
Standards Developer

Standards Development Standards developer since 1947.
7 existing projects.
All processed through ANSI.
Draft standards available for review.
35 active standards.

Standards Designation ANSI/ASQC prefix.

Secretariats ANSI Z1 Committee on Quality Assurance U.S. TAG for ISO/TC 69 on Statistical Methods, TC 176 on Quality Management and Quality Assurance; Subcommittee 1 of ISO/TC 69 on Statistical Methods; IEC/TC 56 on Dependability; Sub TAGs to ISO/TC 207 SC 1 and SC 2.

Scope Advances the theory and practice of quality. Creates, promotes, and stimulates interest in the advancement and diffusion of knowledge of the science of quality and of its application to manufacturing and service industries.

Standardization Activities Maintains a Standards Council which directs and coordinates national and international standards activities.

Availability Distributed directly and through IHS, Global, and ANSI.

Keywords quality control; quality assurance; sampling; inspection; quality systems; quality management; quality auditing; environmental management;

AMERICAN SOCIETY FOR TESTING AND MATERIALS

James A. Thomas, President

100 Barr Harbor Drive
 West Conshohocken, Pennsylvania 19428-2959
 (610) 832-9500 FAX: (610) 832-9555
 WWW: <http://www.astm.org>

Founded: 1898 Standards Staff: 200

Type of Organization Technical Society
 Standards Developer

Standards Development 9900 active standards.
 Metric equivalency required.
 32 000 members, including 4000 international.
 132 Technical Committees.
 Any interested party may participate.

Standards Designation ASTM.

Government Adoption The Department of Defense has adopted 2000 ASTM standards. Local building codes reference 600. The following agencies also have adopted ASTM Standards: General Services Administration, Public Building Service, Veterans Administration, Environmental Protection Agency, Food and Drug Administration Occupational Safety and Health Administration, National Institute of Occupational Health and Safety, Department of Energy, Department of Housing and Urban Development, Department of Agriculture, and Department of Transportation.

Certification No certification, qualification, or accreditation programs.

Scope A nonprofit organization formed to develop standards on characteristics and performance of materials, products, systems, and services; and to promote related knowledge. Standards include classifications, guides, practices, specifications, terminology, and test methods.

Standardization Activities Standards cover iron and steel products; nonferrous metal products; metal test methods and analytical procedures; construction; petroleum products; lubricants and fossil fuels; paints; related coatings, and aromatics; textiles; plastics; rubber; electrical insulation and electronics; water and environmental technology; nuclear, solar, and geothermal energy; medical devices; general methods and instrumentation, general products, chemical specialties, environmental assessment and end use products.

Standards developed by the Society's committees are published in the 70 volume Annual Book of ASTM Standards. Hundreds of technical papers and reports presented at ASTM symposia and meetings are published in Special Technical Publications, the Society's monthly magazine "Standardization News," and in quarterly publications. All are distributed worldwide.

ASTM standards are developed by those having expertise in the specific areas who choose, voluntarily, to work with the ASTM system-producers, users, ultimate consumers, and representatives of government and academia. ASTM provides a forum in which these people can meet on a common ground to write standards that will best meet the needs of all the interested parties. The ASTM system adheres to the principles of due process, assuring equal access to and equal voice in the standards forum.

Draft standards undergo a balloting process from the subcommittee, to main committee, and to the entire Society -- with careful attention paid to minority opinions at each balloting level -- before they are published as official ASTM standards.

Availability Distributed directly and through IHS, and Global.

Keywords materials; products; systems; services; testing; concrete; building; textiles; machinery; office products; electrical equipment; safety; defense environment; public health; medical devices; laboratory equipment; consumer products; industrial equipment; general;

AMERICAN SOCIETY OF AGRICULTURAL ENGINEERS

Russell H. Hahn, P.E. Director of Standards
and Technical Services

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Founded: 1907 Standards Staff: 3

**Type of
Organization**

Professional Society
Standards Developing Organization

**Standards
Development**

Standards developer since 1909.
145 technical committees and subcommittees active or potentially
active in standards development.
210 standards, engineering practices, and data, most with SI-
metric units.
Accredited by ANSI; 25 percent standards approved by ANSI.
Drafts available for review.

**Standards
Designation**

S, Standard; EP, Engineering Practice; D, Data.
Examples: S318.11 Mar 95; EP364.1 Aug 93; D309.1 Dec 92.

**Government
Adoption**

OSHA-4; EPA-1; USDA-5; other government agencies-1.

Certification

No certification, qualification, or accreditation programs.

Scope

Professional and technical organization of 8000 members worldwide
who are interested in engineering knowledge and technology for
agricultural, food, and biological systems. Develops engineering
standards used in agriculture. Sponsors international technical
meetings and continuing education programs. Publishes peer
reviewed technical journals.

**Standardization
Activities**

Develops voluntary standards for agricultural equipment systems,
facilities and processes. Standards cover technical areas within
the six ASAE technical divisions/institutes: Emerging Technolo-
gies, Information and Electrical Systems, Food and Process Engi-
neering, Power and Machinery, Soil and Water, and Structures and
Environment. Standards considered national in scope and used for
numerous international standardization proposals. ASAE's Coopera-
tive Standards Program encompasses the development, adoption,
publication, distribution, and maintenance of needed voluntary
standards for industry and the consumer in agriculture and in
related industries such as turf and landscape.

Maintains liaison with other technical societies such as ASME, ASHRAE, ASTM, IEEE, SAE, and ANSI. ASAE participates in United States Technical Advisory Groups for ISO/TC 23, Agricultural Tractors and Machinery; ISO/TC 31 Tires, Rims, and Valves; and ISO/TC 131 Fluid Power Systems and Components.

Availability Hardcopy available directly. CD-ROM and microfiche through IHS. Index on Internet at <http://asae.org/>.

Keywords agriculture; irrigation; structures; drainage; livestock; grain; machinery; safety; food processing; electronic; environmental; electric; tractors; turf; and landscape; erosion;

AMERICAN SOCIETY OF ANESTHESIOLOGISTS

Glenn W. Johnson, Executive Director

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Park Ridge, Illinois 60068
(708) 825-5586 FAX: (708) 825-1692

Founded: 1905

Type of Organization Professional Society
Works through other organizations to develop standards

Representation Individual members participate in standardization activities of ANSI, ASTM, ISO, and NFPA.

Scope A national medical society composed of over 26 000 members, most of whom are physicians specializing in the practice of the medical specialty of anesthesiology. Among its purposes is to "raise the standards of the specialty by fostering and encouraging education, research and scientific progress in anesthesiology" and to disseminate information concerning the specialty.

Standardization Activities The society works within the voluntary standards system to prevent the views of anesthesiologists on matters relating to the agents, devices, and facilities they use in their practices. Its Committee on Equipment and Standards deals with mechanical, electrical, and structural matters as they relate to anesthesiology. This committee is charged with the duties of representing the society in activities related to standards development and supervising and coordinating liaison activities to organizations such as ANSI, ASTM, ISO, NFPA, and other professional and technical bodies in the medical field.

The committee on Equipment and Standards maintains liaison with the standardization work of other professional and technical bodies in the medical field. While previously active in ANSI Committee Z79, Standards for Anesthesia and Respiratory Equipment, ASA currently participates in ASTM F29.

Formerly Long Island Society of Anesthetists (1911)
New York Society of Anesthetists (1936)
American Society of Anesthetists (1945)

Keywords anesthesia; respiratory equipment; medical; medical devices;

AMERICAN SOCIETY OF BAKERY ENGINEERS

Thomas L. Kuk, President

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Suite 1733
Chicago, Illinois 60606
(312) 332-2264

FAX: (312) 332-6560

Founded: 1924

Standard Staff: 1

Type of Organization Professional Society
Standards Developer

Scope Association of baking industry production professionals, equipment manufacturers, ingredient suppliers and related baking services organizations. The ASBE mission is to promote the advancement of baking science technology.

Standards Development Develop standards for bakery equipment particularly safety requirements.

Standards Designation Standards are developed in accordance with ANSI procedures in conjunction with the American Bakers Association, The Bakery Equipment Manufacturers Association, The Biscuit and Cracker Manufacturers Association, and the Retail Bakers of America.

Availability Distributed through ANSI.

Keywords bakery equipment; equipment safety;

AMERICAN SOCIETY OF BREWING CHEMISTS

Steven C. Nelson, Executive Officer

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St. Paul, Minnesota 55121
(612) 454-7250 FAX: (612) 454-0766

Founded: 1914 Standards Staff: 3

**Type of
Organization**

Professional Society
Standards Developer

**Standards
Development**

200 standard methods of analysis.

**Standards
Designation**

ASBC Method.

Certification

Check Sample services provide the opportunity for subscribing laboratories to check their analytical accuracy on a periodic basis. For each service, a statistical summary of the analytical data is provided for use as an internal check. Check Sample services include Malt Analysis, Cereal Adjunct, Beer Analysis, and Hop Analysis. Another available service is Malt for standardizing mills. Standard malt is used to insure reliable milling and grinding samples for industry-wide analysis. The Soluble Starch service provides a special starch product available only to ASBC members, and is lot-checked by ASBC.

Scope

750 members worldwide engaged in all aspects of brewing. Maintains high professional standards; conducts, promotes, and encourages scientific research in brewing and related industries; studies, develops, and adopts uniform methods for the analysis of raw materials, supplies, and products; holds meetings and disseminates technical knowledge.

**Standardization
Activities**

Publishes ASBC Methods of Analysis which contain 200 official ASBC methods relating to brewing chemistry. Also has available Tables for Extract in Malt and Cereals, and Tables related to Wort, Beer, Brewing Sugars and Syrups.

Availability

Sold directly.

Keywords

beer; beverages; testing;

AMERICAN SOCIETY OF CIVIL ENGINEERS

James Rossberg, Manager, Building Standards

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Suite 600
Washington, D.C, 20005
(202) 789-2200

FAX: (202) 289-6797

Founded: 1852

Standards Staff: 2

**Type of
Organization**

Technical Society
Standards Developer

**Standards
Development**

Standards developer from 1875-1895 and 1974-present.
2000 members and nonmembers participating in standards activities. ASCE is an ANSI accredited standards developing organization.

**Standards
Designation**

ASCE prefix.

Scope

A 120 000 member organization for civil engineers in the United States dedicated to the civil engineering profession, offering opportunities for individual professional development and providing a forum for communication between individuals and groups involved in the practice of civil engineering.

**Standardization
Activities**

Maintains activities in these and related areas:
Composite Deck Slab, Steel Deck, Pile Foundation, Drilled Shafts, Temporary Excavations, Nuclear Safety Related Earth Structures, Seismic Analysis, Steel Cables for Buildings, Minimum Design Loads for Buildings and Other Structures, Masonry Structures (joint with American Concrete Institute), Air Supported Structures, Engineered Wood Construction, Tensioned Fabric Structures, Wind Tunnel Testing, Steel Transmission Towers and Poles, Water Regulatory Standards, Rehabilitation of Buildings, Structural Composites and Plastics, Testing of Seismic Isolation Systems, and Fiberglass Reinforced Stacks. Technical and task committees seek to advance knowledge in specific engineering areas, focusing on relevant problems and concerns, by publishing standards, manuals, guides, reports, proceedings, and by conducting conferences and workshops.

Availability

Available directly.

Keywords

civil engineering; decks; slabs; structures; environment; foundations; nuclear safety; building; construction; loads; masonry; wood; seismic;

AMERICAN SOCIETY OF ELECTROPLATED PLASTICS

David W. Barrack, Executive Director

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Reston, VA 22090
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Founded: 1966 Standards Staff: 1

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards Developer since 1967.
ASTM approved.

**Standards
Designation**

ASEP prefix.

Scope

A nonprofit organization devoted to improving the efficiency of its industry and to promoting the use of printing on plastics, with a domestic and foreign membership of 45 companies.

**Standardization
Activities**

Cooperates with ASTM in developing specifications which include parts design; mold design; substrate fabrication requirements; plastic product qualification; test procedures and standards (including standard test panel, adhesion, corrosion, thermal cycling, and appearance); performance capabilities (including substrate, plate construction, and proven applications); handling of molded parts for plating; and industry terms. Publishes Standards and Guidelines which include these standards.

Availability

Distributed directly.

Keywords

plastics; electroplated plastics; manufacturing; materials; EMI/RFI Shielding;

AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS

Jim L. Heldenbrand, Manager of Standards

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Founded: 1894 Standards Staff: 8

Type of Organization	Technical Society Standards Developer
Standards Development	Standards developer since 1959. Over 400 members and nonmembers participating in standards activities. Most standard processed through ANSI. Draft standards available for review. 69 active standards.
Standards Designation	ASHRAE prefix.
Government Adoption	ASHRAE/IESNA Standard 90.1, Energy Efficient Design of New Buildings Except Low-Rise Residential Buildings is referenced in the Energy Policy Act and it, or earlier editions, serves as the basis for building code provisions in all 50 states. ASHRAE Standard 15, Safety Code for Mechanical Refrigeration and ASHRAE Standard 62, Ventilation for Acceptable Indoor Air Quality are used in whole or in part by the three model code organizations.
Certification	No certification, qualification, or accreditation programs.
Secretariats	U.S. Technical Advisory Group for ISO/TC 86, Refrigeration. ISO/TC 86, Subcommittees 1, Safety; 6, Factory Assembled Units; and 8, Refrigerants and Lubricants. ISO/TC 117, Subcommittee 2, Industrial Fans. ISO/TC 144, Subcommittee 1, Air Distribution and Diffusion.
Scope	An international membership organization operated for the exclusive purpose of advancing the arts and sciences of heating, refrigeration, air conditioning and ventilation, the allied arts and sciences, and related human factors for the benefit of the public.
Standardization Activities	Assists industry and the public by offering a uniform method of testing for rating purposes, and by suggesting safe practices in designating and installing equipment, by providing proper definitions of this equipment and by providing other information which may serve to guide the industry. Creation of standards is determined by need, and conformance to them is completely voluntary. Maintains approximately 80 active Standards committees, supported by a staff organization administered by the Manager of Standards. Continuously promulgates new standards and reviews current standards to reflect technical advances in the field.

A series of standards relates to energy conservation in new and existing building. Other standards specify methods of testing for rating equipment, ventilation levels for indoor air quality, conditions for indoor comfort, mechanical refrigeration safety, and guidelines for reducing CFC emissions and commissioning buildings.

Availability Sold directly and through ANSI, IHS, and Global.

Formerly Merger of American Society of Heating and Air-Conditioning Engineers and the American Society of Refrigerating Engineers (1959)

Keywords heating; refrigeration; air conditioning; ventilation; energy conservation; environmental quality; construction; building; commissioning;

AMERICAN SOCIETY OF MECHANICAL ENGINEERS

June Ling, Associate Executive Director,
Codes and Standards

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WWW: <http://www.asme.org>

Founded: 1880 Standards Staff: 95

Type of Organization Technical Society
Standards Developer

Standards Development 600 active standards.
Nearly all processed through ANSI.
More than 120 standards committees and 4000 individuals develop and maintain these standards.

Government Adoption 120 standards have been adopted by the Department of Defense.
Many others have been adopted by the Coast Guard and the Nuclear Regulatory Commission. The Boiler and Pressure Vessel Code has been widely adopted by responsible state and provincial agencies in the United States and Canada.

Certification ASME operates accreditation programs in connection with its activity for boilers and pressure vessels, for nuclear plant components, and safety and pollution prevention equipment used in offshore oil and gas operations. The society authorizes manufacturers to apply ASME Code Symbol Stamps to their product, indicating compliance with the respective code or standard. The society

also administers Certification Programs relating to Elevator Inspections and Resource Recovery Facility Operators, Medical and Industrial Waste Facilities.

Scope

An educational and scientific society organized to promote the art and science of mechanical engineering and the allied arts and sciences; encourage original research; foster engineering; promote the exchange of information of engineers among themselves and with allied technologists; broaden the usefulness of the engineering profession in cooperation with other engineering and technical societies; and promote a high level of ethical practice.

**Standardization
Activities**

Standards development is an important part of the society's activity to promote the art and science of mechanical engineering. The ASME Council on Codes and Standards supervises the standardization activities of the society under the authority delegated to it by the ASME Board of Governors. Standards are developed under ANSI Accredited Organization Procedures. Documents presented to the Society under the ANSI Canvass Method, where ASME has a Standards Committee whose scope covers that of the proposed standard, are reviewed by the appropriate committee.

Participates actively in international standardization through its sponsorship of ASME Committees which serve as the USA Technical Advisory Groups for the International Organization for Standardization (ISO) and International Electrotechnical Committee (IEC).

The Boiler and Pressure Vessel Code is ASME's most widely recognized standards publication. It is a definitive compilation of safety and performance requirements for power and heating boilers, nuclear reactors and power plants, as well as pressure vessels. The Performance Test Codes define accepted methods of determining performance and efficiency for a wide range of equipment and systems, from safety valves and gas turbines to fuels, incinerators, and centrifugal pumps. Many other fields have benefitted from ASME standards and codes. These include drafting practices and symbols, screw threads, bolts, nuts, rivets, and other fasteners in conventional and metric measure; machine tools, cutters and accessories; valves, pipe fittings, and plumbing fixtures; cranes, conveyors, and related equipment; and safety codes for elevators and escalators.

Availability Distributed directly and through ANSI, IHS, Global, and other book sellers.

Keywords abbreviations; accreditation; boiler code; cranes; drafting practices; elevators; fasteners; freight containers; hand tools; industrial trucks; machine tools; machinery; nuclear; mechanical; plumbing; pollution prevention; pressure piping; pressure vessels; qualification; quality assurance; safety; solar energy; industrial equipment; valves;

AMERICAN SOCIETY OF PLUMBING ENGINEERS

Kenneth G. Wentink, PE, CIPE, President

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#210
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Founded: 1964

Type of Organization Technical Society
Works through other organizations to develop standards

Representation National Standards Plumbing Code Committee of the National Association of Plumbing-Heating-Cooling Contractors, the American National Standards Institute (ANSI), the American National Standards Committee A40, International Association of Plumbing and Mechanical Officials (IAPMO), Southern Building Code Congress, International (SBCCI), and the American Society of Sanitary Engineers (ASSE), and on local code and administrative authorities.

Scope A nonprofit professional technical society organized to elevate the field of plumbing to professional status. The only international organization devoted exclusively to the interests and concerns of plumbing engineering.

Standardization Activities Although ASPE does not publish standards, it is engaged in the important work of advising builders, architects, and property owners in the value, to them and to their projects, of well conceived, carefully prepared plumbing drawings and clear, concise specifications.

ASPE's code committee examines all regulatory codes pertaining to the plumbing industry; submits proposed revisions or clarifications of codes to code-writing authorities in an effort to simplify, standardize, and modernize all codes; and offers advisory services to other organizations or to governmental agencies involved in writing or enacting codes.

Keywords plumbing; codes; sanitation; building;

AMERICAN SOCIETY OF SAFETY ENGINEERS

Thomas F. Bresnahan, Director, Technical Services

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Des Plaines, Illinois 60018-2187

(708) 629-4121 x224 FAX: (708) 296-9221

Founded: 1911

**Type of
Organization**

Professional Society
Standards Developer and works through other organizations to
develop standards

Secretariats

ANSI Z87, Eye Protection.
Z117, Confined Spaces.
Z359, Fall Protection Equipment.
A1264, Workplace, Floor and Wall Openings, Railings and Stairways.
Z390 Hydrogen Sulfide Safety Training.

Scope

Composed of 32 000 career safety specialists organized to enhance
the status and promote the advancement of all safety disciplines;
foster the technical, scientific and managerial knowledge and
skills of all safety and health professionals; and support the
technical, social, and economic well-being of all safety practi-
tioners.

**Standardization
Activities**

The ASSE currently serves as secretariat to five ASSE accredited
national standards committees for ANSI Z87, Eye Protection; Z117,
Confined Spaces; Z259, Fall Protection Equipment; A1264, Work-
place, Floor and Wall Openings, Railings and Stairways; Z390,
Hydrogen Sulfide Safety Training. In addition, the Society
appoints its safety professionals to various ANSI, NFPA, and other
national standards writing organizations. It also participates on
other standards making committees of other organizations where
representation of the profession is appropriate. Recommendations
of Society members are offered to various governmental agencies
when establishing advisory standards committees.

Formerly Absorbed the United Association of Casualty Inspectors (1914)
Keywords safety; safety engineering;

AMERICAN SOCIETY OF SANITARY ENGINEERING

Gael H. Dunn, Executive Secretary

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Bay Village, Ohio 44140
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Founded: 1906 Standards Staff: 2

Type of Organization Technical Society
Standards Developer

Standards Development 34 active standards.
Standards submitted for ANSI approval.

Standards Designation ASSE prefix.

Government Adoption Standards are referenced by a large number of government agencies.

Certification ASSE Seal Program

Scope Plumbers, contractors, apprentices, journeymen, inspectors, engineers, health officials, and manufacturers interested in promoting public health and sanitation. Conducts research on plumbing and sanitation.

Standardization Activities Develops performance standards for plumbing system components. Standards provide a tool for measuring quality and effectiveness of a product. Products meeting these standards are identified by the ASSE Seal. Components of plumbing systems include backflow prevention devices, pressure regulators, water hammer arresters, water mixing and shower control valves, anti-siphon hydrants, and other devices which directly affect public health and safety.

Availability Distributed directly and through IHS.

Formerly American Society of Inspectors of Plumbing and Sanitary Engineering

Keywords plumbing; construction; sanitation; public health;

AMERICAN SOYBEAN ASSOCIATION

Leonard Guarraia, Chief Executive Officer

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St. Louis, Missouri 63141
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Founded: 1920

Type of Organization Trade Association
Works through other organizations to develop standards

Representation Grain Standards Division, Foreign Agricultural Service, and
Federal Grain Inspection Service of USDA

Scope A nonprofit, soybean producer-owned trade association organized to
expand markets for soybeans and soybean products overseas.

Standardization Works with NOPA, AFMA, AAFCO, and AOCs in monitoring standards,
specifications

Activities and trading rules for soybeans, soybean meal, and soybean oil,
both for domestic sale and sale into the export markets.

Keywords soybean; agriculture;

AMERICAN SPEECH-LANGUAGE AND HEARING ASSOCIATION

Sharon Goldsmith, Ph.D., Director Professional Affairs Department

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Founded: 1925 Standards Staff: 22

Type of Organization Professional Society
Standards Developer

Certification SHA is the accrediting agency for college and university programs
offering graduate degrees in speech-language pathology and audiol-
ogy and for programs offering clinical services in speech-language
pathology and audiology to the public. ASHA is the only national
certifying agency for professionals who are speech language
pathologists and audiologists.

Scope A national professional and scientific association representing
over 81 000 speech-language pathologists and audiologists engaged
in research, teaching, and clinical activities concerned with
communication behavior and disorders. Maintains high standards of

clinical competence for professionals providing services to the public; certifies audiologists and speech language pathologists for entry level independent practice; encourages the development of comprehensive clinical service programs; promotes investigation of human communication and its disorders; and stimulates exchange of information about human communication.

**Standardization
Activities**

Directed toward assuring quality of the speech-language pathology and audiology services provided to communicatively impaired persons. Develops standards for appropriate education and training of speech-language pathologists and audiologists. Accredits professional clinical service programs in speech-language pathology and audiology which meet criteria on organizational structure, quality service with functional, measurable outcomes, personnel, records, physical plant and equipment, community relations, and program evaluation. Incorporates ANSI standards on electroacoustic measurements of hearing aids; on permissible ambient noise during audiometric testing; and on calibration of audiometric equipment into Professional Services Board (PSB) clinical accreditation standards.

Maintains Council on Professional Standards which establishes and monitors all standards programs related to certification, continuing education, education and training, and professional services. Reviews and comments on standards proposed by ANSI that pertain to electro- and bioacoustic characteristics of audiometric equipment, hearing aids, and environments for hearing testing.

Standards are recognized by the Council of Postsecondary Accreditation, U.S. Department of Education, Joint Commission on Accreditation of Health Organizations, National Easter Seal Society, Council of State Administrators of Vocational Rehabilitation and Commission on Accreditation of Rehabilitation Facilities.

Availability

Distributed directly from the Association.

Formerly

American Speech & Hearing Association (1978)

Keywords

speech; language; audiology; hearing; acoustics; communication disorders; hearing aids; health; education; research;

AMERICAN SPICE TRADE ASSOCIATION

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Founded: 1907 Standards Staff: 1

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Designation**

Official methods.

Scope

Importers, grinders, and distributors of spices, also resins, and dehydrated vegetable seasonings.

**Standardization
Activities**

Maintains a Standards Committee whose function is to adopt standards of quality for whole spices, seeds, and herbs imported at American ports of entry. Also, through the ASTA's Research Committee, in cooperation with RESEARCH 900, developed the values of the base nutrient composition of spices including ash, fat, fiber, moisture, protein, calories, and vitamin content. Cooperated with the Wisconsin Alumni Research Foundation to develop the content of twenty-one mineral elements in spices.

Developed a publication, Official Analytical Methods, for Analyzing spices. Also developed a publication, Official Microbiological Methods, which aims to designate official methods for the detection and enumeration of microorganisms occurring on spices, seeds, and herbs and to provide helpful information and guidelines to those responsible for the assessment of microbiological quality of spices and seasonings.

Keywords

spice; herb; food;

AMERICAN SPORT FISHING ASSOCIATION

Michael Hayden, President

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Founded: 1933 Standards Staff: 1

Type of Organization Trade Association
Standards Developer

Standards Development Standards developer since 1933.
Draft standards available for review.

Scope Manufacturers and importers of fishing tackle and allied products organized to educate, guide, and assist its members in matters of common interest so that they maintain a high standard of conduct, efficiency, and usefulness to industry, government, and the public.

Standardization Activities Administers fly line standards which are universally accepted and were prepared in cooperation with the American Casting Association and the International Casting Federation. Supplies each manufacturer with these standards for packaging with their fly lines. Developed standards for rod seats and reel feet for the purpose of improving compatibility between rods and reels.

Availability Distributed directly.

Keywords fishing tackle; fly line; fishing reels; fishing rods; recreation;

AMERICAN STATISTICAL ASSOCIATION

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Founded: 1839

Type of Organization Scientific Society
Works through other organizations to develop standards

Standards Development The American Statistical Association Committee on National and International Statistical Standards was formed in 1979. About 100 American Statistical Association members are actively involved in standards activities which focus primarily on the standards being developed within ISO.

Standards Designation Examples of areas with committee involvement: ISO 3534-1, Statistics -- Vocabulary and Symbols; CD 11453 Statistical Interpretation of Data; ISO 8422 Sequential Sampling Plans for Inspection by Attributes; W13-42, Uncertainty of Measurements; ISO 9000 series, Quality Management; etc.

Certification None

Scope The American Statistical Association has well over 10 000 members. The Committee on National and International Statistical Standards provides liaison with national and international standards writing Committees engaged in the codification of statistical methods; and provides for competent timely review and informed participation in the development of standards through delegates to such Committees, who are empowered to vote as delegates of the American Statistical Association.

Standardization Activities The codification of statistical methods including testing and measurement.

Keywords statistics; design of experiments; sampling; accuracy; normality; uncertainty;

AMERICAN TEXTILE MACHINERY ASSOCIATION

Harry W. Buzzerd, Executive Vice President

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 Falls Church, Virginia 22046
 (703) 533-9251 FAX: (703) 241-5603

Founded: 1933 Standards Staff: 1

Type of Organization Trade Association
 Standards Developer

Scope A nonprofit trade association devoted to the advancement of the United States based manufacturers of textile machinery, ancillary equipment and parts. Major activities include government affairs, market development, technical services, and educational programs.

Standardization Activities Develops criteria to help overcome industry problems; issued criteria for dust and noise measurement. Provides guidelines for innovative machinery technology. Worked with ANSI to develop the Safety and Health Standards for the Textile Industry.

Availability Distributed directly.

Keywords textile machinery; safety;

AMERICAN TEXTILE MANUFACTURERS INSTITUTE

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Services Division

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e-mail: kvilla@atmi.org

Founded: 1949 Standards Staff: 5

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

All participants in the voluntary standards development committees are volunteers and represent the breadth of industry sectors involved in the manufacturing and supply of textile/apparel commodities. These include textile manufacturers; notions suppliers; apparel manufacturers, retailers, academia; consultants; and consumers, numbering approximately forty. Only one standard has been published; however, other standards are being developed in the area of computer integrated manufacturing. ANSI approval is required for any standards developed under ATMI. Draft copies of standards are available for review from the organization.

ATMI and its members also work through other organizations including the American Association for Textile Chemists and Colorists, American Society for Testing and Materials, National Fire Protection Association, and the Joint Industry Fabrics Standards Committee to develop voluntary test methods and voluntary product standards.

**Standards
Designation**

Fabric and Sundries Linkage Council (FASLINC).
Manual - Industry specific electronic data interchange standard based on Version 3 Release 3 of ANSI ASC X-12.
Future computer integrated manufacturing standards will have ANSI designation.

Certification

None.

Secretariats

Secretariat ISO TC 38/SC 19 Textile Flammability.
U.S. TAG Administrator ISO TC 72.

Scope

ATMI is the national trade association of the textile manufacturing industry. Approximately 140 members operate in more than 30 states and account for 80 percent of all textile fibers consumed by mills in the United States.

Standardization Activities Computer integrated manufacturing standards are used by all sectors of the industry to convey product information during manufacturing phases and consumer distribution.

Availability Distributed directly.

Formerly Merger of American Cotton Manufacturers Association and the Cotton Textile Institute to form the American Cotton Manufacturers Institute in 1949. Absorbed the National Federation of Textiles in 1958. Current name adopted in 1962. Merged in 1964 with the Association of Textile Merchants of NY. Absorbed the National Association of Finishers of Textile Fabrics in 1965, the National Association of Wool Manufacturers in 1971, and the Thread Institute in 1989.

Keywords computer integrated manufacturing; electronic data interchange; environmental management; fabrics; flammability, textiles; safety; health;

AMERICAN THORACIC SOCIETY

Marilyn T. Hansen, Executive Director

1740 Broadway, 16th Floor
 New York, New York 10019-4394
 (212) 315-8778 FAX: (212) 315-6498

Founded: 1905 Standards Staff: 2

Type of Organization Professional Society
 Standards Developer

Standards Development Standards developed in areas of pulmonary medicine, environmental health, infectious disease control, respiratory therapy, and medical devices. Standards not processed through ANSI. Draft standards available for review to members.

Government Adoption Standards related to the treatment and control of tuberculosis are developed jointly with the Centers for Disease Control of the U.S. Public Health Service.

Certification No certification or accreditation programs.

Scope A professional society dedicated to the prevention and control of lung disease, works to provide optimal health care services for individuals with lung disease. Emphasizes research and professional education. Serves as the medical section of the American Lung Association. Provides a forum for review of issues related to all aspects of lung health and the development of programs for the control of lung disease. Functions on a national level.

through cooperation with federal agencies and national voluntary health organizations.

Standardization Activities Develops standards and classifications for tuberculosis and other respiratory diseases. Provides standards for spirometers which are adhered to by all product manufacturers. Standards developed by the Society are incorporated into accreditation programs for health care institutions. Maintains close liaison with various government agencies primarily the Department of Health and Human Services. Acts as an advisor to federal agencies in their development of regulations and standards.

Availability Distributed directly and through state and local affiliates of the American Lung Association.

Formerly National Tuberculosis Association/American Trudeau Society (1960)

Keywords pulmonary; tuberculosis; medical devices; spirometry; lung disease; public health; health care;

AMERICAN VACUUM SOCIETY

Yvonne Towse, Office Manager

120 Wall Street, 32nd Floor
New York, New York 10005
(212) 248-0200
e-mail: avsnyc@vacuum.org
WWW: <http://www.vacuum.org>

FAX: (212) 983-6745

Founded: 1953

Standards Staff: 1

Type of Organization Scientific Society
Developer of Recommended Practices

Standards Designation AVS prefix, S-2.

Scope Scientists, engineers, and others interested in vacuum technology. Promotes education and research.

Standardization Activities Establishes recommended practice for nomenclature, measuring techniques and such items as flanges and fittings on vacuum equipment. Standards drafted and reviewed under the auspices of the AVS Committee.

Availability Distributed directly.

Keywords vacuum technology; industrial equipment; flanges; leak detection;

AMERICAN WALNUT MANUFACTURERS ASSOCIATION

Larry R. Frye, Executive Director

260 South First Street
Suite 2
Zionsville, Indiana 46241
(317) 873-8780 FAX: (873) 873-8788

Founded: 1912

Type of Organization Trade Association
Works through other organizations to develop standards

Standardisation Activities Cooperates in the development of grade rules for walnut lumber which are published by the National Hardwood Lumber Association. These grade rules are in general use both in the United States and foreign countries.

Keywords wood; hardwood; timber;

AMERICAN WATCHMAKERS-CLOCKMAKERS INSTITUTE

Michael P. Danner, Administrative Director

P.O. Box 11011
Cincinnati, Ohio 45211
(513) 661-3838 FAX: (513) 661-3131

Founded: 1960 Standards Staff: 1

Type of Organization Technical Society
Standards Developer

Certification Program includes examinations for certified watchmakers and master certified watchmakers. Also participates in state licensing.

Scope A nonprofit corporation dedicated to the advancement of horology. Six thousand watchmakers and others who sell, service, or collect horological items. Activities include technical bulletins, a certification program, professional seminars, a monthly magazine, technical library, lending library and museum.

Standardization Activities Involved in standards of craftsmanship through the dissemination of technical bulletins, and certification examinations. Aims to standardize the technical teaching techniques in the United States through its Education committee, which operates through the schools.

Participated in the American National Standards Institute's program on the Standardization of Corundum Bearings in Horology, reviewed standards on chronometers for the U.S. Army, and reviewed railroad time standards for the National Institute of Standards and Technology. Worked with the British Horological Society to determine the proper placement of jewels in a 17-jewel watch.

Availability Distributed directly.

Formerly Merger of Horological Institute of America and the United Horological Association of America.

Keywords horology; watchmaking; instruments;

AMERICAN WATER WORKS ASSOCIATION

Edward E. Baruth, Director, Standards and Materials Development

6666 West Quincy Avenue
 Denver, Colorado 80235
 (303) 794-7711 FAX: (303) 794-7310
 WWW: <http://www.awwa.org>

Founded: 1881 Standards Staff: 14

Type of Organization Scientific Society
 Standards Developer

Standards Development Standards developer since 1890.
 130 active voluntary consensus standards.
 All processed through ANSI.
 50 standards under development.
 1300 members active in standards activities.

Standards Designation AWWA or ANSI prefixes.

Government Adoption The Department of Defense (DoD) has adopted numerous AWWA standards.

Secretariats U.S. TAG for ISO/TC 5/SC 2, Cast Iron and Ductile Iron Pipe.

Scope Represents its 55 000 members in all areas concerning water supply. 2000 volunteers participate in the development of technical documents. Holds three conferences, as well as other special conferences, each year. Publishes a monthly technical journal, news magazine, and publication for water system operating personnel; and an informational biweekly newsletter.

Standardization Activities Develops standards for a variety of pipe, fittings, valves, wells, pumps, water treatment chemicals, water storage tanks, water meters, and procedures for installation and use of these products. Solicits both membership and public approval in formulating standards. Use of standards is voluntary.

Standard Methods for the Examination of Water and Wastewater, a compilation of 190 laboratory tests, is published jointly by AWWA, The American Public Health Association and the Water Pollution Control Federation.

Participates in ISO/TC 5/SC 2, Cast Iron and Ductile Iron Pipe, and ISO/TC 30/SC 7, Water Meters.

Availability Distributed directly and through IHS, and Global.

Keywords water; pipe; valves; fittings; wells; pumps; tanks; water treatment chemicals; sanitation; reservoirs; construction; public health; meters;

AMERICAN WELDING SOCIETY

Dr. H. Glenn Ziegenfuss, Technical Director

550 N. W. LeJeune Road
 Miami, Florida 33126
 (305) 443-9353 x 312 FAX: (305) 443-5951
 WWW: <http://www.amweld.org>

Founded: 1919 Standards Staff: 16

Type of Organization Technical Society
 Standards Developer

Standards Development Developing welding standards since 1922.
 1300 members participating in standards activities, including representation on 37 standards committees of ANSI, NFPA, AWWA, API, ASME, ASTM, and others.
 130 active standards.

Standards Designation AWS, ANSI/AWS, AWS/SAE, AWS/AWWA, or AWS/AASHTO prefixes.

Government Adoption The Department of Defense has adopted 24 AWS filler metal specifications and four other standards.

Secretariats American Council of the International Institute of Welding (IIW).
ANSI Z49, Safety in Welding and Cutting.
US TAG for ISO/TC 44, Welding and Allied Processes and ISO TC/ SC 44 and SC 5.
ISO TC/107 SC 5.
ISO TC/146 SC 2.
ISO/TC 44 Subcommittees.

Scope Founded to advance the science, technology, and application of welding. Prepares standards such as codes, specifications, recommended practices, methods, classifications, guides and technical reports. Holds symposiums and technical meetings. Cooperates with other organizations in the preparation and review of welding standards. Active in the International Institute of Welding and the ISO Committee on Welding. Participates through ANSI in establishing the U.S. position on draft international standards.

Standardization Activities AWS technical committees prepare standards covering four broad categories:

Welding fundamentals, including metric practice, symbols, testing, definitions, filler metals, safety and health, and computerization.

Welding processes, including resistance welding, thermal spraying, brazing, soldering, oxyfuel, ARC, friction, and high energy.

Inspection of welds, including methods, mechanical testing, and qualification of welders and procedures.

Industrial applications of welding, including structural, marine construction, water tanks, automotive, sheet metal, piping and tubing, iron castings, machinery and equipment, railroad, and robotics.

Availability Sold directly and through ANSI, IHS, and Global domestically, and through several foreign agencies.

Keywords brazing; soldering; filler metals; welder qualification; welding; thermal cutting; safety; manufacturing; structural welding; thermal spraying;

AMERICAN WIRE PRODUCERS ASSOCIATION

Kimberly A. Korbel, Executive Director

515 King Street
Alexandria, Virginia 22314-3103
(703) 549-6003 FAX: (703) 684-6048

Founded: 1981 Standards Staff: 1

Type of Organization Trade Association
Standards Developer

Standards Development Standards developer since 1944

Certification No certification, qualification, or accreditation programs

Scope A nonprofit trade association of companies which manufacture from wire rod, all forms of carbon alloy and stainless wire and wire products.

Standardization Activities Maintains a Technical Committee which publishes Standards Manuals for round wire and flat and shaped wires. These contain recommended standards for wire and rod. Represents the wire and rod industries to ANSI and ASTM.

Availability Distributed directly.

Formerly Independent Wire Producers
Specialty Wire Association

Keywords specialty wire; wire;

AMERICAN WOOD-PRESERVERS ASSOCIATION

John F. Hall, Executive Vice President

P.O. Box 286
Woodstock, Maryland 21163-0288
(410) 465-3169 FAX: (410) 465-3195
Founded: 1904 Standards Staff: 2

Type of Organization Technical Society
Standards Developer

Standards Development Standards developer since 1930.
250 members actively participating in standards development.
1800 members given opportunity to vote on standards approval.
Several standards developed in cooperation with ANSI.

Standards Designation AWPA prefix.

Government Adoption AWPA Standards are used in federal specifications. Federal Specification TT-W-571 on Wood Preservation parallels AWPA standards.

Scope An international technical society devoted to research and development of wood preservation chemicals and treating practices for use in the United States and other countries.

Standardization Activities Develops standards and specifications for wood preservatives and their introduction into the materials to be preserved. Standards cover preservatives, treatment of commodities, analysis methods, and conversion tables.

Availability Distributed directly.

Keywords wood; preservation; treated wood; construction; building;

AMERICAN WOOD PRESERVERS BUREAU

Eric Yeadon, President

#4 East Washington Street
Newman, Georgia 30263
(404) 254-9877 FAX: (404) 254-0084

Founded: 1971 Standards Staff: 2

Type of Organization Trade Association
Standards Developer

Standards Development Standards developer since 1971.
Developed 23 standards.
None processed through ANSI.

Standards Designation LP, General Purpose.
MP, Marine Piling.
CP, Construction Poles.
MLP, Marine Structures.

Government Adoption The AWPB Quality Mark is accepted by the Federal Housing Administration; Farmer's Home Administration, Veteran's Administration, Navy, and DoD. It is recognized by the building codes, ICBO, BOCA, and SBCC, as well as local and other organizations.

Certification Certifies treated wood inspection agencies to license pressure treating plants to apply the AWPB Quality Mark to properly treated wood.

Scope A not-for-profit volunteer quality control and certifying organization with 300 members. Provides a nationally known Quality Mark certifying a definite preservative treatment. Operates a wood preservative laboratory to standardize methods and assure quality control. A three-man Board of Review of retired scholars handles disputes.

Standardization Activities All AWPB pressure treated lumber and plywood procedures are based on the American Wood-Preservers' Association standards.

Availability Sold directly.

Keywords wood; preservation; treated wood; marine; construction; building;

AMT - The Association for Manufacturing Technology

Anthony M. Bratkovich, Engineering Director
 7901 Westpark Drive
 McLean, Virginia 22102
 (703) 893-2900 FAX: (703) 893-1151
 Founded: 1902 Standards Staff: 3

Type of Organization Trade Association
 Standards Developer

Representation Working through member companies and staff representation on ASME, NFPA, IEEE, EIA, ASTM, AGMA, and others, most of which are ANSI accredited writing organizations.

Scope Comprised of companies producing over 80 percent of United States total machine tool output. Objectives are to be the industry spokesman before the public and the Government; to provide technical, economic, educational, and informational service to its members; and to promote higher technical and safety standards in industry.

Standardization Activities Promotes and supports industry representation in promulgating standards by sponsoring various machine tool oriented standard writing committees. Cooperates with standardization committees of other trade associations and supports industry representation on committees of the International Organization for Standardization and the International Electrotechnical Commission. Develops and maintains machine tool safety standards.

Formerly National Machine Tool Builders' Association (1989)
Keywords machine tools; manufacturing technology; metal cutting; metal forming; machinery;

AOAC INTERNATIONAL

Ronald R. Christensen, Executive Director

481 N. Frederick Avenue
Suite 500
Gaithersburg, Maryland 20877-2504
(301) 924-7077 FAX: (301) 924-7089
e-mail: info@aoac.org

Founded: 1884 Standards Staff: 3

Type of Organization Scientific Society
Standards Developer

Standards Development More than 2100 validated analytical methods for food, feed, fertilizer, pesticides, pharmaceuticals, residues, micro-biologicals, hazardous substances, water, and other commodities.

Government Adoption FDA, EPA, State Departments of Agriculture, Agriculture Department of Canada. Used in official regulatory laboratories in many countries.

Certification Certifies analytical test kits through subsidiary, the AOAC Research Institute

Secretariats Category "A" liaison to ISO/TC 34 Agricultural Food Products, ISO/TC 69 Applications of Statistical Methods, ISO/TC 93 Starch, ISO/TC 134 Fertilizer and Soil Conditions, and ISO/TC 190 Soil Quality. Secretariat to Inter-Agency Meeting (IAM), a subcommittee to the Codex Committee of Methods of Analysis and Sampling (CCMAS). Recognized international observer organization to Codex Alimentarius Commission.

Scope Coordinates the work of some 800 volunteer scientists in government and private laboratories worldwide to develop, test, validate, approve and publish official methods of analysis for food, agricultural commodities, chemicals, and pharmaceuticals. Publishes Official Methods of Analysis, Journal of the AOAC, and collaborative study data. Conducts an Annual Meeting and regional meetings, internationally.

Standardization Activities Validates analytic methods used by industry and government laboratories in some 70 countries for determining compliance with government regulations, research, and quality control. Scientists participate in the AOAC methods validation process to validate and approve official methods.

Availability Distributed directly.

Formerly Association of Official Agricultural Chemists (1965)
Association of Official Analytical Chemists (1991)

Keywords laboratory analysis; quality control; food; methods; agriculture; pesticides; fertilizer; feed; pharmaceuticals; analytical chemistry; government officials; microbiologicals; residues; water;

ARCHITECTURAL WOODWORK INSTITUTE

Greg Heuer, Director, Members Service

13924 Braddock Road
Suite 100
Centerville, Virginia 22020
(703) 222-1100 FAX: (703) 222-2399
CompuServe: 76665,737
e-mail: gheuer@capaccess.org

Founded: 1954 Standards Staff: 2

Type of Organization Trade Association
Standards Developer

Standards Development More than 90 experts participate in consensus development of Architectural Woodwork Quality Standards. None are processed through ANSI.

Government Adoption 6th Edition Quality Standards adopted by American Institute of Architects (AIA); Construction Specifications Institute (CSI); Government Services Administration (GSA); Corps of Engineers (COE); Naval Facilities Engineering Command (NAVFEC); and numerous state and local facilities units.

Certification The AWI National Quality Certification Program (QCP) licenses woodwork manufacturers to apply the QCP Label to items of woodwork which comply with the 6th Edition Quality Standards as specified by the design professional. In addition, program representatives assist woodwork manufacturers in meeting the 6th Edition Quality Standards, and inspect fabrication, finishing, and installation of architectural woodwork for compliance.

Scope The authoritative source for the advancement of architectural
woodwork through education, standards, certification and market-
ing, while promoting integrity, quality and value among customers,
design professionals, suppliers and all AWI members. Promotes the
use of architectural woodwork by reaching and informing customers,
design professionals and the woodworking community with programs
of value. Establishes quality standards through research and
testing and maintains a certification program as our commitment to
quality.

**Standardization
Activities** Carries on a sustained program of standardization in
the fields of cost accounting, estimating, detailing and billing,
and the fabrication of architectural woodwork, sometimes known as
special millwork, detail millwork, or contract millwork. This is
done through publications such as the AWI Cost Accounting Manual,
Quality Standards for Architectural Woodwork and Guide Specifica-
tion for Architectural Woodwork.

Availability Sold directly.

Formerly Absorbed Millwork Cost Bureau and Southern Woodworkers Association
at founding in 1954.

Keywords wood products; millwork; lumber; building;

ART AND CREATIVE MATERIALS INSTITUTE

Deborah Fanning, Executive Vice President

100 Boylston Street, Suite 1050
Boston, Massachusetts 02116
(617) 426-6400 FAX: (617) 426-6639

Founded: 1936 Standards Staff: 2

**Type of
Organization** Trade Association
Standards Developer

**Standards
Development** 5 active standards.

**Standards
Designation** Z356.1 through .5.

Certifications ACMI sponsors a certification program to ensure that art and craft materials are evaluated by a qualified toxicologist and labeled, if necessary, for any acute or chronic potential health hazards. All ACMI-certified products conform to the chronic hazard labeling standard, ASTM D 4236. The Certified Products Bureau of the Institute, initiated in 1940, ensures the safety and quality of the products of subscribers to the bureau. Certified products are identified by a CP, AP, or HL Health Label Seal, all registered Trademarks. The CP Seal ensures both nontoxicity and specific quality requirements; the AP Seal ensures nontoxicity only; the HL Health Label ensures that the product is properly labeled. The products covered by the seals are crayons, chalk, finger paints, modeling clay, liquid and powdered tempera, semimoist water colors, block printing ink, school paste and related school art products, as well as ceramic products and numerous adult art materials.

Scope An association of manufacturers of art, craft and other creative materials which conducts a wide range of activities.

Standardization Activities Maintains a Certification Committee which is responsible for the standardization activities.

Works with the American National Standards Institute to develop and update quality standards for products within the scope of the institute. Current standards are Z356.1 for Crayons; Z356.2 for Chalk; Z356.3 for Adhesives; Z356.4 for Modeling Materials; and Z356.5 for Paints and Inks.

Availability Distributed directly.

Formerly Crayon, Water Color and Craft Institute (1983)
Art & Craft Materials Institute (1994)

Keywords crafts; art; safety; education; consumer products;

ASBESTOS INFORMATION ASSOCIATION NORTH AMERICA

B.J. Pigg, President

1745 Jefferson Davis Highway
Crystal Square 4
Suite 406
Arlington, Virginia 22202
(703) 412-1150

FAX: (703) 412-1152

Founded: 1970

Standards Staff: 1

Type of Organization Trade Association
Standards Developer

Standards Development 3 active standards.

Standards Designation Recommended Work Practices.

Certification No certification, qualification, or accreditation programs

Scope Member companies are involved in the mining, milling, manufacturing, and marketing of asbestos and asbestos-containing products. Efforts are centered on health and safety aspects of asbestos and its use.

Standardization Activities Standards developed by committees with participants drawn from member companies.

Availability Sold directly.

Keywords asbestos; safety; health; materials;

ASPHALT EMULSION MANUFACTURERS ASSOCIATION

Michael R. Krissoff, Executive Director

3 Church Circle.
Suite 250
Annapolis, Maryland 21401
(410) 267-0023 FAX: (410) 267-7546
CompuServe 74603,3345

Founded: 1973 Standards Staff: 1

Type of Organization Trade Association
Standards Developer

Standards Development Developed a series of Recommended Performance Guidelines for the manufacture and use of emulsified asphalt.

Standards Designation Recommended Performance Guidelines.

Scope An industry-wide trade association including over 120 corporate members in the United States, Canada, Mexico, and in many countries overseas. The technical work of the association is done in the committees and subcommittees of the association's international Technical Committee.

**Standardization
Activities**

The International Technical Committee prepares guide specifications for the proper use of emulsions AEMA is involved with the American Society for Testing and Materials. Individual AEMA members hold committee chairmanships and subcommittee chairmanships within the ASTM structure, and particularly in ASTM Committee D-4. AEMA is also active in the American Association of State Highway Transportation Officials and is involved with the Materials and Services Division of the American Road Builders Association, where it reviews state and road building specifications and participates in the Stabilization Committee.

Availability

Distributed directly.

Keywords

materials; asphalt; asphalt emulsion; slurry seal; seal coat; construction;

ASPHALT INSTITUTE

Edward L. Miller, President

Asphalt Institute Building
Research Park Drive
P.O. Box 14052
Lexington, Kentucky 40512-4052
(606) 88-4960 FAX: (606) 288-4999
Founded: 1919 Standards Staff: 2

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

25 active standards.

Representation

Works closely with other organizations in the development of standards including the American Society for Testing and Materials, the American Association of State Highway and Transportation Officials. Staff members serve on technical committees of standards making organizations. Promulgates standards of other organizations.

Certification

Works with other organizations in providing training for asphalt technician/inspector certification programs.

Scope

An international business league (trade association) representing the manufacturers of asphalt or processors of asphalt materials and affiliated businesses. Publishes informational and technical literature. Maintains field offices in the continental United States. Conducts extensive programs of education, research, and engineering service related to asphalt products.

Standardization Activities Works closely with its member companies, and serves upon appropriate standards making committees of the American Society for Testing and Materials, the American Association of State Highway and Transportation Officials, and others. Works in collaboration with kindred organizations such as the National Asphalt Pavement Association, the Asphalt Emulsion Manufacturers Association, the Asphalt Roofing Manufacturers Association, the Highway Users Federation, the Transportation Research Board, and others. Prepares Asphalt Institute Guidelines many of which are subsequently processed as ASTM and AASHTO standards.

Availability Distributed directly and through Global and IHS.

Formerly Asphalt Association (1929)

Keywords asphalt; highways; pavements; construction; materials;

ASPHALT ROOFING MANUFACTURERS ASSOCIATION

Richard D. Snyder, Executive Vice President

6000 Executive Blvd.
 Suite 201
 Rockville, Maryland 20852
 (301) 231-9050 FAX: (301)881-6572
 Founded: 1919

Type of Organization Trade Association
 Works through other organizations to develop standards

Representation Technical Committees cooperate in the formulation and improvement of standards and specifications covering asphalt roofing products developed by the Federal Government, ASTM, Underwriters Labs, Factory Mutual, and others.

Scope A national trade association representing North American companies that produce asphalt shingles, roll goods, built and modified bitumen roofing systems and allied roofing products. Provides basic membership services, including technical materials related to the performance of asphalt based roofing products and systems.

Standardisation Activities Works with standards producing organizations to coordinate industry standards activities and to provide expertise when requested. A Code Task Force works cooperatively with the association's Residential Roofing Committee and Modified Bitumen Roofing Built-Up Roofing Committee to assure recommended application practices adhere to building code requirements.

Formerly Asphalt Roofing Industry Bureau (1970)

Keywords roofing; asphalt shingles; fiberglass shingles; construction; building; built-up roofing; modified bitumen roofing;

ASSOCIATED AIR BALANCE COUNCIL

Kenneth M. Sufka, Executive Director

1518 K Street, NW
 Suite 503
 Washington, DC 20005
 (202) 737-0202

FAX: (202) 638-4833

Founded: 1965

Standards Staff: 6

Type of Organization

Trade Association
 Standards Developer

Standards Development

Standards Developer since 1965.
 All members participate in standards activities.

Standards Designation

AABC National Standards.

Government Adoption

Army Corps of Engineers

Certification

Test and Balance Certification for membership

Scope

A nonprofit organization of qualified independent test and balance agencies. Promotes professional standards for the industry and a scientific approach to testing and balancing air handling systems. Represents its membership at national and international levels.

Standardization Activities

Activities directed toward fulfilling the minimum requirements for total system balance. AABC National Standards (a performance standard for the Total System Balancing industry), revises and replaces all National Standards previously published by the Council.

Availability Sold directly.
Keywords hydronic systems; construction; building; air handling;

ASSOCIATED GENERAL CONTRACTORS OF AMERICA

Hubert Beatty, Executive Vice President

1957 E Street, NW
Washington, DC 20006
(202) 393-2040 FAX: (202) 347-4004

Founded: 1918

Type of Organization Trade Association
Works through other organizations to develop standards

Representation Represented on committees of National Institute of Building Sciences and ANSI

Scope A national trade association that represents general contractors and all related business interests engaged in commercial construction.

Standardization Activities Engages in a wide variety of standards related activity covering fields such as training and competency of onsite construction workers and supervisors, contract documents for use by contractors and owners for a wide range of contractual variations, safety and health procedures for construction sites, federal procurement regulations, and teaching construction skills at the secondary school and college levels. Cooperates with other groups, including ANSI, building trade unions, architects/engineers, and various federal agencies.

Keywords construction; building;

ASSOCIATED LOCKSMITHS OF AMERICA

Charles W. Gibson, Jr., Executive Director

3003 Live Oak Street
Dallas, Texas 75204
(214) 827-1701 FAX: (214) 827-1810

Founded: 1955 Standards Staff: 1

Type of Organization Trade Association
Standards Developer

Standards Development 3 active standards.

Scope Encourages and promotes the voluntary exchange among locksmiths of technical service data on security products; evaluates the position of the locksmith in the security industry; establishes a uniform code of ethics and conducts trade promotion activities.

Standardization Activities Maintains a security Standards Committee which administers the standardization activity and is now working on standards for security devices in relation to locks. Works closely with the American Society for Testing and Materials' program for voluntary standards in locking devices, Committee T-12 on Security Systems and Equipment. Was successful in getting industry rapport to standardize and improve the quality of packaging for key blanks. Recommended a Standard City Ordinance on Building Security. Currently is working on a recommended standard for state licensing or registration of locksmiths. The Key Blank Boxes, Building Security, and Locksmith License are the three current standards of ALA, all considered national in scope.

Availability Distributed directly.

Keywords locksmithing; keys; locks; building; public safety;

ASSOCIATION FOR COMPUTING MACHINERY

Joseph DiBlasi, CEO

1515 Broadway
 New York, New York 10036
 (212) 869-7440 FAX: (212) 869-1228
 Founded: 1947 Standards Staff: 2

Type of Organization Scientific Society
 Standards Developer

Standards Designation ACM prefix.

Scope An international educational and scientific society of 65 000 computer professionals advances the science and art of information processing; promotes free interchange of information between computer scientists and the general public; develops and maintains the integrity and competence of individuals engaged in the information processing profession.

Standardization Activities The Association for Computing Machinery's (ACM) Technical Standards Committee promotes the dissemination and understanding of standards related information in the ACM and to coordinate ACM participation in standards related activities. Much of the committee's work is accomplished by e-mail. Represented on several technical committees of X3-Information Systems. Particularly active in the standardization of programming languages. Member of the ANSI Information Systems Standards Board. Developed SIGGRAPH CORE standard on 3-dimensional computer graphics. A program for processing standards through ANSI is under consideration.

Availability Distributed through ACM Order Department, P.O. Box 64145, Baltimore, Maryland 21264.

Keywords computers; programming languages; computer graphics; information;

ASSOCIATION FOR EDUCATION AND REHABILITATION OF THE BLIND AND VISUALLY IMPAIRED

Kathleen Megivern, Executive Director

206 N. Washington Street
 Alexandria, Virginia 22314
 (703) 836-6060 FAX: (703) 683-2926
 e-mail: aernet@laser.net

Founded: 1853 Standards Staff: 5

Type of Organization Professional Society
 Standards Developer

Certification Maintains a certification service for blindness professionals.

Scope A professional organization of 5000 members which serves educators and rehabilitation specialists of the visually handicapped in the United States and Canada.

Standardization Activities Participates in training institutes, the development of special standards. Cooperate with national and international agencies interested in the education and rehabilitation of visually handicapped children and youth.

Formerly Merger of American Association of Workers for the Blind and Association for Education of the Visually Handicapped (1984)

Keywords visually handicapped; blindness; education; rehabilitation;

ASSOCIATION FOR INFORMATION AND IMAGE MANAGEMENT, INTERNATIONAL

Marilyn Wright, Standards Manager, Standards and Technology

1100 Wayne Avenue, Suite 1100
Silver Spring, Maryland 20910
(301) 587-8202 FAX: (301) 587-2711
e-mail: mwright@aaim.mo.md.us
WWW: <http://www.aaim.org>

Founded: 1943 Standards Staff: 6

**Type of
Organization**

Professional and Trade Association
Standards Developer

**Standards
Development**

Develops standards, recommended practices, and
technical reports.
200 individuals participating in standards activities.
35 active standards and recommended practices.
15 technical reports.
13 technical tools.

**Standards
Designation**

Published documents are designated ANSI/AIIM MS. Tech-
nical Reports are designated as ANSI/AIIM TR. (Prior to July 1,
1983, the Association was known as the National Micrographics
Association and used the acronym NMA. Documents published and
printed prior to then used the NMA acronym, whereas the AIIM
acronym is now used.)

**Government
Adoption**

Documents are submitted for adoption to the Department
of Defense (DoD) or as part of the Federal Information Processing
Standards Series (FIPS).

Certification

No certification, qualification, or accreditation programs

Secretariats

U.S. TAG to ISO/TC 171, Document Imaging Applications. Secretar-
iat to SC 2, Applications, of ISO/TC 171

Scope

Serves its professional and trade members in promoting solution
development, education, and information exchange in the document
management industry.

**Standardization
Activities**

ANSI/AIIM Standards committees and ad hoc groups
collect data, evaluate proposed procedures, tests,
drafts, and publish documents to meet the technical needs of the
document and image management industry. These documents are
published as standards, recommended practices, and technical
reports. Areas covered include the recording, storage, re-
trieval, and distribution of images, quality requirements,
dimensions; product standardization; test methods; definitions for
terms and phrases; and uniform product descriptions.

AIIM Task Forces also develop publicly available specifications to foster interoperability of document management management application. These task forces, such as the AIIM Document Management Alliance, also operate on a fully open and consensus driven basis, but do not develop formal (ANSI or ISO) standards.

Availability Distributed directly, thorough ANSI, and IHS.

Formerly National Microfilm Association (1943)
National Micrographics Association (1975)

Keywords microfilm; micrographics; photography; information processing; scanning; image processing; image management; document management;

ASSOCIATION FOR SUPPLIERS OF PRINTING AND PUBLISHING TECHNOLOGIES

Mary M. Abbott, Director of Standards Programs

1899 Preston White Drive
Reston, Virginia 22091-4367
(703) 264-7200 FAX: (703) 620-0994
e-mail: 70732,2023

Founded: 1933 Standards Staff: 5

Type of Organization

Trade Association
Standards Developer

Standards Development

17 American National Standards.
1 Technical Report.
8 Standards under development.
All standards are processed through ANSI for designation as American National Standards.
Draft standards available directly through NPES.

Standards Designation

Published documents are designated as:
B65 Safety Specifications for Printing Equipment.
CGATS Graphic technology.
IT8 Digital Data Exchange.

Certification

No certification, qualification or accreditation programs.

Secretariats CGATS - Committee for Graphic Arts Technologies Standards.
 B65 - Safety Standards for Printing Equipment.
 ISO/TC 130 WG 2 - Prepress Digital Data Exchange.
 ISO/TC 130 WG 5 - Safety and Ergonomics.
 U.S. TAG to ISO TC 130 - Graphic Technology.

Scope NPES The Association for Suppliers of Printing and Publishing Technologies is a United States trade association serving over 300 members comprised of manufacturers of equipment, systems, software and supplies used in printing, publishing and graphic communications.

Standardization Activities NPES administers 19 standards committees, including both ANSI and ISO committees, developing standards relating to printing and publishing. NPES publishes and sells the ANSI CGATS and ANSI B65 standards and technical reports, as well as ISO standards developed by ISO TC 130.

Availability Standards are distributed directly through NPES and ANSI.

Formerly National Printing Equipment and Supply Association (1991)
 National Printing Equipment Association (1978)

Keywords DDAP; TIFF/IT; SWOP; densitometry; colorimetry; digital data exchange; color data definition; safety; symbology; digital ads; printing inks; graphic technology;

ASSOCIATION FOR THE ADVANCEMENT OF MEDICAL INSTRUMENTATION

Theresa C. Zuraski, Vice President, Standards
 3330 Washington Boulevard
 Suite 400
 Arlington, Virginia 22201
 (703) 525-4890 FAX: (703) 276-0793
 Founded: 1967 Standards Staff: 8

Type of Organization Professional Association
 Standards Developer

Standards Development Standards Developer since 1967.
 2000 members and nonmembers participating in standards activities.
 55 American National Standards, 1 AAMI standard, 1 AAMI recommended practice, and 10 AAMI technical information reports, 3 AAMI monographs.
 Draft standards available for review.

Standards Designation	American National Standards, AAMI Final Standards, AAMI Recommended Practices, AAMI Technical Information Reports, AAMI monographs.
Government Adoption	The Department of Defense has adopted 2 AAMI standards. The Food and Drug Administration utilizes AAMI standards for various regulatory purposes. HCFA has adopted one AAMI standard.
Certification	Certification program for experts in FDA Good Manufacturing Practices (GMPs) and related standards will be introduced in 1996.
Secretariats	<p>IEC/SC 62D, Electromedical Equipment. IEC/SC 62D/WG 6, Cardiac pacemakers. ISO/TC 84/WG 1, Reusable syringes and needles. ISO/TC 84/SC 1/WG 1, Sterile, single use, intravascular catheters. ISO/TC 150/SC 2, Cardiovascular Implants. ISO/TC 150/SC 2/WG 1, Cardiac Valves. ISO/TC 150/SC 2/WG 2, Cardiac pacemakers. ISO/TC 150/SC 2/WG 3, Vascular prostheses. ISO/TC 150/SC 2/WG 4, Blood/gas exchangers. ISO/TC 150/SC 2/WG 5, Renal replacement, detoxification and apheresis. ISO/TC 173/SC 3/WG 2, Aids for Ostomy and Incontinence/Urinary absorbing aids. ISO/TC 194/WG 1, Selection of tests. ISO/TC 194/WG 9, Interactions with blood. ISO/TC 194/WG 11, EO and other sterilization process residuals. ISO/TC 194/WG 12, Sample preparation and reference materials. ISO/TC 198, Sterilization of health care products. ISO/TC 198/WG 2, Radiation Sterilization. ISO/TC 198/WG 3, Moist Heat Sterilization. ISO/TC 198/WG 4, Biological Indicators ISO/TC 198/WG 8, Microbiological Methods ISO/TC 198/WG 9, Aseptic processing ISO/TC 210, Quality management and corresponding aspects for medical devices. ISO/TC 210/WG 1, Application of quality systems to medical devices. ISO/TC 210/WG 3, Symbols, definitions and nomenclature for medical devices.</p>
Scope	An international technical association whose members include over 5000 individual health care practitioners; nearly 200 hospitals, universities, government agencies, laboratories and medical societies; and nearly 180 medical device companies. Mission is to help developers and users with the development and utilization of medical technology. Accomplished through publications, standards, educational conferences, certification of health care professionals, and numerous technical communication programs.

**Standardization
Activities**

Assists the manufacturers of medical devices and the users of medical technology by developing and approving device product standards and guidelines for the safe use and safe environment relative to medical technology. Participates with government, industry, consumers, and the professional community to develop standards. Accredited by the American National Standards Institute. Involved with international standards activities of IEC, ISO, and other international standards organizations.

Develops standards (national and international) in the areas of electromedical equipment, cardiovascular implants, and artificial organs, biocompatibility testing, hospital and industrial sterilization technology, quality management (of medical devices), medical devices for injection, aids for ostomy and incontinence, and devices for general hospital use.

Availability

Distributed directly and through ANSI.

Keywords

medical devices; medical instrumentation; sterilization; safety; health care; dialysis; biological evaluation; quality assurance;

ASSOCIATION OF AMERICAN FEED CONTROL OFFICIALS

Barbara J. Sims, Secretary

Texas Feed and Fertilizer Control Service
P.O. Box 3160
College Station, Texas 77841
(409) 845-1121 FAX: (409) 845-1389

Founded: 1909 Standards Staff: 4

**Type of
Organization**

Professional Society
Standards Developer

**Standard
Development**

14 committees and 35 product investigators active in standard development.
None processed through ANSI.
Draft standards and revisions available for review for nonmembers.

Scope

A nonprofit association of feed control officials whose membership includes persons charged by law with execution of state, provincial, dominion, and federal laws in North America, Hawaii, and Puerto Rico regulating the production, labeling, distribution, and sale of animal feeds and livestock remedies.

**Standardization
Activities**

Directed toward development of uniform feed laws and regulation for implementation by various agencies and development of definitions for feed terms and feed ingredients for use by control officials and the feed industry.

Availability Distributed through Charles P. Frank, Georgia Department of Agriculture, Plant Food, Feed & Grain Division, Capitol Square, Atlanta, Georgia 30334 (404) 656-3637.

Keywords animal feed; livestock remedies; agriculture; government officials;

ASSOCIATION OF AMERICAN PLANT FOOD CONTROL OFFICIALS

D. L. Terry, Secretary

c/o University of Kentucky
Lexington, Kentucky 40546
(606) 257-2668 FAX: (606) 257-7351
e-mail: terrydav@uklans.uky.edu

Founded: 1946

Type of Organization

Professional Society
Standards Developer

Standards Development

Active standards: 5; Standards developer since 1946, 100 volunteer members.
Model legislation and standards available for review.
None processed through ANSI.

Government Adoption

Several states have adopted one or more of the standards and most states accept the principles of uniformity promoted by AAPFCO.

Scope

Officials of agencies concerned with enforcement of laws relating to control of sale and distribution of mixed fertilizer and fertilizer materials. Members in the United States, Canada, and Puerto Rico.

Standardization Activities

Develops model laws and standards for fertilizer labeling, terms and definitions, enforcement policies, and tonnage reporting. These are developed through various committees which solicit input from regulatory officials, professional agronomists, the fertilizer industry, and federal agencies. Model laws for fertilizer, liming, agricultural ammonia, chemigation, and soil amendments are the basis for legislation in a number of states.

Availability Distributed directly.

Formerly Association of American Fertilizer Control Officials

Keywords fertilizers; limestone; agriculture; government officials;

ASSOCIATION OF AMERICAN PUBLISHERS

Nicholas A. Velictes, President

71 Fifth Avenue
New York, New York 10003
(212) 255-0200 FAX: (212) 255-7007

Founded: 1970

Type of Organization Trade Association
Works through other organizations to develop standards

Scope Its members are producers of hardbound and softbound general, educational, trade, reference, religious, scientific, technical, and medical books; instructional materials; periodicals and tests; audio and video tapes, computer software, looseleaf services, electronic products and services including online databases, CD-ROM and CD-I.

Standardization Activities Works with the Book Manufacturers Institute (BMI) and the National Association of State Textbook Administrators (NASTA) to comprise a three-member Advisory Commission on Textbook Specifications (ACTS) which develops the Manufacturing Standards and Specifications for Textbooks (elementary and high school).

Availability Distributed through ACTS.

Formerly Merger of American Educational Publishers Institute and American Book Publishers Council

Keywords books; book publishing; publishing; communications;

ASSOCIATION OF AMERICAN RAILROADS

Edwin L. Harper, President

Information and Public Affairs
50 F Street, NW
Washington, DC 20001
(202) 639-2100

FAX: (202) 639-2286

Founded: 1934

Standards Staff: 5

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

The Manual of Standards and Recommended Practices (19 volumes) contains nearly 1400 documents.

**Standards
Designation**

Specifications are designated with an "M" prefix, Standards with an "S" prefix, Recommended Practices with an "RP" prefix.

Certification

The Research and Test Department is responsible for conducting certification testing of new designs of cars and components, quality control checks on components and materials, lubricant testing, and analysis of failed components.

Scope

Membership consists of 108 railroads, including 9 Canadian, 4 Mexican, and 59 associate members. Association members haul approximately 90 percent of the nation's rail traffic and account for 82 percent of the rail mileage. The association serves its members in matters that require cooperative handling to better enable the railroads to operate as a national system and to contribute toward the purposes of the national transportation policy set forth by Congress. It is an umbrella organization consolidating a number of smaller, more specialized groups and is organized by departments which span the fields of law, operations and maintenance, research and testing, railway economics and statistics, finance and accounting, railway information and public affairs, legislation, and data systems.

**Standardization
Activities**

AAR specifications, standards and recommended practices are issued by the Mechanical Division on authority of the Division's General Committee. The Division and its standards deal with the design, construction, performance, maintenance, repair, and inspection of locomotives, freight cars, and other railroad mechanical equipment that is interchanged among railroads.

The Communications and Signal Division develops recommended practices for engineering, design, construction, operation, and maintenance of frail communication and signal systems. It maintains liaison with appropriate professional organizations such as the American National Standards Institute and the Institute of

Electrical and Electronics Engineers, and with government agencies. It is the national radio frequency coordinator to the Federal Communications Commission for assignment of radio frequencies for the railroads in the United States, and the United States/Canadian coordinator along the border.

The Data Systems Division, through RAILINC Corporation, a subsidiary of AAR, stimulates the development and application of data processing and information techniques and established procedures which promote their efficient and productive use and simplify the interchange of data. This division serves as the principal railroad representative to American National Standards Committee X3 and the Transportation Data Coordinating Committee. Its committees are examining the industry's coding and standards needs in the area of data elements, teleprocessing protocols, etc.

Other AAR activities involved in standardization include the Safety Division's Hazardous Material Systems Division, which tests and classifies, for transportation purposes, materials considered hazardous under government regulation and makes recommendations covering packaging, labeling, and handling en route. The Division maintains field inspector at key locations throughout the United States and Canada.

Standardization and simplification of railroad accounting and treasury practices and requirements is accomplished through the Economics and Finance Department. This department prepares various publications on rules, standard forms, procedures, and codes, as well as economic and statistical data covering railroad operations and their financing.

Availability

The Manual of Standards and Recommended Practices is sold directly.

Keywords

transportation; railroads; accounting; finance; explosives; safety; communications; data processing;

ASSOCIATION OF ASBESTOS CEMENT PIPE PRODUCERS

B.J. Pigg, President

1745 Jefferson Davis Highway
Suite 406
Arlington, Virginia 22202
(703) 412-1153 FAX: (703) 412-1152

Founded: 1972

Type of Organization Trade Association
Works through other organizations to develop standards

Representation 2 member companies represented on standard committees of ASTM and ANWA.
16 member companies active in ISO/TC 77

Scope An international association of producers of asbestos cement pipe. Promotes the use and sale of asbestos cement water and sewer pipe.

Standardization Activities Standards activities are directed toward the development and maintenance of contemporary product, test, and performance standards for asbestos cement water and sewer pipe, including special applications.

Keywords construction; asbestos cement; asbestos cement pipe; sewer pipe;

ASSOCIATION OF BEDDING AND FURNITURE LAW OFFICIALS

A. Richard Geisler, Chief Bedding & Upholstery Division
Product Safety Division

Department of Labor and Industry
Room 1539, 7th and Forster Sts.
Harrisburg, Pennsylvania 17120
(717) 787-6848 FAX: (717) 787-8363

Standards Staff: 1

Type of Organization Professional Society
Standards Developer

Scope Provides a national forum for the discussion of all questions relating to the administration of bedding and upholstered furniture laws as carried on by regulatory officials of the state, commonwealths, territories and possessions of the United States, their political subdivisions, the District of Columbia, and the Dominion of Canada.

Standardization Activities Encourages and promotes the adoption of uniform bedding and upholstered furniture laws, rules, regulations, nomenclature, labeling requirements, and enforcement procedures. Develops tests and adopts standard methods of inspection and sampling of bedding and upholstered furniture and the analyses of filling materials. Develops standard methods of determining the efficiency of insecticides, fumigants, sterilizing and disinfecting processes and equipment as applied to bedding, upholstered furniture, and filling materials. Secures uniformity in the statement of analytical results; promotes, conducts, and encourages research in chemistry and allied fields as these relate to analyses of filling materials used in bedding and upholstered furniture.

Availability Sold directly.

Keywords bedding; upholstered furniture; insecticides; fumigants; sterilization; government officials; consumer products;

ASSOCIATION OF EDISON ILLUMINATING COMPANIES

W.C. Whitt, Executive Director
 600 North 18th Street
 P.O. Box 2641
 Birmingham, Alabama 35291-0992
 (205) 250-2530 FAX: (205) 250-2540
 Founded: 1885 Standards Staff: 1

Type of Organization Trade Association
 Standards Developer

Standards Designation AEIC CS prefix.

Scope A trade association of investor-owned electric utilities in the United States engaged in the distribution of electric service for sale to the general public. Its objective is the advancement of electric service to the public for light, heat, and power.

Standardization Activities Maintains representation on several ANSI Committees and on other similar technical organizations involved in standardization relating to the electric utility industry. Prepares and publishes specifications for high voltage underground cable design used in the industry.

Availability Sold directly.
Keywords energy; electric power; electrical equipment;

ASSOCIATION OF ENGINEERING GEOLOGISTS

Edwin A. Blackey, Jr., Executive Director
323 Boston Post Road
Suite 3D
Sudbury, Massachusetts 01776
(508) 443-4639 FAX: (508) 443-2948
Founded: 1957 Standards Staff: 1

Type of Organization Professional Society
Standards Developer
Scope Promotes high ethical and professional standards in the field of geology; members are graduate geologists and geological engineers.
Standardization Activities Maintains two committees active in standards development. The Building Codes Committee is active on a local level as advisors to county and municipal governments considering code revisions, including code provisions for development of flood plains and tidal marshland. The Committee on Engineering Geology Mapping Symbols develops standard map symbols for use by all states and counties.
Availability Distributed directly.
Keywords geology; mapping; construction;

ASSOCIATION OF HIGHER EDUCATION FACILITIES OFFICERS

Wayne E. Leroy, CAE, Executive Director
1446 Duke Street
Alexandria, Virginia 22314-3492
(703) 684-1446 FAX: (703) 684-2772
Founded: 1914 Standards Staff: 1

Type of Organization Professional Society
Standards Developer

Scope Develops professional standards in the administration, care, operation, planning, and development of college and university physical plants.

Standardization Activities Participates with other organizations in the standards development and review process.

Keywords physical plant; facilities management; construction; maintenance; education;

ASSOCIATION OF HOME APPLIANCE MANUFACTURERS

Jack Weizeorick, Vice President of Engineering Services

20 North Wacker Drive
 Chicago, Illinois 60606
 (312) 984-5900 FAX: (312) 984-5823
 Founded: 1967 Standards Staff: 4

Type of Organization Trade Association
 Standards Developer

Standards Development Standards developer since 1967
 73 members participate in standards activities.
 26 active standards include metric equivalents.
 20 standards ANSI approved.

Standards Designation ANSI/AHAM and AHAM prefixes.

Government Adoption The General Services Administration has adopted several AHAM standards for procurement purposes.

Certification Sponsors five certification programs for Room Air Conditioners, Refrigerator-Freezers, Humidifiers, Dehumidifiers, and Room Air Cleaners

Secretariats IEC SC 59A, Electric Dishwashers
 IEC SC 59H, Microwave Appliances
 IEC SC 61B, Safety of Household Microwave Ovens

Scope An international nonprofit association of companies manufacturing major and portable appliances. Functions in five major areas: product standards and certification, government relations, consumer affairs and communications, statistical reports, and international trade. Other functions included industrial relations and market research.

**Standardization
Activities**

Develops voluntary appliance performance standards and makes safety recommendations to Underwriters Laboratories and the American Gas Association. The Engineering Council determines policy and directs product engineering committees to determine contents of standards with special consideration on product safety. Develops international standards through representation on technical committees of the International Electrotechnical Commission.

Maintains liaison with the Federal Government's National Institute of Standards and Technology, General Services Administration, Food and Drug Administration, Federal Trade Commission, Consumer Product Safety Commission, and Department of Energy.

AHAM standards are national in scope. Their use is promoted through publications and press releases, through certification, and by the American National Standards Institute's recognition.

Availability

Sold directly and through ANSI.

Formerly

American Home Laundry Manufacturer's Association (1916-1966)

Keywords

home appliances; safety; consumer products;

ASSOCIATION OF IRON AND STEEL ENGINEERS

Lawrence G. Maloney, Managing Director

Three Gateway Center
Suite 2350
Pittsburgh, Pennsylvania 15222
(412) 281-6323 FAX: (412) 281-4657

Founded: 1907 Standards Staff: 1

**Type of
Organization**

Technical Society
Standards Developer

**Standards
Development**

11 standards and technical reports.

Scope

Fosters an exchange of ideas toward advancing the iron and steel producing industry in matters related to steel plant engineering, maintenance, and operations including electrical, mechanical, welding, combustion, lubrication, and rolling mills. Engages in standardization, engineering, and computer applications.

**Standardization
Activities**

Develops standards for the steel industry which include D-C Mill Motor Standards, Alloy Steel Chain and Alloy Steel Chain Slings for Overhead Lifting, Specification for Electric Overhead Traveling Cranes for Steel Mill Service, Specification for Design of Ladle Hooks, Insulated Conductors for Crane and Mill Auxiliary Motors, Specifications for Design of Hot Metal Ladles, Brake Standards for Mill Motors, Guide for Design and Construction of Mill buildings, New Steel Pressure-Containing Components for Blast Furnace Installations, Repair of Steel Pressure-Containing Components for Blast Furnace Installation.

Also sponsors engineering activities for the purpose of developing data for future standards and for the improvement of steel mill operating practice.

Availability

Distributed directly.

Formerly

Association of Iron and Steel Electrical Engineers (1936)

Keywords

electrical equipment; industrial equipment;

ASSOCIATION OF OFFICIAL SEED ANALYSTS

Jim Lair, Secretary-Treasurer

University of Nebraska
268 Plant Science
Lincoln, Nebraska 68583-0911
(402) 472-1444 FAX: (402) 472-7904

Founded: 1908 Standards Staff: 2

**Type of
Organization**

Scientific Society
Standards Developer

Scope

Officials of federal, state and provincial seed testing and research laboratories. Develops uniform rules for testing field, vegetable flower and tree seeds, encourages the use of high quality seed, promotes research, and fosters the training of seed analysts.

**Standardization
Activities**

Maintains committees in research, rules, referees, and public service areas to develop standardized methods of seed testing that will permit duplication of results when the same sample is tested by different stations. Quality factors for which tests are made include purity of sample, percentage germination, rate of occurrence of noxious weed seeds, varietal purity, and assaying for fungicidal seed treatment. The Research Committee makes technical information available to the Rules Committee which prepares a new draft revision of the rules every fifth year for approval. The Rules Committee also interprets questionable and

disputed points of the Rules for Testing Seeds. The Referee Committee circulates samples among the member stations to determine whether they are testing in accordance with the rules and to identify any weaknesses in the rules. The Public Service Committee encourages association member to publicize the benefits of the associations's work and stimulate interest in seed testing.

Keywords seed testing; government officials; agriculture;

ASSOCIATION OF OFFICIAL SEED CERTIFYING AGENCIES

Vance H. Watson, Executive Vice President

Box 9812
Mississippi, MS 39762
(601) 325-4567 FAX: (601) 325-8118

Founded: 1919 Standards Staff: 2

Type of Organization

Trade Association
Standards Developer

Certification

The adopted standards are used to establish seed certification regulations by the U.S. Department of Agriculture.

Scope

Establishes and maintains minimum standards and procedures for certifying seed. Membership consists of a representative from each state certifying seed.

Standardization Activities

The Association develops and maintains seed certification minimum standards for genetic purity and identity. These standards and procedures are used by individual state seed certifying agencies in supervising the production and marketing of certified seed and are reviewed annually. Individual state seed certifying agencies may not certify seed for interstate commerce unless the Association's (and USDA) minimum standards are used.

Availability

The Association standards are printed in a certification book and may be purchased directly.

Formerly

International Crop Improvement Association (until 1968)

Keywords

seeds; genetics; agriculture;

ASSOCIATION OF RECORDS MANAGERS AND ADMINISTRATORS

James P. Souders, Executive Director

4200 Somerset Drive
Suite 215
Prairie Village, Kansas 66208
(913) 341-3808
(800) 422-2762 FAX: (913) 341-3742
e-mail: 76015.3151@compuserve.com

Founded: 1956 Standards Staff: 3

**Type of
Organization**

Professional Society
Standards Developer

**Standards
Development**

Guidelines and standards developer since 1981. More than 500 members participate in standards activities. 12 guidelines and 1 standard published.

**Standards
Designation**

ARMA prefix.
ANSI/ARMA prefix.

Scope

An international organization of professionals involved in records and information management. Represents interests in the management of documentation, preservation, disposal, and the efficient handling of recorded information including records management systems, records retention, vital records, records centers, computerized information, micrographics technology, word processing, and others.

**Standardization
Activities**

Directs activities toward fulfilling user-defined requirements of the profession. A seven-person Standards Committee represents government, manufacturers, and users, and is responsible for final approval of Guidelines and Standards developed by working committees. These committees cover the following areas: filing Equipment and Supplies, Filing Systems, Glossary-Records management Terms, Job Descriptions, Records Center Operations, Records Retention, Technology Applications and Vital Records.

ARMA Guidelines are published and made available to the membership and the general public.

Availability

Distributed directly.

Formerly

American Records Management Association

Keywords

records; files; information processing; office products; records management;

ASSOCIATION OF THE NONWOVEN FABRICS INDUSTRY

John Mead, President

1001 Winstead Drive
Cary, North Carolina 27513
(919) 677-0060
Founded: 1968

FAX: (919) 677-0211
Standards Staff: 12

**Type of
Organization**

Trade Association
Standards Developer

Scope

Membership consists of manufacturers of nonwoven fabrics, raw material suppliers, and nonwoven fabric end users. INDA works on a national and international level to promote the nonwoven fabric industry. INDA publishes nonwoven publications, develops conferences, organizes committees to deal with industry issues.

**Standardization
Activities**

Supports the INDA Standard Test Methods Committee, ASTM subcommittee D13.64 under committee D13 on Textiles and provides representative to ISO. Also works with NATCC, TAPPI, and other standards developing organizations.

Availability

Distributed directly.

Keywords

nonwoven fabrics; nonwoven textiles;

ASSOCIATION OF WALL AND CEILING INDUSTRIES - INTERNATIONAL

Michael A. Gardner, Technical Director

307 E. Annandale Road
Falls Church, Virginia 22042
(703) 684-8300

FAX: (703) 534-8307

Founded: 1918

Standards Staff: 1

**Type of
Organization**

Trade Association
Standards Developer - Proprietary and working through technical societies

**Standards
Development**

Standards developer since 1918.
1400 plus members participate in standards activities.

Certification

none

Scope

1400 firms engaged in the application of acoustical tile, drywall, partitions lathing and plastering, fireproofing, and insulation.

**Standardization
activities**

Concentrates on application/installation standards development but also monitors and participates in materials and test methods specifications development.

Technical Subcommittees address standardization of materials, systems and application/installation procedures for acoustic systems, carpentry, coatings, demountable partitions, exterior insulation and finish systems (EIFS), fireproofing, flooring systems, lathing, furring, plastering, texturing, insulation, light gage steel framing systems (load and non-load bearing, integrated ceilings systems, open plan systems, door-frame-hard-ware, and allied fields. Final approval by the Association's Board of Directors when recommended by Technical Committee.

Through the Technical Department, AWCII participates in the activities of ASTM Committees C11; E6; ACIS24.

Availability

Sold directly.

Formerly

Contracting Plasters International Association (1956)
Contracting Plasterers and Lathers International Association (1970)
International Association of Wall and Ceiling Contractors (1976)
Merger of International Association of Wall and Ceiling Contractors (1976) and Gypsum Drywall Contractors International (1979)

Keywords

walls; ceiling; drywall; plaster; acoustic; asbestos; building;

ATM FORUM

Anne M. Ferris, Executive Director

303 Vintage Park Drive
Foster City, California 94404-1138
(415) 578-6993 FAX: (415) 525-0182
e-mail: aferris@atmforum.com

Founded: 1991 Standards staff: 5

**Type of
Organization**

Industry Consortium
Standards Developer

**Standards
Development**

Eleven specifications have been published and a similar number are in various stages of development. None are processed through ANSI. Working documents are available to Forum members.

**Standards
Designation**

ATM xxxv1.0.
Example: ATM UNIV3.1, User-Network Interface.

Certification

None.

Scope The ATM Forum is a nonprofit international consortium of more than 700 suppliers, service providers, and customers accelerating early availability of asynchronous transfer mode (ATM) computer networking technology. All sectors of the computer and communications industries, as well as end users, research organizations, and government agencies work through the Forum to develop interoperability specifications, promoting convergence of existing standards, and fostering industry cooperation and awareness.

Standardization Activities The ATM Forum Technical Committee works with other standards bodies, such as ANSI and ITU-T (International Telecommunications Union) selecting appropriate standards, resolving differences among standards, and recommending new standards when existing ones are absent or inappropriate. New standards are developed by eleven working groups in such areas as network management, traffic management, signaling, and testing.

Availability All ATM specifications except ATM UNIv3.0 and v3.1 are available directly from the ATM Forum. The ATM UNI specifications are available through Prentice Hall, 515-284-6751.

Keywords networking; interoperability; communications; voice; data; video; asynchronous transfer mode; ATM;

AUTOMATED IMAGING ASSOCIATION

James A. Peyton, Manager of Standards Development

900 Victors Way
P.O. Box 3724
Ann Arbor, Michigan 48106
(313) 994-6088 FAX: (313) 994-3338

Founded: 1984 Standards Staff: 2

Type of Organization Trade Association
Standards Developer

Standards Development Standards developer since 1986. 100 representatives participate in the five A15. Standards Subcommittees. Most standards processed through ANSI. Draft standards available for review.

Standards Designation AIA/A15.0x.

Secretariats A15.01, A15.05, A15.07, A15.08, A15.09

Scope Dedicated to promoting the acceptance and productive use of image processing, image analysis and machine vision technologies. The use of these technologies will include both scientific and industrial applications from all aspects of product manufacturing, physical sciences, governmental and research communities. The association's membership includes manufacturers of both related and peripheral products, integrators, end users, consultants and research groups directly involved with these technologies.

Standardization Activities Standardization in the area of image processing technology including System Communication (A15.01), Performance (A15.05), Terminology (A15.07), Sensor Interfaces (A15.08), Marking and Labeling (A15.09).

Availability Draft standards available for review; ANSI-approved standards available from the association and ANSI.

Keywords image processing; machine vision; automatic inspection; automation;

AUTOMATIC METER READING ASSOCIATION

Joyce Paschall, Executive Director

60 Revere Drive, Suite 500
 Northbrook, IL 60062
 (847) 480-9628

FAX: (847) 480-9282

Founded: 1986

Type of Organization Trade Association
 Standards Developer

Representation Work with the Institute of Electrical and Electronics Engineers (IEEE)

Scope A nonprofit nongovernmental educational association whose purpose is to advance the state of telemetry technology for meter reading, energy management, distribution and control. The AMRA exists to further the universal deployment of telemetry services and establish a forum for the research and development of standards, guidelines and practices. Functions in the areas of automatic meter reading and energy management through telemetry technologies (telephone, radio, power line carrier, cable, etc.) primarily for electric, gas and water utilities.

**Standardization
Activities**

The AMRA Standards Committee works with the Institute of Electrical and Electronics Engineers (IEEE) to develop guide lines and voluntary standards designed to (1) foster the interchangeability of and encourage multiple sources for system components; (2) promote compatibility of existing and future products; (3) facilitate component and system enhancements, including new features, options and additional applications; (4) simplify and lower the cost of system implementations, including specification and selection process; and (5) minimize risk to manufacturers and users.

These guidelines and voluntary standards will cover system component inputs and outputs (including data protocols, hardware interfaces, power requirements, and component protection), environmental conditions, installations, and such other areas as the needs of the Association members may dictate.

The Standards Committee will work to (1) promote the continued development, testing, and integration of new automatic meter reading and telemetry services, equipment and procedures; (2) work with the relevant standards setting bodies of associated industries to promote the consistency of related standards and guidelines; and (3) provide a forum for Association members and other interested parties to develop solutions and approaches to standardization and compatibility issues.

Keywords

telemetry; communications; data and information processing; distribution load control; utilities; electrical and electronic equipment; automation;

AUTOMOTIVE INDUSTRY ACTION GROUP

William Fleming, Managing Director

26200 Lahser Road
Suite 200
Southfield, Michigan 48034
(801) 358-3570
WWW: <http://www.aiag.org>

FAX: (801) 358-3253

Founded: 1982

Standards Staff: 50

**Type of
Organization**

Trade Association
Standards Developer

Standards Development	<p>Develops standards, standard business practices, and guidelines.</p> <p>More than 1000 individuals participate in standards activities.</p> <p>17 active standards and standard business practices</p> <p>30 Implementation Guidelines for ASC X12 Standards</p> <p>28 Guidelines.</p> <p>9 white papers.</p> <p>Distribute 6 Chrysler/Ford/General Motors-developed QS 9000 and related documents.</p>
Certification	<p>Administer the certification process associated with the Chrysler/Ford/General Motors Quality System Standards, QS 9000/QSA, Registrar Training</p>
Scope	<p>Seeks to improve the productivity of its members and the North American Automotive Industry by providing an Organization to:</p> <ul style="list-style-type: none"> • Foster cooperation and communication between customers and their suppliers to improve business processes and practices • Address existing and emerging common issues and apply new and current technology to increase the efficiency of the industry • Promote a sense of urgency in adopting developed standards and business practices • Cooperate and communicate with other industry, governmental and technical organizations
Standardization Activities	<p>AIAG Member Committees and Focus Groups (Truck Advisory Group and Construction Industry Action Group) focus on business processes or supporting technologies and methodologies. They conduct research and pilot programs; develop, publish and provide training on standards, conventions, standard business practices, white papers and guidelines in the areas of automatic identification (bar coding), CAD/CAM (STEP), EDI/Electronic Commerce, continuous quality improvement, finance and procurement, materials and project management, returnable containers and packaging systems, and North American Customs (NAFTA Content Reporting).</p>
Availability	<p>Distributed directly.</p>
Keywords	<p>barcode; EDI; electronic commerce; STEP; CAD/CAM; QS 9000; quality; returnable containers;</p>

AUTOMOTIVE LIFT INSTITUTE

E. K. Fox, President

P.O. Box 33116
Indianalantic, Florida 32903
(407) 722-9993 FAX: (407) 722-9931

Founded: 1945 Standards Staff: 3

**Type of
Organisation**

Trade Association
Standards Developer

**Standards
Development**

Develops Standards (since 1947).
25 individuals participating in standards activity.
2 active safety standards and 1 Procedural Guide.
Draft standards available thru ANSI's Public Review procedures.

**Standards
Designation**

Standards are prefixed with "ALI" or with "ANSI/ALI" if they are so adopted, for example "ANSI/ALI B153.1-1990."

**Government
Adoption**

ANSI/ALI B153.1 has been furnished to Federal and State OSHA divisions and is frequently cited by State OSHA agencies. The "ALI Automotive Lift Certification Program," accepted by inspectors in many states, has not received mandated recognition by federal or state agencies.

Certification

ETL Testing Laboratories (Cortland, NY) currently is ALI's third-party provider and administrator for our "ALI Automotive Lift Certification Program" initiated in 1993 for the purpose of testing, listing and labeling automotive lifts that meet the criteria of the ALI "Procedural Guide." The Guide describes test requirements and requires: (1) conformance to ANSI/ALI B153.1 for performance; (2) listing to applicable electrical standards; (3) conformance to a documented quality control procedure; and (4) frequent factory surveillance and plant inspections by the administrator.

Scope

ALI is an association open to U.S. and Canadian manufacturers of automotive lifts and companies which are the sole domestic distributors of an automotive lift line that is manufactured elsewhere. ALI has 20 members which sell in excess of 85 percent of all units shipped annually in the United States and Canada. Most ALI activities, services and publications relate to automotive lift user safety.

**Standardisation
Activities**

ANSI/ALI B 153.1 (1990) has been sponsored by ALI since it was first adopted in 1947 as CS-142. It was then a Commercial (construction) Standard jointly developed with the DOC's Bureau of

Standards. It first became an ANSI Safety (performance) Standard in 1974 (revised 1982 and 1990).

ALI ALOIM-94 is a new industry standard covering operation, inspection and maintenance of lifts. It was submitted in 1995 for adoption as an ANSI Standard (Canvass Method).

ALI's "Procedural Guide for the Automotive Lift Institute Certification Program" was first adopted in 1993 and is the cornerstone for a new industry standard that, when adopted, will specify third-party testing, listing and labeling of automotive lift industry products.

Availability Available from ALI; ANSI/ALI B153.1-1990 also through ANSI.

Keywords automotive lift; vehicle hoist; garage safety;

AUTOMOTIVE REFRIGERATION PRODUCTS INSTITUTE

Frank Allison, Executive Director

P. O. Box 470462

Fort Worth, Texas 76147-9462

(817) 338-1161

FAX: (817) 338-1451

Founded: 1983

Standards Staff: 2

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Founded September, 1983 to develop Performance standards for the Automotive Refrigeration Industry.

Scope

Members are manufacturers and suppliers of automotive refrigerants, also container manufacturers, packagers and distributors, and those manufacturers of parts and tools necessary to assemble and test automotive refrigeration products.

Keywords

automotive refrigeration; air-conditioning;

BAKING INDUSTRY SANITATION STANDARDS COMMITTEE

Barbara Chalik, Secretary-Treasurer

401 North Michigan Avenue
Chicago, Illinois 60611
(312) 644-6610

FAX: (312) 321-6869

Founded: 1949

Standards Staff: 3

**Type of
Organization**

Technical Society
Standards Developer

**Standards
Development**

42 active standards.

Certification

Upon application, equipment is certified in accordance with the procedure set forth by the Certification Board. Standards are used by manufacturers and enforcement agencies.

Scope

A nonprofit organization dedicated to achieving sanitation in the baking industry. It is supported by trade associations representing manufacturers of baking machinery for wholesale and retail uses, and interested professional sanitarian and engineering organizations. Writing and publication of standards and certification of equipment promoting the sanitary design, construction, and installation of food-processing equipment are the only purposes and functions of this committee.

**Standardization
Activities**

Develops sanitation standards for baking equipment and is the recognized sanitation standards organization for the baking industry. Government and industry representatives work together in preparing and editing these standards. Task committees are appointed for each specific standard or revision. Final task committee proposals are acted on by the general committee and the BISSC Board of Directors. BISSC standards are published every 4 years in book form. Latest edition: 1994.

Availability

Distributed directly.

Keywords

baking equipment; machinery; sanitation;

BATTERY COUNCIL INTERNATIONAL

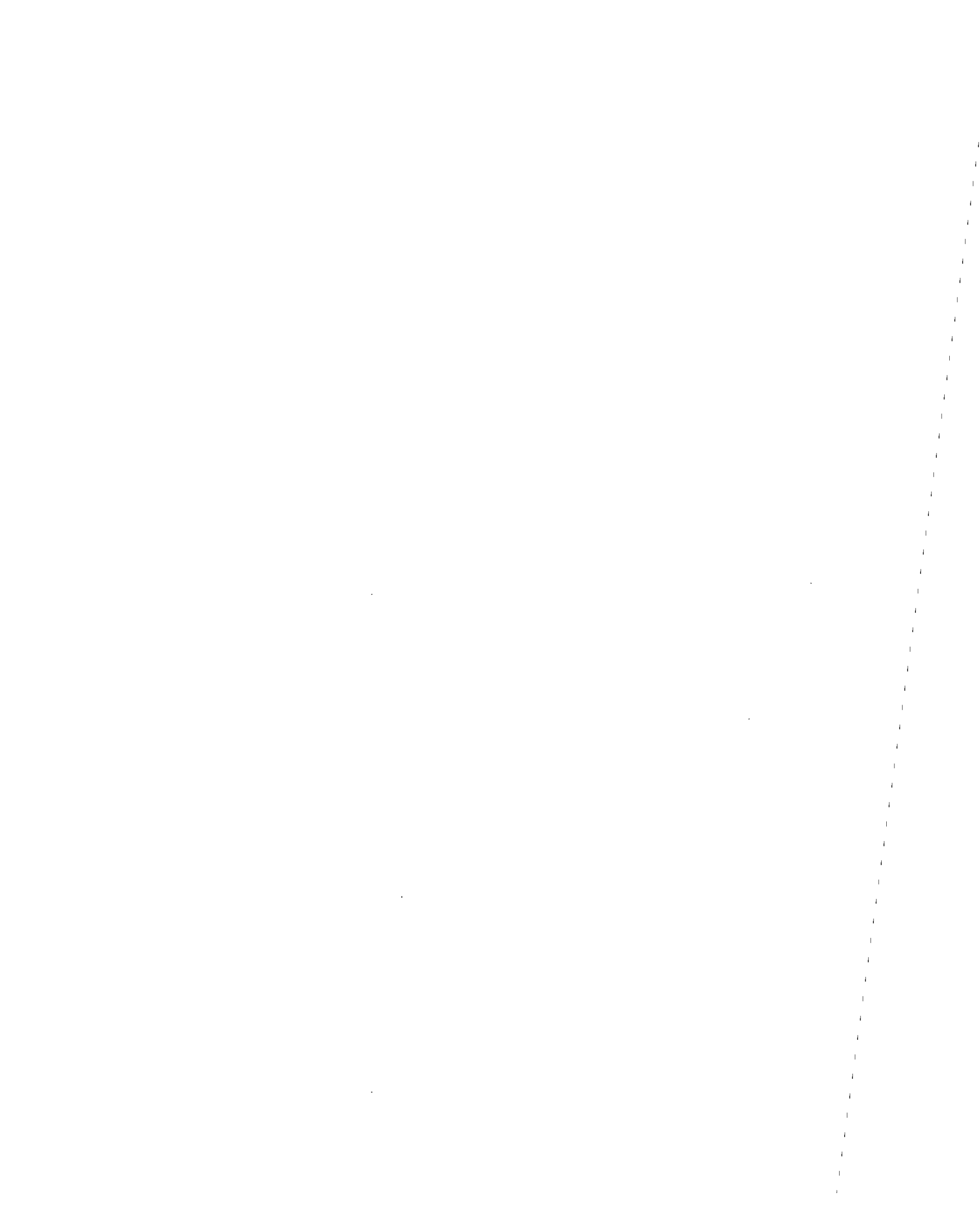
Edward M. Craft, Executive Secretary

401 North Michigan Avenue
Chicago, Illinois 60611
(312) 644-6610

FAX: (312) 321-6869

Founded: 1924

Standards Staff: 1



Type of Organization Trade Association
Works through other organizations to develop standards

Representation Works with SAE, and International Electrotechnical Commission.

Scope Manufacturers, suppliers of materials, and national distributors of lead-acid storage batteries.

Standardization Activities Through committees, battery standards and specifications are recommended for use by the industry. The Environmental, Industrial Health, and Technical Committees work with government organizations to help set standards and regulations. Publishes a Battery Replacement Data Book. Revised yearly, this book outlines the types of battery sizes and specifications used in automobiles, both foreign and domestic.

Formerly The National Battery Manufacturers Association (1940)
The Association of American Battery Manufacturers (1970)

Keywords lead-acid; battery; electrical equipment;

BELLCORE - BELL COMMUNICATIONS RESEARCH

Cliff Halevi, Project Director-Standards

Morris Corporate Center
455 South Street
Morristown, New Jersey 07960-6438
(908) 758-2000 FAX: (908) 758-4545
e-mail: ak@cc.bellcore.com

Type of Organization Research Institute
Standards Developer

Standards Development Bellcore develops proposed Generic Requirements for equipment or services. These requirements are utilized on a voluntary basis by members of industry. Bellcore has developed more than 1000 Generic Requirements.

Certification Bellcore's Certification and Registration service provides a client with a mark recognizing that a product has capabilities that are 100 percent conformant with a specified set of criteria. The criteria are derived from widely recognized sources such as standards promulgated by recognized standards bodies or generic requirements proposed and published by Bellcore. Once certification is approved, the Bellcore mark can be displayed on a product subject to the terms of an agreement. A Bellcore directory lists

such products. Registration relates to quality processes used by a client at a specific site, and the 100 percent conformance of those processes to specified process criteria. If approved, the client may use the Bellcore Registration Mark on literature and in advertising under an appropriate agreement. The registration is also listed in an appropriate Bellcore directory. Periodic site visits, tests and inspections are performed to determine whether the product or process adheres to the specifications of the original test sample and the certification or registration remains valid.

**Standardization
Activities**

Interoperability and network integrity are key elements of the information technology and telecommunications needs of Bellcore clients. In addressing client needs, Bellcore experts provide clients with solutions for new or emerging services, capabilities, and technologies. Bellcore participates in and provides leadership to a number of United States and international standards bodies. Clients for Bellcore's standards program receive timely reports on activities in such standards bodies as T1-Telecommunications, X3-Information Technology, Internet Engineering Task Force, Telecommunications Industry Association, Institute for Electrical and Electronics Engineers, and the International Telecommunications Union. These reports highlight and provide analysis of issues of particular interest to clients.

Availability

Publicly available Bellcore technical information can be ordered through:
Bellcore Customer Service
8 Corporate Place
Fiscataway, New Jersey 08854-4156
1-800-521-CORE (2673) (USA and Canada)
908-699-5800 (all Others)
WWW Site: <http://www.bellcore.com>.

Keywords

telecommunications; information technology; networking; certification; generic requirements; information infrastructure; internet; switching; signaling; digital services; fiber optics; synchronous optical network; network integrity; disaster management; security; asynchronous transfer mode; ISDN; ATM; SONET;

BILLIARD CONGRESS OF AMERICA

Bruce D. Cottew, Executive Director

1700 South First Avenue
Suite 25A
Iowa City, Iowa 52240
(319) 351-2112 FAX: (319) 351-7767
e-mail: <http://www.netins.net/showcase/bcahome/>
Founded: 1948 Standards Staff: 3

**Type of
Organization**

Standards Developer

Scope

Organization of players, retailers, proprietors, manufacturers, distributors, and importers of billiards. Serves as a national clearinghouse for billiard activities; makes rules and interpretations.

**Standardization
Activities**

Prepares standards for equipment and rules for billiard and pool games, as well as tournament play. Maintains a Specifications Committee and Rules Committee to coordinate these activities. Publishes the Official Rule Book for all Pocket and Carom Billiard Games.

Availability

Distributed directly.

Formerly

National Billiard Council (1963)

Keywords

billiards; recreation;

BINDING INDUSTRIES OF AMERICA

70 East Lake Street
Chicago, Illinois 60657
(312) 372-7607 FAX: (312) 704-5025
Founded: 1960 Standards Staff: 1

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

20 volunteer members participate in developing standards.
3 current, active standards; all processed through ANSI.
Draft standards are available for review.

**Standards
Designation**

BIA/ANSI/V101.

Scope 350 member trade association organized to provide education and training, networking, standards development and other information through newsletters and magazines to trade graphic finishers, loose-leaf manufacturers and suppliers to those industries.

Standardization Activities Standards developed for vinyl, paper board and metals for use in manufacturing of 3-ring binders. Vinyl standards include testing for cold crack, conventional stability, gauge-taber stiffness, etc. Board and metals from standards.

Availability Sold directly.

Keywords three-ring binders; office supplies;

BIOLOGICAL STAIN COMMISSION

David P. Penney, Ph.D., Treasurer

Department of Pathology, Box 626
 The University of Rochester Medical Center
 Rochester, New York 14642
 (716) 275-2751 FAX: (716) 273-1027
 e-mail: dpenney@cc.urmc.rochester.edu

Founded: 1922 Standards Staff: 1

Type of Organization Scientific Society
 Standards Developer

Standards Development 70 standards.

Certification The commission maintains a program of stain certification. Manufacturers and distributors voluntarily submit samples for examination. If the sample meets the commission's specifications, it is approved for marketing as a Certified Biological Stain, and the commission issues certification labels to be affixed to bottles in which it is sold. Certification is on a batch basis, the labels issued by the commission bearing distinctive certification numbers identifying the specific batches with which they are to be used. A sample of each batch is kept on permanent file, and the commission investigates complaints of any unsatisfactory results obtained with a certified stain.

Scope A nonprofit organization of professional scientists in biology, medicine, and related fields devoted to the establishment of standards for biological stains.

Standardization Activities Establishes standard specifications for the identification, purity, performance and labeling of the more important biological stains, in order that they may be relied upon as standard tools in biological and medical research. International in scope, the commission has the cooperation of scientific societies whose interests lie in this field, as well as the interest and cooperation of manufacturers and distributors of biological stains.

Availability The Commission's standards are included in the appendix of Conn's Biological Stains.

Formerly Commission on Standardization of Biological Stains (1944)

Keywords biological stains; testing; medical instruments;

BLUE ANCHOR

Dennis N. Icardi, President

P.O. Box 15498
 Sacramento, California 95851
 (916) 929-3050 FAX: (916) 921-9362

Founded: 1901 Standards Staff: 3

Type of Organization Agricultural Cooperative
 Standards Developer since 1930

Scope A fresh fruit marketing cooperative handling the fruit of 1000 growers organized into local associations and contract shippers. All fruit is subject to the standardization program.

Standardization Activities Issues standards on all deciduous tree fruit and table grape commodities. Updates the Rules and Regulations for each annual season. The standardization policy is set by a Standardization Committee and enforced by authorized agents of the Field Department. Standards required for company members only. Works with various federal and state marketing orders covering pears, plums, peaches, nectarines, and grapes.

Formerly California Fruit Exchange

Keywords food; fruit marketing; agriculture;

BOOK INDUSTRY STUDY GROUP

Stephen P. Snyder, Executive Vice President

45 William Street, Suite 245
Wellesley, MA 02181-4007
(617) 239-0103 FAX: (617) 239-0106

**Type of
Organization**

Trade Association
Standards Developer

Scope

A nonprofit organization whose members come from all areas of the publishing industry. Specializes in industry research.

**Standardization
Activities**

Committees review existing standards and select those appropriate for the book industry. Endorsed Bookland EAN bar code for books, Code 128 Representation of the ANSI/NISO standard for serial identification, and the UCC/EAN shipping container standard for bar coding book cartons and shipping containers. The Book and Serial Industry Systems Advisory Committees (BISAC and SISAC) develop standards, some of which are passed on to the National Information Standards Organization (NISO) to become ANSI/NISO standards. BISAC and SISAC developed unique electronic data interchange formats and are now mapping data elements for ASC X12 conversion.

Keywords

books; serials; publishing; communications; data and information processing;

BOOK MANUFACTURERS INSTITUTE

Stephen P. Snyder, Executive Vice President

45 William Street
Suite 245
Wellesley, MA 02181-4007
(617) 239-0103 FAX: (617) 239-0106

Founded: 1933 Standards Staff: 2

**Type of
Organization**

Trade Association
Standards Developer

**Government
Adoption**

Quality standard adopted by most states

Secretariats

Advisory Commission on Textbook Specifications (ACTS)

Scope

A trade association for book manufacturers and suppliers of book materials and book manufacturing equipment.

Standardization Activities Together with the Association of American Publishers and the National Association of State Textbook Administrators, provides delegates to the Advisory Commission on Textbook Specification (ACTS) which meets twice each year. ACTS has developed a set of manufacturing standards and specifications which must be met before the purchase of a particular textbook will be considered by most state adoption agencies. This booklet, titled Manufacturing Standards and Specifications for Textbooks (MSST), contains quality standards and specifications for paper, printing, and binding, and provides sample forms which should be used by both the state agencies and the publishers of textbooks. The MSST covers only elementary and high school textbooks.

Availability Distributed directly.

Formerly Employing Bookbinders of America (1933)

Keywords books; textbooks; education; communications;

BRASS AND BRONZE INGOT MANUFACTURERS

Celine A. Stachura, Administrative Assistant
 200 S. Michigan Avenue
 Room 1100
 Chicago, Illinois 60604-2480
 (312) 372-4000 FAX: (312) 939-5617
 Founded: 1989

Type of Organization Trade Association
 Works through other organizations to develop standards

Representation ASTM, SAE, foundry societies, and others

Scope Manufacturers of ingot brass and bronze for the foundry industry.

Standardization Activities Cooperates with the American Foundrymen's Society, the Non-Ferrous Founders' Society, and affiliated and similar organizations in developing methodology and standards for the production of copper base alloy castings. Participates with ASTM, SAE, Copper Development Association, and military and federal specifications bodies and others in the development of standards and specifications covering ingot brass and bronze. Involved in development of standard reference materials for NIST and has sponsored and directed basic research relating to copper based alloys. Maintains a Technical Committee to consider related subject matter.

Formerly Non-Ferrous Ingot Metals Institute; Brass and Bronze Ingot Institute (1928); Association of Brass and Bronze Ingot Manufacturers (1950).

Keywords brass; bronze; casting alloys; materials;

BRICK INSTITUTE OF AMERICA

J. Gregg Borchelt, P.E., Vice President of Engineering and Research

11490 Commerce Park Drive
Suite 300
Reston, Virginia 22091
(703) 620-0010 FAX: (703) 620-3928
Founded: 1934 Standards Staff: 4

Type of Organization Trade Association
Standards Developer

Scope National association of brick manufacturers and the national authority on brick construction. Promotes the further and proper use of brick.

Standardization Activities Standards development, review, writing, and promulgation are the responsibilities of the Engineering and Research Division. Maintains an exchange and liaison with similar organizations in other countries. Also maintains close liaison with government agencies writing standards in the construction industry field, National Institute of Standards and Technology, National Institute of Building Sciences, and the Departments of Housing and Urban Development, Defense, Energy, Labor, and Commerce. Works with other standards writing organizations in the development of standards involving or related to Brick Masonry as follows: American Concrete Institute, American Society of Civil Engineers, The Masonry Society - ACI 530, ASCE 5, Tms 402 Building Code Requirements for Masonry Structures, ACI 530.1, ASCE 6, TMS 602. Specifications for Masonry Structures; American Society for Testing and Materials - Committees C-12 on Mortar for Unit Masonry, C-15 on Manufactured Masonry Units, D-1 on Paint and Related Coatings and Materials, E-5 on Fire Testing and E-6 on Performance of Building Constructions; Building Seismic Safety Council, National Fire Prevention Association

Engaged in research for the development of new standards dealing with masonry design and applications. Currently working on veneer and limit states design standard for masonry in conjunction with the Masonry Standards Joint Committee of the American Concrete Institute, the American Society of Civil Engineers, and The Masonry Society.

Availability Distributed directly.
Formerly Structural Clay Products Institute
Keywords masonry; brick; construction; building;

BUILDERS HARDWARE MANUFACTURERS ASSOCIATION

Peter Rush, Executive Director

c/o Association Management Group
355 Lexington Avenue
New York, New York 10017
(212) 661-4261 FAX: (212) 370-9047

Founded: 1925 Standards Staff: 4

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1966.
70 members active in standards development.
23 active standards.
23 processed through ANSI.
4 standards in development.

**Standards
Designation**

ANSI/BHMA prefix.

**Government
Adoption**

The Department of Defense has adopted all BHMA sponsored ANSI standards.

Certification

Sponsors three certification programs; one for locks, one for door closers and one for exit devices. ETL Testing laboratories is administrator and testing agency for locks and closers. Underwriters Laboratories is the administrator and testing agency for exit devices.

Scope

A national trade association representing manufacturers of builders hardware. Provides programs for its members in the areas of industrial relations, management, and statistical programs.

**Standardization
Activities**

Is accredited by ANSI to develop standards for builders hardware using the canvass method. Participates on NFPA and ASTM Committees.

Availability Distributed directly, through ANSI, Door and Hardware Institute, and IHS.

Formerly Hardware Manufacturers Statistical Association (1925-1961)

Keywords hardware; buildings;

BUILDING OFFICIALS AND CODE ADMINISTRATORS INTERNATIONAL

Paul K. Heilstedt, PE, Chief Executive Officer

4051 West Flossmoor Road
 Country Club Hills, Illinois 60478-5795
 (708) 799-2300 FAX: (708) 799-4981
 Founded: 1915 Standards Staff: 80

**Type of
 Organization**

Professional Society
 Standards Developer

**Standards
 Development**

Promulgates the BOCA National Code Series of model codes for reference adoption by municipal and state governments.

**Standards
 Designation**

BOCA National Building Code; BOCA National Mechanical Code; BOCA National Plumbing Code; BOCA National Fire Prevention Code; BOCA National Property Maintenance Code; BOCA National Energy Conservation Code.

**Government
 Adoption**

Codes are adopted by 18 states and 5000 local governments, predominantly in East and Midwest portions of the United States

Certification

Maintains a voluntary education and certification program for construction code officials and other members.

Secretariate

Council of American Building Officials (CABC) One and Two Family Dwelling Code.
 International Code Council (ICC)

Scope

A nonprofit municipal service membership organization involved in the field of code administration and enforcement, and community development. Goals are to serve the public by advocating the use of safe, suitable, modern construction techniques and materials, through its model codes program; and to serve jurisdictions and their code administrators by providing technological know-how and services related to all specialty areas of code administration and enforcement, in addition to a complete model codes maintenance program.

Membership services include code interpretations, materials and product evaluation reports, plan review, education programs and documents, and administrative reviews. The BOCA National Codes reference and adopt hundreds of consensus standards produced by standards writing organizations.

Standardization Activities An annual code development process for each of the BOCA Codes permits anyone to propose a change and participate in the deliberations. All activities are in support of the use of the codes. All activities carried on by the technical and professional staff under the direction of its Chief Executive Officer, appointed by the Board of Directors. BOCA codes state performance requirements for materials under given conditions, and establish evaluation criteria, resulting in reduced construction costs and allowing ingenuity on the part of the designer.

Availability Distributed directly. All codes produced every three years in new editions (current 1995).

Formerly Building Officials Conference of America (1970)

Keywords safety; building; codes; plumbing code; mechanical code; fire code; maintenance code; energy conservation; construction; government officials; health;

BUILDING OWNERS AND MANAGERS ASSOCIATION INTERNATIONAL

Michael Jawer, Assistant Vice President, Government and Industry Affairs

1201 New York Avenue NW.
Suite 300
Washington, DC 20005
(202) 408-2684 FAX: (202) 371-0181
Founded: 1908 Standards Staff: 1

Type of Organisation Trade Association
Standards Developer

Standards Development Standards developer since 1915.

Secretariats ANSI Z65.1 Method for Measuring Floor Area in Office Buildings

Scope A trade association serving owners and managers of commercial real estate, primarily office buildings. Studies operating costs, rental conditions, occupancy, fire and safety, and other conditions affecting the office building industry.

Standardization Activities Publishes the ADA Compliance Guidebook; ADA Answer Book; Refrigerant Manual; Emergency Planning Guidebook. Active as a member of three model code organizations (BOCA, ICBO, SBCCI) and the National Fire Protection Association. Also concerned with ASHRAE Standards 15 (Mechanical Refrigeration) and 62 (Indoor Air Quality). Member of the National Institute of Building Sciences (NIBS).

Availability Distributed directly and through ANSI.

Formerly National Association of Building Owners and Managers (1908)
Building Owners and Manager Association International (1968)

Keywords rentable space; unrentable space; floor measurement; high-rise office buildings; energy efficiency; building or facilities management; accessibility; indoor air quality; asbestos; refrigerant management;

BUSINESS AND INSTITUTIONAL FURNITURE MANUFACTURERS ASSOCIATION

Russell R. Coyner, Executive Director

2680 Horizon Drive, SE
Suite A1
Grand Rapids, Michigan 49546
(616) 285-3963 FAX: (616) 285-3765
Founded: 1973 Standards Staff: 6

Type of Organization Trade Association
Standards Developer

Standards Development Standards developer since 1973.
240 member company representatives participating in standards development and maintenance activities.
7 active standards.
6 ANSI/BIFMA Safety and Performance Standards.
1 BIFMA upholstered Furniture Flammability Standard.

Secretariat US TAG ISO/TC 136

Standards Designation ANSI/BIFMA prefix or BIFMA.

Government Adoption The General Services Administration has adopted ANSI/BIFMA standards for use in Commercial Item Descriptions. Memo of Standards Harmonization with Canadian General Standards Board.

Certification Voluntary certification

Scope A national trade association that represents the United States companies and companies in other nations engaged in the manufacture of office and institutional furniture. Functions on a national and international level, representing its membership in a wide range of engineering, statistical, and other relationships with public and government agencies.

Standardization Activities Develops standards for the performance and testing of office and institutional furniture including tests for: 1. office chairs, 2. lateral files, 3. vertical files, 4. desks, 5. lounge furniture, and 6. panel systems furniture, and upholstered furniture flammability for non live-in occupancies. Maintains an Engineering Standards Committee with many subcommittees. Works through other organizations to develop standards specifically, Human Factors and Ergonomics Society. Active in Ergonomics, Environmental regulations and Product Liability areas as well.

Availability Distributed directly and through ANSI.

Keywords furniture; office furniture; institutional furniture; office products; environments; desks; chairs; files; panel systems; ergonomics;

CAN MANUFACTURERS INSTITUTE

Robert R. Budway, President

1625 Massachusetts Avenue NW.
Washington, DC 20036
(202) 232-4677

FAX: (202) 232-5756

Founded: 1939

Standards Staff: 2

Type of Organization

Technical Society
Standards Developer

Scope

A nonprofit membership corporation representing United States manufacturers of all metal cans. The membership is concerned with government specifications for cans and legislation affecting cans and can standards.

Standardization Activities Maintains Can Standards Committee, which develops standards on sanitary cans for sizes in general demand. Creates ad hoc subcommittees as necessary to study and/or recommend specific standards for full committee action. Publishes Recommended CMI Voluntary Industry Can Standards. Recommended standards are strictly voluntary, but conforming is encouraged as being beneficial to can manufacturers and can users.

Availability Distributed directly.

Keywords can manufacture; packaging;

CARPET AND RUG INSTITUTE

E. Ken McIntosh, Director of Technical Services

Box 2048

Dalton, Georgia 30722

(706) 226-3877

FAX: (706) 278-8835

Founded: 1963

Standards Staff: 4

Type of Organization Trade Association
Works with other organizations to develop standards

Representation AATCC, ASTM, NFPA and other standard development organizations

Scope Membership consists of manufacturers representing 95 percent of all carpet produced in the United States, and suppliers of raw materials and services. Works on a national and international level to promote carpet and rugs, to develop standards to be used by the industry, installers, and end users, and to provide satisfaction with carpet and rugs.

Standardization Activities Participate in development of standard tests used by industry and interested parties to test various components or characteristics of carpets and rugs.

Formerly American Carpet Institute and the Tufted Textile Manufacturers Association

Keywords carpet; rugs; consumer products;

CAST IRON SOIL PIPE INSTITUTE

William H. LeVan, Executive Vice President

5959 Shallow Ford Road
Suite 419
Chattanooga, Tennessee 37421
(615) 892-0137 FAX: (615) 892-0817

Founded: 1949 Standards Staff: 2

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1949.
Technical Committee develops Standards pending approval of the
Institute's Board of Directors; ASTM A74-94, ASTM A898-94, CISPI
301-90, CISPI 301-95, endorsed by CISPI.

**Standards
Designation**

CISPI prefix.

**Government
Adoption**

HUD, WW-P-401E; PBS (PCD) 15410; DOD 4270.21; CEGS
15400; CE 300.01; CE 300.02; CE 600.01; NAVFAC TS-15301; and
NAVFAC TS-15401

Certification

No certification, qualification, or accreditation programs

Scope

Aids the United States plumbing industry in cooperation with the
soil pipe manufacturers. Efforts include product improvement,
standardization of soil pipe and fittings, and testing, evalua-
tion, and development in the interest of public health and safety.

**Standardization
Activities**

Develops standards for cast iron soil pipe and fittings
which are accepted throughout the United States. These standards
set dimensions and specifications which provide interchangeability
between all manufacturer's pipes and fittings. The CISPI Stan-
dards are national in scope. The Technical Committee administers
CISPI's Standardization Activities.

The Institute's Technical Committee meets two times a year to
review standards, engage in research and development activities,
and update CISPI publications.

Availability

Through ASTM and plumbing wholesalers and distributors.

Keywords

cast iron; plumbing; sanitation; construction; building;

CEDAR SHAKE AND SHINGLE BUREAU

Jack W. Davidson, President

515 116th Avenue, NE, Suite 275
Bellevue, Washington 98004
(206) 453-1323 FAX: (206) 455-1314

Founded: 1915 Standards Staff: 3

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Designation**

Grading Rules for Certi-Split Red Cedar Shakes - 1985.
Grading Rules for Certigrade Red Cedar Shingles - 1984.
Grading Rules for Cert-Sawn Red Cedar Shakes - 1981.

**Government
Adoption**

Adopted by all national model building codes which are now recognized by the U.S. Department of Housing and Urban Development (HUD)

Certification

Contracts for unannounced third-party inspections of over 100 shake and shingle mills in the northwest United States and Canada. Prints and issues labels for product identification for use by complying mills.

Scope

Membership includes manufacturers, distributors and users of red cedar shakes and shingles. In addition, inspects and labels shakes and shingles manufactured from species other than red cedar under the auspices of the Wood Shake and Shingle Association, an in-house subsidiary. Promotes the acceptance and use of shake and shingle roofing and siding materials through advertising and trade promotion.

**Standardization
Activities**

Develops and revises standards relating to the quality, packaging and application of shakes and shingles.

Formerly

Red Cedar Shingle and Handsplit Shake Bureau - 1988
RCSHSB formed from merger of Red Cedar Shingle Bureau and Handsplit Cedar Shake Association - 1963
Red Cedar Shingle Bureau formed in 1915

Keywords

wood products; roofing; side wall; grading rules; inspection; lumber; building;

CEILINGS AND INTERIOR SYSTEMS CONSTRUCTION ASSOCIATION

Jan Foxen, Executive Vice President

579 West North Avenue
Suite 301
Elmhurst, Illinois 60126
(708) 833-1919 FAX: (708) 833-1940
Compuserve 75031,2577

Founded: 1949 Standards Staff: 1

Type of Organization Trade Association
Works through other organizations to develop standards

Representation ASTM

Scope An international organization serving the needs of specialty subcontractors who sell and install ceiling systems, as well as other related products and systems.

Provides programs for exchanging information about the industry and its trends, and develops working alliances with other organizations within the construction contracting industry to deal with common problems.

Standardization Activities Participated in the development of the American Society for Testing and Materials (ASTM) Standard Specification for Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings (ASTM C635-69), and Standard Recommended Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels (ASTM C536-69). Also active in the development of Recommended Standards for Seismic Restraint of Direct-Hung Suspended Ceiling Assemblies.

Formerly National Acoustical Contractors Association (1969)
Ceilings and Interior Systems Contractors Association (1949)

Keywords acoustical tile; ceilings; buildings; contractor;

CEMENTED CARBIDE PRODUCERS ASSOCIATION

Jeffery Wherry, Commissioner

30200 Detroit Road
Cleveland, Ohio 44145
(216) 899-0010 FAX: (216) 892-1404

Founded: 1955 Standards Staff: 3

Type of Organization Trade Association
Standards Developer

Standards Development 30 active standards.

Standards Designation ANSI B212.x.

Secretariats Promulgates its documents through ANSI/ASC B212. Accredited Standards Committee for cemented carbide.

Scope Manufacturers of cemented tungsten carbide cutting tools, dies, and wear parts.

Standardization Activities Actively engaged in standardization activities through ANSI/ASC Committee B212, TC-1; develops standards dealing with the dimensional, physical, metallurgical, and chemical aspects of cemented carbide products; cooperates with ISO, ASTM, NIST, and others in standards development; standards include turning tools, wire, bar and tube drawing dies; and sampling and testing methods for hard metals.

Availability Distributed directly.

Keywords carbide; materials, manufacturing;

CERTIFIED AUTOMOTIVE PARTS ASSOCIATION

Jack Gillis, Executive Director

1518 K Street, NW.
Suite 305
Washington, DC 20005
(202) 737-2212 FAX: (202) 737-2214

Founded: 1987 Standards Staff: 2

Type of Organization Certification Organization
Standards Developer

Certification Included in certification is inspection of the factory, evaluation of quality control manuals used in the manufacture of the parts, inspection and review of the manufacturing process, materials testing, corrosion testing of metal parts and the evaluation of the fit and finish of the final product.

Scope The CAPA program certifies sheet metal and plastic auto body parts. The program is open to all manufacturers of such parts. There are currently over 1100 competitive aftermarket auto body

parts which have been certified as meeting CAPA's standards for quality, fit and finish.

**Standardization
Activities**

Standards are developed under the auspices of CAPA's Technical Committee which is made up of representatives from the insurance, auto body parts manufacturers, and parts distribution industries. These standards are developed with the assistance of independent technical testing laboratories.

Keywords

aftermarket auto body parts; transportation; automobile; manufacturing;

CERTIFIED BALLAST MANUFACTURERS

M. C. Davies, Secretary

1422 Euclid Avenue
Suite 772
Cleveland, Ohio 44115
(216) 241-0711

FAX: (216) 241-0713

Founded: 1939

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Representation

ANSI, UL.

Certification

Certification program for ballasts operating standard fluorescent lamps. Open to any manufacturer who wishes to qualify. To be certified CBM, ballasts must meet performance requirements of ANSI specifications C82.1, including the electrical requirements specified in the C78 standard for the lamp type to be operated. Ballasts must also be UL listed and High Power Factor. Compliance is repeatedly verified by ETL Testing Laboratories, an independent testing organization, which periodically selects samples at random from manufacturers' current CBM production and tests them, as prescribed in ANSI C82.2 and C82.3.

Scope

Major producers of ballasts for fluorescent lamps. Promotes fluorescent lighting by encouraging the manufacture of ballasts which provide quality performance.

**Standardization
Activities**

Works through ANSI to develop standards for fluorescent ballasts.

Formerly Ballast Advisory Committee (1949)
Keywords fluorescent lighting; ballasts, electrical equipment;

CHAIN LINK FENCE MANUFACTURERS INSTITUTE

Mark Levin, CAE, Executive Vice President

1776 Massachusetts Avenue NW,
Suite 500
Washington, DC 20036
(202) 659-3537 FAX: (202) 857-1220
Founded: 1960 Standards Staff: 1

Type of Organization Trade Association
Standards Developer

Scope Provides a forum to exchange ideas; promotes the use of chain link fence; collects statistics and works with consumers to develop guidelines for fence products.

Standardisation Activities Coordinates the entire fence specification field with the American Society for Testing and Materials. Works toward setting universal standards for fence specification. Develops voluntary consensus standards. Promotes the usage of ASTM standards throughout the industry. Publishes a Product Manual which includes ASTM standards.

Availability Distributed directly.

Keywords fence; construction;

CHEMICAL FABRICS AND FILM ASSOCIATION

Charles M. Stockinger, Executive Secretary

1300 Sumner Avenue
Cleveland, Ohio 44115-2851
(216) 241-7333 FAX: (216) 241-0105
Founded: 1927 Standards Staff: 2

Type of Organization Trade Association
Standards Developer

Standards Development 12 member companies participating in standards activities.
Draft standards available for review by nonmembers.
None processed through ANSI.

Scope A voluntary, nonprofit trade association which includes among its members 12 North American manufacturers of chemically coated fabrics and PVC sheet and film. Represents its membership in technical, environmental, and governmental affairs of interest to the industry. One of its objectives is to inform and educate the consuming public regarding the uses and merits of chemical fabrics and film; interested in encouraging high standards of quality and service throughout the industry.

Standardization Activities Directed toward the setting of voluntary performance and quality standards for various product lines. Solicits input from all interested parties. Works closely with the American Society for Testing and Materials. Committees review and make recommendations on government standards, specifications, and documents; and participate in standards programs with the National Institute of Standards and Technology, Underwriters Laboratories, and other standard setting organizations related to the industry.

Standards are voluntarily adopted by manufacturers and users and applied to various product lines when performance, reliability, and safety are essential.

Availability Distributed directly.

Formerly Institute of Leather Cloth and Lacquered Fabric Manufacturers (1932)
Pyroxylin and Resin Coaters Institute (1943)
Plastic Coatings and Film Association (1948)
Vinyl Fabrics Institute (1955)

Keywords coated fabrics; sheet and film; upholstery; vinyl; wall covering; materials;

CHEMICAL MANUFACTURERS ASSOCIATION

Diana Artemis, Associate Director

2501 M Street NW.
Washington, DC 20037
(202) 887-1386 FAX: (202) 463-1593
e-mail: uscmadta@ibmmail.com

Founded: 1872 Standards Staff: 2

Type of Organization Trade Association
Standards Developer

Standards Development Processed through ANSI.

Standards Designation ANSI.

Scope A nonprofit trade association whose company members represent more than 90 percent of the productive capacity of basic industrial chemicals within this country.

Standardization Activities As a standards developer using the canvass method, sponsors American National Standard Z129.1, Precautionary Labeling of Hazardous Chemicals. As a standards developer using the committee method, sponsors American National Standards Committee E96, Welded Aluminum-Alloy Storage Tanks.

Provides over 50 members to serve as its representatives on national standards committees, boards, and councils dealing with standards for plant equipment, packaging equipment, transportation equipment, and occupational safety and health. Standards organizations include ANSI, AAR, ASME, NFPA, and SSCI.

Participates heavily in standards development proposed by other organizations for adoption as American National Standards by the canvass route. Standards organizations include API, CEMA, IEEE, ISA, MSSVFI, NEMA, SPI, and UL. Also participates in ASTM committees dealing with occupational health and safety, waste disposal, spills, and analysis of industrial chemicals.

Availability Distributed through ANSI.

Formerly Manufacturing Chemists Association (1979)

Keywords labeling; hazardous chemicals; materials; processes;

CHEMICAL SPECIALTIES MANUFACTURERS ASSOCIATION

D. Douglas Fratz, Director, Scientific Affairs

1913 Eye Street NW.
 Washington, DC 20006
 (202) 872-8110

FAX: (202) 872-8114

Founded: 1914

Standards Staff: 3

Type of Organization Trade Association
 Standards Developer

Standards Designation CSMA prefix or CSMA Bulletin No.

Government Adoption CSMA product performance evaluation methods have been used for government procurement purposes by GSA. Many have been adopted by ASTM.

Scope Four hundred companies involved in manufacturing, formulating, packaging, and marketing chemical specialties products, including home, lawn, garden, transportation, institutional, and industrial products. Works in various areas, including federal and state governmental affairs (both legislative and regulatory), communications, public relations, marketing, legal affairs, and scientific and technical affairs.

Standardization Activities Develops standard product characterization methods, product performance evaluation test methods, and recommended practices for manufacturers and formulators of chemical specialties products through numerous scientific and technical committees in CSMA's six divisions: (1) Aerosol; (2) Industrial and Automotive Specialties; (3) Detergents; (4) Antimicrobial Products; (5) Pesticides; and (6) Polishes and Floor Finishes.

Has numerous representatives on committees of voluntary consensus organizations such as ANSI, ASTM, NFPA, ENMC, and AOAC. Standards originated and promoted by CSMA are now ASTM, AGAC, SAE, or other standards as well.

Published manuals and compendiums including: Aerosol Guide; Detergents Division Test Methods Compendium; Microbiological Test Methods Compendium; Waxes, and Polishes and Floor Finishes Test Methods and General Information.

Availability Distributed directly.

Formerly National Association of Insecticide and Disinfectant Manufacturers (NAIDM)

Keywords chemical specialties; household chemicals; aerosols; automotive chemicals; disinfectants; sanitizers; detergents; cleaners; pesticides; insecticides; waxes; polishes; floor finishes; materials; consumer products;

CHLORINE INSTITUTE

Robert G. Smerko, President

2001 L Street, NW.
 Suite 506
 Washington, DC 20036
 (202) 775-2790
 Founded: 1924

FAX: (202) 223-7225
 Standards Staff: 1

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	Standards committees of ANSI, ASTM, AWWA, NFPA, and committees of the Association of American Railroads
Scope	Concerned with the safe production, distribution, and use of chlorine, sodium and potassium hydroxides, and sodium hypochlorite; and the distribution and use of hydrogen chloride. Committees provide comments on draft standards pertinent to the chlor-alkali industry.
Standardization Activities	Publishes literature and drawings of equipment as guidelines and recommended safety practices for handling chlorine, sodium and Potassium hydroxides, sodium hypochlorite and hydrogen chloride.
Keywords	chlorine; sodium hydroxide; caustic soda; potassium hydroxide; caustic potash; sodium hypochlorite; bleach; hydrogen chloride; hydrochloric acid; anhydrous hydrogen chloride; chemicals; safety;

CLEANING EQUIPMENT TRADE ASSOCIATION

John Hoppenstedt, Executive Director

2535 Pilot Knob Road
Suite 105
St. Paul, Minnesota 55120
(612) 686-7086 FAX: (612) 686-7088
Founded: 1980

Type of Organisation	Trade Association Standards Developer
Standards Development	Standards developer since 1981. 50 members participate in standards activities. 12 members are represented on the standards committee for UP Standard 1776.
Standards Designation	Safety Standards for Cleaning Machines.
Scope	An international trade association of manufacturers and distributors which sell commercial-industrial cleaning machines, including cold water high pressure cleaners and blasters, hot water high pressure cleaners, steam cleaners, and water jetting equipment.

Standardization Activities Activities directed toward the development of nationally recognized Equipment Safety Standards intended to provide a basis for common understanding and reference within the cleaning equipment industry among suppliers, manufacturers, distributors, dealers, resellers or installers, and owner-users. These also serve as reference guides for government agencies and industry when making purchasing decisions. Anticipates standards adoption as national consensus standards through ANSI.

Availability Distributed directly.

Formerly Cleaning Equipment Manufacturers Association (CEMA)

Keywords cleaning machines; water blasters; industrial equipment; steam cleaners;

COATED ABRASIVES MANUFACTURERS INSTITUTE

Charles M. Stockinger, Managing Director

1300 Sumner Avenue
 Cleveland, Ohio 44115
 (216) 241-7333

FAX: (216) 241-0105

Founded: 1933

Standards Staff: 2

Type of Organization Trade Association
 Standards Developer

Standards Development 5 member companies participate in standards activities. Standards processed through ANSI. Draft standards available for review.

Secretariate CAMI Technical Committee serves as Technical Committee on Coated Abrasives of the B74 Committee. CAMI Safety and Industrial Health Committee serves as the Technical Committee B7 of the B74 Committee.

Scope A voluntary, nonprofit association of manufacturing companies which coat and manufacture various types and forms of coated abrasive products in the United States.

Standardization Activities Develops standards for grading of certain abrasive grains on coated abrasive products. These specifications include grading requirements for screen grit size and sedimentation grit sizes of aluminum oxide, silicon carbide, garnet, emery, and flint abrasive grains for use on coated abrasive products; procedures for recovery of abrasive grains from products to be tested; and procedures for testing recovered abrasive grains to determine if they conform to grading requirements.

Definitions of the trade terms used and methods for identifying products which conform to this standard are included.

Also develops standards which establish the minimum safety requirements related to the usage of coated abrasive forms. Requirements apply to hand-held and fixed-mounted machine operations that use some form of coated abrasive product, and to safety-related maintenance precautions for machines and machine parts. Also contain safety requirements pertinent to operator and bystander protection, dust collection, and potentially hazardous environmental conditions.

Availability Distributed directly and through ANSI.

Keywords abrasives; manufacturing; safety; industrial equipment;

COLLEGE OF AMERICAN PATHOLOGISTS

Lee VanSremen, Executive Vice President

325 Waukegan Road
Northfield, Illinois 60093-2750
(847) 446-8800 FAX: (847) 446-8807
Founded: 1947 Standards Staff: 1

Type of Organization Professional Society
Standards Developer and works through other organizations to develop standards

Representation American National Standards Institute
Association for Advancement of Medical Instrumentation
Commission on World Standards
National Committee for Clinical Laboratory Standards
World Association of Societies of Pathology
World Health Organization

Standards Development A Standards Committee of seven members and four non-members coordinate liaisons with national and international standards setting organizations. The committee identifies problems in standards development and coordinates their solution.

Certification The Standards and Reference Materials Program develops and certifies bottled standards and reference materials for standardization of medical laboratory tests, and supervises a cyanmethemoglobin certification program. The bottled materials offered through this program allows external verification of accuracy in test reagents and assay systems. The Surveys Program provides external quality assessment in the form of proficiency testing services. This program assists participating laboratories in meeting federal and state regulations. CAP also sponsors voluntary accreditation

programs for laboratories, forensic urine drug testing, athletic drug testing, and reproductive laboratories. These programs coordinate on-site inspections for a "macro" evaluation of laboratories. The CAP has deeming authority to accredit laboratories per the Health Care Financing Administration CLIA '88 regulations.

Secretariats

Commission on World Standards of the World Association of Societies of Pathology (WASP), the WASP Secretariat on Forensic Pathology and the WASP Secretariat on Informatics.

Scope

The College of American Pathologists is a not-for-profit professional society of more than 13 600 physicians specializing in the practice of pathology. The College is dedicated to leadership, quality, service and advocacy in laboratory medicine. The CAP pursuit of excellence is made possible by member participation in the development of various laboratory improvement programs offered by the College.

**Standardization
Activities**

The CAP laboratory improvement programs provide a continuum for medical laboratories and industry to move toward more standardized testing and practices. The external quality assessment schemes of proficiency testing and accreditation allow for identification of areas which are in need of standardization. Once a need for standardization is identified, a solution, either in the form of bottled standard or paper standard, is coordinated.

Availability

Participation in the Laboratory Improvement Programs can be requested directly from the CAP. Standards are available directly.

Keywords:

pathology; medicine; medical; laboratory; proficiency; accreditation; standards; reference materials; health care;

COLOR ASSOCIATION OF THE UNITED STATES

Margaret Walch, Associate Director

409 West 44th Street
New York, New York 10036
(212) 582-6884

FAX: (212) 757-4557

Founded: 1915

Standards Staff: 3

**Type of
Organization**

Trade Association
Standards Developer

**Government
Adoption**

DoD Color Card

Certification

No certification, qualification, or accreditation programs

Scope

Membership comes from the textile and fashion industries, and the interior design and environmental fields. Issues seasonal color forecasts of dyed fabrics for women's and men's apparel twice a year. Issues a yearly forecast of interior colors for the interior and environmental fields; these forecasts are applicable to companies producing dyestuffs, paints, automobiles, airplanes, home furnishings, textiles, plastics, cosmetics, and other products. Standardizes government and industry colors; offers consultations; maintains archives and fabric swatch library.

**Standardization
Activities**

Produces a Standard Color Card of America for the purpose of simplifying color work by establishing color standards favored for use in the United States. The card presents a comprehensive palette of preferred American colors and is primarily directed to the textile, fashion, and environmental industries.

Availability

Distributed directly.

Keywords

textile; fashion; interior design; color; sports; consumer products; general;

COMMERCIAL REFRIGERATOR MANUFACTURERS ASSOCIATION

Robert T. Chancler, Executive Director

1101 Connecticut Avenue NW.
Suite 700
Washington, DC 20036
(202) 857-1145

FAX: (202) 223-4579

Founded: 1933

Standards Staff: 1

Type of Organization Trade Association
Standards Developer

Standards Development One active standard.

Standards Designation CRS prefix.

Certification No certification, qualification, or accreditation programs.

Scope Manufacturers of refrigerated display cases and cabinets, food service refrigerators, and sectional cooling rooms.

Standardization Activities Develops and revises Voluntary Minimum Standard for Retail Food Store Refrigerators - Health and Sanitation, CRS-S178 - as required.

Availability Sold directly.

Keywords refrigerators; refrigeration;

COMPOSITE CAN AND TUBE INSTITUTE

Kristine Garland, Executive Vice President

1630 Duke Street
Alexandria, Virginia 22314
(703) 549-2233

FAX: (703) 549-4912

Founded: 1933

Standards Staff: 1

Type of Organization Trade Association
Standards Developer

Scope A nonprofit international organization which fosters the collective interests of the composite can, tube, core, and fiber drums industry and their suppliers.

Standardization Activities Administers a Technical Committee active in standards development.

Does not participate in international programs or federal government standardization activities, except when requests are received for specific information.

Publishes standard testing procedures to provide uniform methods for both manufacturers and users to measure and test the physical characteristics of composite cans, tubes, and cores. Develops and publishes recommended industry standards covering dimensions for certain high volume types of composite cans to accommodate custom-

ers' closing and handling equipment. Publishes guidelines as sources of information for manufacturers and users of industry products. Publishes and revises testing procedures.

Availability Distributed directly.

Formerly National Fibre Can and Tube Association (1970)

Keywords composite cans; composite tubes; packaging; cores; fiber drums;

COMPRESSED AIR AND GAS INSTITUTE

John H. Addington, Secretary-Treasurer

1300 Sumner Avenue
Cleveland, Ohio 44115
(216) 241-7333 FAX: (216) 241-0105

Founded: 1915 Standards Staff: 2

Type of Organization Trade Association
Standards Developer

Standards 35 member companies participate in the standards development for industry products used in manufacturing, construction, mining, and other industries.

Scope A national trade association of companies which manufacture air and gas compressors, pneumatic machinery and compressed air and gas drying equipment.

Standardization Activities Representative standards that the institute has developed include performance statements which identify parameters for performance evaluation of centrifugal compressors; a test standard for rating compressed air dryers; and the test code for sound measurement of pneumatic equipment, ANSI S5.1. The latter standard was developed jointly with the European Committee of Manufacturers of Compressed Air Equipment.

Availability Sold directly.

Keywords noise control; construction; manufacturing; industrial equipment; safety; machinery;

COMPRESSED GAS ASSOCIATION

Carl T. Johnson, President

1725 Jefferson Davis Highway
Suite 1004
Arlington, Virginia 22202
(703) 412-0900

FAX: (703) 412-0128

Founded: 1913

Standards Staff: 15

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1913.
250 member companies participating in standards
activities.
90 active standards, including metric.

**Standards
Designation**

CGA prefix; in some instances, standards also bear ANSI
and Canadian Standards Association (CSA) designations.

**Government
Adoption**

Standards comply with Department of Transportation and
other government agencies where applicable (federal, state, and
local regulations).

Certification

No certification, qualification, or accreditation programs

Scope

Provides, develops, and coordinates technical activities in the
compressed gas industries, including end-uses of products, so that
they may serve the best interest of the public and industry.
Active primarily in the fields of safety and technical specifica-
tions pertaining to the compressed gas and related product and
service industries, including the medical fields of anesthesia and
respiration.

**Standardization
Activities**

Collaborates with national organizations such as the
NFPA, the National LP-Gas Association, ASTM, ANSI, AAR, and the
American Society of Anesthesiologists, to develop far-reaching
specifications and standards of safety to benefit industry and the
public.

Compiles information and publishes material, such as the Handbook
of Compressed Gases, and pamphlets which contain a description of
the used gases and give in detail the safest methods for handling
and storing gases. Provides audiovisual presentations.

Conducts national and regional technical meetings and seminars to
discuss practices, standards, and problems related to the broad
spectrum of the compressed gas industries.

Submits recommendations to appropriate Government agencies to improve safety standards and methods of handling, transporting and storing gases. Acts as advisor to authorities, some of which are regulatory such as the U.S. Department of Transportation, the U.S. Interstate Commerce Commission, U.S. Coast Guard, U.S. Food and Drug Administration, Canada's Board of Transport, and state, provincial, municipal, and local agencies concerned with the safe handling of compressed gases. Participates in committees of the United Nations and the International Organization for Standardization (ISO).

Availability Distributed directly, and through IHS and Global.

Formerly Compressed Gas Manufacturers Association (1949)

Keywords compressed gases; medical; cryogenic; safety; transportation; materials; cylinders;

CONCRETE PLANT MANUFACTURERS BUREAU

CONTROL SYSTEMS MANUFACTURERS DIVISION (CSMD)
PLANT MIXER MANUFACTURERS DIVISION (PMMD)

Peter T. Vlahos, Executive Secretary

900 Spring Street
Silver Spring, Maryland 20910
(301) 587-1400 FAX: (301) 587-4260
Founded: 1958 Standards Staff: 2

Type of Organization Trade Association
Standards Developer; affiliated with the National Ready Mixed Concrete Association

Standards Designation CPMB, CSMD, and PMMD prefixes.

Government Adoption Widely used and referenced in government standards and specifications.

Certification CPMB, CSMD and PMMD ratings plates are affixed to concrete plants, control systems and plant mixers meeting Bureau Standards.

Scope Develops engineering standards with a view toward simplification and standardization of sizes, capacities, and other criteria associated with the manufacture of concrete plants.

Standardization Activities Develops standards for concrete plants and concrete mixers. Bureau standards subject to approval by the National Ready Mixed Concrete Association. Represented on committees of the National Ready Mixed Concrete Association. Participates in the development of governmental specifications or their interpretation.

Availability Distributed directly.

Keywords concrete; concrete plants; materials; construction;

CONCRETE REINFORCING STEEL INSTITUTE

Victor A. Walther, Jr., President, CAE

933 North Plum Grove Road
 Schaumburg, Illinois 60173
 (847) 517-1200

FAX: (847) 517-1206

Founded: 1924

Standards Staff: 1

Type of Organization Trade Association

Scope Represents mill producers, fabricators, and suppliers of reinforcing bars. Associated members include producers and suppliers of other products used in concrete construction and fabricating equipment manufacturing. Increases the use of reinforcing bars through research, education, promotion, improved efficiency for lower final costs through better design, improved materials, and construction techniques.

Standardization Activities Technical activities are conducted by the CRSI Engineering Practice Committee and subcommittees on bar supports, placing reinforcing bars, concrete joist construction, detailing reinforced concrete, and splicing reinforcing steel.

Availability Sold directly.

Keywords reinforcing steel; concrete; joists; construction; building;

CONCRETE SAWING AND DRILLING ASSOCIATION

Patrick O'Brien, Executive Director

6089 Frantz Road
Suite 101
Dublin, Ohio 43017
(614) 798-2252 FAX: (614) 798-2255

Type of Organization Founded: 1972 Standards Staff: 1
Professional and Trade Association
Standards Developer

Standards Designation Standards published in accordance with Construction Specifications Institute (CSI) format.

Standards Development Develop standards in concrete cutting industry.

Government Adoption None.

Certification Certification program being developed for operators of concrete cutting equipment. Certification will begin in April 1996.

Secretariats None

Scope Association of contractors, manufacturers and affiliated members from the concrete construction and renovation industry. The CSDA mission is to promote the selection of professional sawing and drilling contractors and their methods.

Standardization Activities Initial standard defines diamond cutting techniques. Additional standards will be added in the future.

Availability Distributed directly.

Keywords concrete cutting; diamond cutting; concrete removal; core drilling; wire sawing;

CONSORTIUM FOR ADVANCED MANUFACTURING INTERNATIONAL

Bailey H. Squier, Director CIM Standards and Technology

1250 E. Copeland Road
Suite 500
Arlington, Texas 76011
(817) 860-1654 FAX: (817) 275-6450

Founded: 1972 Standards Staff: 2

Type of Organization R & D Consortium
Standards Developer

Standards Designation ANSI/CAM-I.

Standardization Activities The scope of CAM-I standards development is focused on information preparation for computer aided/integrated manufacturing systems and methods related to standard software input/output, interfaces, and language specifications. In general, CAM-I does not operate in the field of hardware standards. CAM-I is an accredited standards developer under the ANSI canvass and organization methods. CAM-I develops proposed standards, and encourages development of needed standards by other organizations. It also proposes and fosters national and international standards in association with ANSI, ISO, and other standards groups. CAM-I Research Programs identify needed standards, evaluate benefit to member companies and industry in general, and fund their development.

Scope A not-for-profit research and development membership consortium of industrial manufacturers advancing the state of the art in manufacturing technology, management, and education. An accredited standards Developer, which processes member-defined and funded industry standards.

Formerly Computer Aided Manufacturing, International

Keywords advanced manufacturing; enterprise integration; cost management systems; quality assurance; DNIS; SOI; strategic supply chain management; advanced management systems;

CONSTRUCTION INDUSTRY MANUFACTURERS ASSOCIATION

James H. Stollenwerk, President and Secretary

111 East Wisconsin Avenue
Bank One Plaza 940
Milwaukee, Wisconsin 53202
(414) 272-0943 FAX: (414)272-1170
Founded: 1911 Standards Staff: 2

Type of Organization Trade Association
Standards Developing Organization

Standards Development Power Crane and Shovel Association (PCSA) develops standards for cranes and excavators. The (LEMB) develops standards for vibratory rammers and plates

Standards Designation PCSA Standard; LEMB prefix.

Government Adoption PCSA Standards #4 and #5 are referenced by incorporation into ASME/ANSI B30.5 (Mobile and Locomotive Cranes) are requirements within 29 CFR Part 1926 Subpart N.

Certification PCSA Standards and published reference material qualify cranes and equipment to meet specific requirements for manufacturing and operation.

LEMB Standards provide for the uniform method of rating the equipment.

Scope CIMA is a nonprofit United States based international trade organization which represents 500 companies manufacturing and marketing construction related machinery and equipment used around the world in the road building, general construction, housing, material-handling, mining, energy management environmental waste management and forestry fields. Also included in the CIMA membership are the support teams of publishers, financial institutions and construction services providers. CIMA activities serve the technical, safety, statistical, public relations and government affairs interest of its member companies, to benefit them and the entire construction industry.

The Association represents the construction equipment manufacturing industry at state and federal levels and it also offers opinions and recommendations for international agreements between the United States government and its trading partners.

Standardization Activities CIMA disseminates to the construction equipment manufacturing industry the relative "Performance Standards" in the areas of international, federal and state regulations as they pertain to product compliance, product safety, health and the environment. The term "Performance Standard" relates to equipment nomenclature performance criteria for machine safety, protective devices, operational procedures, machine capability limitations, noise characteristics, etc., as opposed to engineering standards which dictate theory and design.

Industry representatives within CIMA Bureaus act on technical issues, including machine nomenclature, classification, specifications, special applications, voluntary consensus standards, regulations, research and equipment procedures (on testing and documentation) and safety oriented issues for machines such as: cranes, roller compactors, soil stabilizers, milling machines, asphalt pavers, rock drills, etc.

CIMA is active in commercial standards that relate to member industries, i.e., product safety, product maintenance, machine operations, certification, testing, inspection, etc. CIMA member Bureaus write and publish commercial standards which often become the bases for consensus standards.

Availability CIMA Publications are sold directly.

Keywords construction; road building; mining;

CONSTRUCTION SPECIFICATIONS INSTITUTE

Gregory Balestrero, Executive Director

601 Madison Street
Alexandria, Virginia 22314
(703) 684-0300 FAX: (703) 684-0465
CompuServe: 72113,1665

Founded: 1946 Standards Staff: 18

**Type of
Organization**

Technical Society
Standards Developer

**Standards
Development**

Standards developer since 1964.
350 guide specifications.
SPECTEXT - 440 sections.
SPECTEXT II - 100 sections.
None processed through ANSI.
Drafts not available for review.

**Standards
Designation**

MASTERFORMAT; SPECTEXT; SPECTEXT II; Manual of Practice.

**Government
Adoption**

The Department of Defense has adopted CSI MP-2-1 MASTERFORMAT, Master List of Titles and Numbers for the construction industry; Section Format and Page Format.

Scope

A national technical society dedicated to the advancement of construction technology through communication, education, research, and service. CSI serves the interests of more than 19 000 architects, engineers, specifiers, contractors, product manufacturers, and others in the construction industry.

**Standardization
Activities**

Activities are directed toward standardization of the language and format of construction specifications, as well as format, organization, and coordination of the contents of the Project Manual for a construction project.

Publishes a Manual of Practice which provides techniques, procedures, and formats for the preparation and organization of construction documents. Included is MASTERFORMAT which was jointly issued with CSI's Canadian counterpart, Construction Specifications Canada. MASTERFORMAT provides a uniform system for organizing project cost data, and for filing product information and other technical data. The 16-Division concept presented in MASTERFORMAT has been adopted by government and private practices as a uniform approach for the organization of information contained in construction project manuals.

Produces SPECTEXT and SPECTEXT II through its research affiliate, The Construction Sciences Research Foundation (CSRF). SPECTEXT is a 440 section library of master guide specifications for construction projects prepared in accordance with CSI recommended practices. SPECTEXT II is for smaller, less complex projects. CSI has also developed a product information retrieval system (-SPEC-DATA II) and an automated computerized system for specification text manipulation adaptable to all types of master specification programs.

Availability

Sold directly.

Keywords

specifications; formats; construction documentation; construction; information processing;

CONSUMER FEDERATION OF AMERICA

Stephen Brobeck, Executive Director

1424 16th Street NW.
Washington, DC 20036
(202) 387-6121

FAX: (202) 265-7989

Founded: 1968

**Type of
Organization**

Consumer Advocacy Organization
Works through other organizations to develop standards

Representation

ASTM Committee F-15.
Consumer Products FDA.
Cosmetic Ingredient Review.

Scope Consumer membership organization composed of more than 200 national, state, and local groups committed to the goals of consumer advocacy and education. Advances pro-consumer policy before Congress, the Administration, regulatory agencies, and the courts; assists state and local consumer groups; and increases public and media awareness of consumer needs.

Standardization Activities Provides the consumer perspective for organizations which develop standards.

Keywords consumer advocacy; consumer products;

CONTAINERIZATION AND INTERMODAL INSTITUTE

Barbara Spector Yeninas, Executive Director
 185 Fairfield Avenue
 Suite 2-D
 West Caldwell, New Jersey 07007
 (201) 226-0160 FAX: (201) 226-4274
 Founded: 1960

Type of Organization Trade Association
 Works through other organizations to develop standards

Scope A membership trade association of shippers, carriage operators, terminal and port managers, and equipment manufacturers engaged in serving the containerization industry.

Standardization Activities Works through ISO and ANSI to develop standards. Works closely with the Transportation Association of America, Society of Packaging and Handling Engineers, Packaging Institute, Society of Automotive Engineers, and the National Defense Transportation Association.

Formerly Containerization Institute

Keywords containerization; intermodal transportation; cargo handling; transportation; packaging;

CONTRACTORS PUMP BUREAU

Sandi Savaglia, Member Services Administrator
 111 East Wisconsin Avenue
 Milwaukee, Wisconsin 53202
 (414) 272-0943 FAX: (414) 272-1170

Founded: 1937 Standards Staff: 1

Type of Organization Trade Association
Standards Developer

Standards Development Standards developer since 1937.
12 members participating in standards activities.
Standards not processed through ANSI.

Standards Designation Contractors Pump Bureau standards.

Government Adoption Standards have been adopted by many state and local
governmental agencies and by the U.S. Navy.

Certification Certification is by the individual manufacturer who states that
his products are manufactured in accordance with the standards of
the Contractors Pump Bureau.

Scope A national organization of manufacturers of pumps for use in the
construction industry. Standards currently in use are the 15th
revision adopted by the Bureau in July 1976.

Standardization Activities Aimed toward the proper understanding and utilization
and the various types of pumps used for construction. Assists
users to determine the type and size of pump best suited for a
specific job. Developed the Certified Performance Seal used by
manufacturers. Does not test, inspect or certify pumps. Active
standards self-priming centrifugal pumps, trash pumps, diaphragm
pumps, and electrically driven submersible pumps.

Availability Distributed directly.

Keywords pump; construction; industrial equipment;

CONVEYOR EQUIPMENT MANUFACTURERS ASSOCIATION

Robert A. Reinfried, Executive Vice President

9384-D Forestwood Lane

Manassas, VA 22110

(703) 330-7079

FAX: (703) 330-7984

Founded: 1933

Standards Staff: 2

Type of Organization Trade Association
Standards Developer

Standards Development 20 active standards; works through ANSI.

Standards Designation CEMA and ANSI/CEMA prefixes.

Scope A trade association of 90 Manufacturers and engineers of conveyors and conveying systems, portable and stationary machinery used in transport of raw materials and finished products in warehouses and on assembly line operations.

Standardization Activities Develops standards for design, manufacture, and application of conveying machinery and component parts. Activities administered by CEMA Product Sections and CEMA Engineering Conference. Member of the American National Standards Institute. Also works with other organizations, such as the American Society of Mechanical Engineers, and with Federal Government organizations including the Occupational Safety and Health Administration, Office of Standards and the Bureau of Mines.

Availability Sold directly and through ANSI.

Formerly Association of Conveyor and Material Preparation Equipment Manufacturers (1935)
Conveyor Association (1945)

Keywords conveyors; machinery; industrial equipment;

COOKWARE MANUFACTURERS ASSOCIATION

Hugh Rushing, Executive Vice President
P.O. Box 531335
Mountain Brook, Alabama 35253-1335
(205) 802-7600 FAX: (205) 802-7610
Founded: 1922 Standards Staff: 1

Type of Organization Trade Association
Standards Developer

Standards Development Standards developer since 1963.
23 members participating in standards activities.
16 active standards.
All processed through ANSI.
Draft standards available for review.

Standards Designation CMA prefix.

Certification No certification, qualification, or accreditation programs.

Scope A national trade association that represents United States companies engaged in the manufacture of cookware, bakeware, and miscellaneous cooking accessories. Promotes the welfare of the cookware industry, improves services to the public, and carries out activities in furtherance of the industry consistent with the public interest.

Standardization activities Establishes voluntary standards for products manufactured within the industry. Standards are intended as guides to aid the manufacturer, user, and general public. Standards cover procedures for determining sizes and capacities, uniform terminology for finishes and decorations, specifications for plastic handles and knobs, safety and health guidelines, metal specifications, and metric guidelines. Standards activity is the responsibility of a Standards Engineering Committee of domestic cookware/bakeware manufacturers. ANSI Z61.1-1979 has adopted all CMA standards for metal cookware and bakeware.

Availability Sold directly and through ANSI.

Formerly Aluminum Ware Association (1963)
Metal Cookware Manufacturers Association (1981)

Keywords cookware; bakeware; microwave; food; consumer products;

COOLING TOWER INSTITUTE

Virginia A. Manser, Administrative Manager

P.O. Box 73383
Houston, Texas 77090
(713) 583-4087 FAX: (713) 537-1721
Founded: 1950 Standards Staff: 8

Type of Organization Technical Society
Standards Developer

Standards Development Standards developer since 1950.
425 members participate in standards activities.
40 active standards.
None processed through ANSI.

Standards Designation STD - Standard.
ATC - Acceptance Test Code.
WMS - Wood Maintenance Standard.
NCL - Nomenclature.

Government Adoption Many government bids include CTI Standards as part of the specifications.

Certification The Cooling Tower Institute may certify that a line of towers will perform in accordance with the manufacturers' published ratings. Under STD-201.

Scope A nonprofit, technical association dedicated to the improvement of technology, design, performance, and maintenance of cooling towers and cooling tower systems. Consists of manufacturers, users, and suppliers of equipment and chemicals, as well as engineering firms having an interest in problems related to cooling water including water and air pollution. International membership.

Standardization Activities The standards activities of the Cooling Tower Institute are accredited by ANSI and center on fulfilling user-defined requirements of the industry and its customers. There are 10 published standards, including recommended grades, grading rules, and allowable design stresses for redwood lumber; methods and instrumentation for determining water cooling capability of mechanical draft towers; and recommended material, manufacturing limitations, design requirements and allowable loads for timber fasteners. The Institute is also active on standards committees of NACZ, ASME, and others.

Availability Sold directly and through IHS.

Keywords cooling; industrial equipment; water;

COPPER DEVELOPMENT ASSOCIATION

Arthur Cohen, Manager Standards and Safety Engineering
 250 Madison Avenue
 New York, New York 10016
 (212) 251-7200 FAX: (212) 251-7234
 Founded: 1963 Standards Staff: 2

Type of Organization Trade Association
 Works through other organizations to develop standards

Representation ASTM, ASME, AWWA, SAE, NACE

Standards Designation Standards Handbook.

Secretariats U.S. TAG for ISO/TC 26, Copper and Copper Alloys.

Scope An engineering development and market research organization for the copper and brass industry; develops new markets for copper and copper alloys; creates new concepts; builds prototypes and proves commercial feasibility for new applications of copper, brass, and bronze. Provides technical support to users of copper and copper alloys.

Standardization Activities Carries out standardization activities for brass mill and foundry products. Publishes the Standards Handbook which covers tolerances; alloy data, both wrought and cast; terminology; engineering data; sources; and a specifications cross index. Cooperates with ISO and Pan American Standards Commission (-COPANT). Reviews federal and military standards. A Technical Service and Standards Advisory Committee coordinates publication activities and participation in voluntary standard organizations.

Availability Distributed directly.

Formerly Copper and Brass Research Association

Keywords copper; brass; bronze; materials;

CORDAGE INSTITUTE

G.P. Foster, Executive Director

350 Lincoln Street
 Hingham, Massachusetts 02043
 (617) 749-1016 FAX: (617) 749-9783
 Founded: 1920 Standards Staff: 2

Type of Organization Trade Association
 Standards Developer

Standards Development Standards developer since 1924.

Scope Composed of rope and twine manufacturers in the United States, with some Canadian manufacturers and Cordemex of Mexico as special members. Promotes interests of the industry and improves its services to the public; compiles and distributes information; cooperates in handling problems common to the industry.

Standardization Activities Maintains a Technical Committee which develops or participates in developing voluntary, consensus specifications for hard fiber and synthetic rope and twines. Works closely with the U.S. Army, U.S. Navy, the Maritime Administration, the Coast Guard, the General Services Administration, and others. Works with the Defense Supply Agency (Defense Industrial Supply Center) in regard to military requirements. Cooperates with private organizations including American Merchant Marine Association

(towing hawsers on ocean going vessels); American Society of Mechanical Engineers (sling specifications); National Ski Area Association (rope tow and rescue rope specifications); New York City Fire Department (rescue ropes); public utility companies (specifications and test methods); National Fire Protection Association; and Oil Companies International Marine Forum.

Advises users, consumers and engineers on technical aspects of cordage, twines and ropes.

Ongoing projects include review of testing procedures for breaking strength standards, safety factors, updating of current DI specifications for ropes, chemical and temperature resistance of cordage fibers, resource or expert witness and testing laboratories, and development of standards for abrasion and wet tensile strength.

Participates in the activities of Technical Committee 38 - Textiles of the International Organization for Standardization (ISO), American Society for Testing and Materials (ASTM), Oil Companies International Marine Forum (OCIMF), National Fire Protection Association (NFPA).

Publishes technical data, including Quality Control-Minimum Standards; Specifications for Natural and Man-made Fiber Ropes; Standard Test Methods for Synthetic Fiber Ropes; Bend Tests Made on Natural and Synthetic Fiber Ropes; The Cordage Industry Directory; the Safe Use of Rope; Agricultural Twine Standards; Tying Twine standard; Cordage and Rope Definitions; Standard Terminations for Testing; and General Rope Usage.

Availability

Distributed directly.

Keywords

rope; cordage; industrial equipment; twine; netting;

CORN REFINERS ASSOCIATION

Kyd D. Brenner, Vice President

1701 Pennsylvania Avenue, NW.
Washington, DC 20006
(202) 331-1634
Founded: 1913

FAX: (202) 331-2054
Standards Staff: 1

Type of Organization Trade Association
Works through other organizations to develop standards

Representation Nine member companies active in a variety of standards organizations

Scope Association for the United States corn wet milling industry. Provides services in the areas of research, public information, and government relations.

Standardization Activities Cooperates with United States and international standards developing organizations. Maintains an Analytical Quality Systems Committee which develops and publishes Standard Analytical Methods of the Member Companies for use in analyzing industry products. Cooperates with analytical groups such as AOAC in this endeavor. Does not issue product standards or specifications, but cooperates with governmental bodies such as FDA, FCC, USDA, USP, and Food and Agriculture Organization/World Health Organization (FAO/WHO). This activity is coordinated by the Scientific and Applied Development Committee.

Formerly Corn Industries Research Foundation (1966)
Associated Corn Products Manufacturers (1932)
American Manufacturer's Association of Products from Corn (1923)

Keywords corn; corn products; corn starch; agriculture; food;

CORPORATION FOR OPEN SYSTEMS INTERNATIONAL

Ed Albrigo, President

8260 Willows Oaks Corporate Drive
Fairfax, Virginia 22130
(703) 205-2700

FAX: (703) 846-8590

Founded: 1986

Standards Staff: 5

Type of Organization R & D Consortium
Works through other organizations to develop standards

Representation COS contributes to, observes, or interacts with all the Information Technology related standards bodies and all those organizations that relate to the IT standards bodies including ISO, CCITT, IEEE, ANSI, NIST, SPAG, POSI, CSI/NMF, X-OPEN, OSF and others.

Scope COS is a research and development consortium funded by a coalition of computer and communications manufacturers, major commercial and industrial users of networked systems, elements of the civilian and defense arms of the United States government and foreign government and commercial organizations. It includes the North American MAP/TOP Users Group and has numerous university, trade and user group association affiliates.

Standardization Activities COS selects and implements test suite specifications and profiles based on international OSI/ISDN and related standards, contributes to the setting of conformance testing standards, and administers a product certification program - the COS MARK - which serves as a means of promoting high quality conformance and interoperability testing for OSI/ISDN products and services and is an indicator to prospective product purchasers of product interoperability. COS also works with users of open systems to promote the necessary requirements for enterprise, multi-vendor interoperability.

Keywords OSI; open systems interconnection; ISDN; integrated services digital network; MAP; manufacturing automation protocol; TOP; technical and office protocol; interoperability; data communications; networking;

COSMETIC, TOILETRY AND FRAGRANCE ASSOCIATION

E. Edward Kavanaugh, President

1101 17th Street, NW.
Suite 300
Washington, DC 20036
(202) 331-1770

FAX: (202) 331-1969

Founded: 1894

Standards Staff: 8

Type of Organization

Trade Association
Standards Developer

Standards Development

Developer of more than 300 specifications (voluntary standards) and 500 chemical descriptions since 1942. Development of standard nomenclature for raw materials since 1972. Development of Technical Guidelines (voluntary standards) series that began with microbiology guidelines (1969), and expanded into quality assurance (1972), safety substantiation (1975), and finally Occupational and Environmental Safety and Health (1984). None of these publications are processed through ANSI.

Scope

A national trade association representing the cosmetic and personal care products industry. Active membership includes 250 companies that manufacture or distribute 80 percent of the finished cosmetic products marketed in the US. Also includes 265 associate member companies from related industries which provide services to the cosmetic industry. These include manufacturers of raw materials and packaging testing facilities. CTFA represents its membership internationally in a range of scientific and regulatory areas.

**Standardization
Activities**

Specifications developed by a 20-member committee of analytical chemists representing both cosmetic product manufacturers and suppliers. Has responsibility for the publication of the CTFA Compendium of Cosmetic Ingredient Composition, which includes specifications that chemically characterize and describe cosmetic ingredients, and test methods and spectra that correspond to these specifications; descriptions of raw materials are provided where specifications have not been developed. Specifications are strictly voluntary and designed to represent the type of ingredients used by the industry. The CTFA Compendium represents the largest collection of authentic specifications on cosmetic ingredients.

In compliance with Food and Drug Administration's regulations, the Association provides standard nomenclature for cosmetic raw materials. A twelve member committee develops this nomenclature. CTFA *Technical Guidelines* are developed by committees from member companies (15-35). The specific areas addressed by industry expertise are: quality assurance; microbiology; safety testing; and occupational and environmental safety and health (OESH). Guidelines are reviewed by the Scientific Advisory Committee that comprises representatives from all member companies. A public review, announced by a press release, precedes publication. Updates are developed as needed. The current series contains 23 guidelines in the area of quality assurance; 10 guidelines addressing safety substantiation and safety testing; 16 microbiological quality guidelines plus 4 specific methods for preservation testing/validation; 11 OESH guidelines.

Availability

Sold directly.

Formerly

Toilet Goods Association (1935-1971)

Keywords cosmetic ingredients; cosmetics; toiletry; fragrance; laboratory testing; materials; consumer products; personal care products;

COTTON WAREHOUSE ASSOCIATION OF AMERICA

Donald L. Wallace, Executive Vice President

1150 Connecticut Avenue, NW.
Suite 507
Washington, DC 20036
(202) 331-4337 FAX: (202) 331-4330
Founded: 1969 Standards Staff: 1

Type of Organization Trade Association
Standards Developer

Scope Consists of cotton compress and cotton warehouse owners and operators in the cotton belt states from the Carolinas to California. Associate membership is available to industry-related businesses, such as insurance companies, banks, equipment dealers, manufacturers, steamship and truck lines.

Standardization Activities Maintains Special Committees on Bale Preparation, Insurance and Standards, and Research and Engineering, which work closely with United States manufacturers of cotton bale ties and buckles, with a view to improving their quality, strength, and reliability. Resulting standards, widely used since 1956, cover width of ties, thickness of ties, minimum elongation of ties under stress, flatness of ties, weight and minimum tensile breaking strength of both ties and buckles.

Availability Distributed directly.

Formerly Merger of the American and the National Cotton Compress and Cotton Warehouse Associations (1969)

Keywords cotton; materials;

COUNCIL OF AMERICAN BUILDING OFFICIALS

Richard P. Kuchnicki, Chief Executive Officer

5203 Leesburg Pike, Suite 708
Falls Church, Virginia 22041
(703) 931-4533 FAX: (703) 379-1546

Founded: 1972 Standards Staff: 20

Type of Organization Model Code Organization
Standards Developer

Secretariat ANSI/CABO A117.1, American National Standard for Building and Facilities--Providing Accessibility and Usability for Physically Handicapped People

Scope CABO is a consortium of the following model building code organizations:
Building Officials & Code Administration International, International Conference of Building Officials, and the Southern Building Code Congress International

Standardization Activities The members of CABO are the three model building code organizations. Through CABO they coordinate development of their respective codes and cooperate with other organizations and the federal government. CABO itself has been used as a vehicle for the development of the One and Two Family Dwelling Code and the Model Energy Code which in turn is based on the ASHRAE standard for energy conservation in new building design. It has also developed the CABO Manufactured Home Construction and Safety Standards.

Keywords safety; building; codes; energy conservation; construction; accessibility; government officials;

DAIRY AND FOOD INDUSTRIES SUPPLY ASSOCIATION

Thomas M. Gilmore, Ph.D., Technical Director

1451 Dolley Madison Blvd.
McLean, Virginia 22101-3850
(703) 761-2600 FAX: (703) 761-4334

Founded: 1912 Standards Staff: 2

Type of Organization Trade Association
Standards Developer

Standards Development Standards developed since 1944.
1000 Members and non-members of DFISA cooperate in standards development. Draft standards available to 3-A Committee members through DFISA.
69 3-A Sanitary Standards; and 10 3-A Accepted Practices.
None processed through ANSI.

Standards Designation 3-A Sanitary Standards; 3-A Accepted Practices

Government Adoption Cited in recommended Grade "A" Pasteurized Milk Ordinance of U.S. Public Health Service.
Cited in U.S. Department of Agriculture plant regulations.
Accepted by state and local public health and agriculture agencies throughout United States and Canada by Department of Defense.

Certification Equipment complying with the standards may carry 3-A symbol, contingent upon authorization from the 3-A Symbol Council. Self-certification process.

Scope DFISA represents the manufacturers of supplies and equipment for the dairy industry. The 3-A mission is to provide sanitary criteria for food and dairy equipment.

Standardisation Activities DFISA cosponsors the 3-A Sanitary Standards program with other dairy and egg processor trade associations; houses the secretary of the program and coordinates the work of 50 specific task committees which develop the standards. Implements standards activity through the DFISA Technical Committee and 50 working task committees, comprise of DFISA members and nonmembers DFISA sponsors the 3-A Sanitary Standards program for dairy equipment and the E-3-A Sanitary Standards for specialized egg processing equipment. Cooperates with local, state and federal agencies, equipment manufacturers and processors, distributors, and public health officials in developing 3-A Sanitary Standards.

Availability Published in Dairy of Food and Environmental Sanitation
Distributed by International Association of Milk, Food, and Environmental Sanitarians (IAMFES), 6200 Aurora Avenue, Des Moines, Iowa, 50322-2638 (515) 276-3344 or (800) 369-6337.

Keywords dairy; food; equipment; egg; cleanability;

DATA INTERCHANGE STANDARDS ASSOCIATION

Regina Girouard, Manager, Secretariat Services
1800 Diagonal Road
Suite 200
Alexandria, Virginia 22314
(703) 548-7003 FAX: (703) 548-5738
e-mail: rgirouar@disa.org
WWW: <http://www.disa.org>

Founded: 1987

Standards Staff: 15

**Type of
Organization**

Professional Association
Standards Developer

**Standards
Development**

In 1987, DISA became the secretariat to ANSI's Accredited Standards Committee (ASC) X12, which develops standards for electronic data interchange (EDI). In 1990, DISA became the secretariat for the Pan American EDIFACT Board (PAEB), which develops the Pan American position on the international, EDIFACT standards for EDI. ASC X12 membership is approximately 875. Membership in the PAEB is by country; full member countries are the United States, Brazil and Chile; associate members are Argentina, Colombia, and Venezuela. X12 Standards for EDI are initially published as Draft Standards for Trial Use (DSTUs, fully implementable). ASC X12 had published 260 DSTUs as of December 1995. ASC X12 has had 20 standards designated American National Standards by ANSI; in 1997, ASC X12 will forward approximately 300 DSTUs for consideration as American National Standards. The PAEB participates in developing EDIFACT Standards that are published with two designations: Status 1 Draft Messages (fully implementable) and Status 2 United Nations Standard Messages (UNSMs, also fully implementable).

DISA publishes both the X12 and EDIFACT Standards as works in progress and as approved for implementation. Contact DISA's Technical Department for more information.

**Standards
Designation**

X12 Standards for EDI are most commonly referred to as "transaction sets" and carry a three-digit identifier along with a title descriptive of their function, for example, Transaction Set 820, Purchase Order. EDIFACT Standards are most commonly referred to as "messages" and carry a six-letter acronym, for example, INVOIC.

**Government
Adoption**

The U.S. Government has adopted both the ASC X12 and UN/EDIFACT Standards as Federal Information Processing Standards (FIPS).

Certification

None.

Secretariats

ASC X12 Pan American EDIFACT Board, U.S. TAG for ISO TC 154
U.S. TAG for JTC 1 SC 30, Open-edi.

Scope

DISA provides EDI standards groups with comprehensive support in development, balloting, and publication /distribution of their work products. It also acts as the national leader in providing education about EDI standards and their implementation.

Members in ASC X12 and the PAEB comprise DISA's core customers; PAEB participants are individuals who are Members of national organizations chosen to represent a particular country's interest in international EDI standards development. ASC X12 members range from individuals interested in the progress of EDI to United States national and multinational corporations that recognize the competitive advantage they can gain by participating in standards development. In addition, many software companies and companies that run communications networks participate in ASC X12 and PAEB.

**Standardization
Activities**

ASC X12 operates by a consensus-driven process. The committee is organized into subcommittees that represent functional areas of industry and commerce--for example, X12N Insurance Subcommittee develops standards for use in property and casualty as well as health care insurance. Other ASC X12 subcommittees develop standards for common transactions in areas such as finance, education administration, materials management, government, and transportation. These subcommittees forward their work to a Technical Assessment Subcommittee; when work is deemed technically accurate, it is forwarded to the entire ASC X12 membership for ballot. Approved work is published as Draft Standards for Trial Use and two types of Technical Reports--Reference Models and Tutorials.

Participants in the PAEB develop the Pan American position on international EDI standards being considered worldwide for publication by the United Nations. The PAEB position is forwarded twice each year to the bi-annual meetings of all regional EDIFACT Boards and results in approved draft messages and U. N. Standard Messages.

Availability

X12 and EDIFACT Standards for EDI are available directly. X12 American National Standards are available from ANSI as Version 3, X12 Standards for EDI.

Formerly

Although DISA has never gone by any other name, the former secretariat to ASC X12 was the Transportation Data Coordinating Committee or TDCC. Previous to 1992, the Pan American EDIFACT Board was known as the North American EDIFACT Board.

Keywords

electronic data interchange; EDI; transaction sets; X12; EDIFACT; TDCC; electronic commerce;

DATA PROCESSING MANAGEMENT ASSOCIATION

Michael R. Wokitsch, Executive Director

505 Busse Highway
Park Ridge, Illinois 60068
(708) 825-8124 FAX: (708) 825-1693
CompuServe: 70430,35

Founded: 1951

Type of Organization Professional Society
Works through other organizations to develop standards

Representation ANSI X3

Scope National and international organization of 33 000 members engaged in data processing, systems development, and use and management of computers and related equipment.

Standardization Activities Participates in standards development in the data standardization field through its membership and active representation on the American National Standards Committee X3 on Computers and Information Processing. Encourages and publicizes efforts toward the development of standards in data processing equipment, terminology, data codes, analysis, documentation, and computer programming languages through its quarterly publication Information Executive. Solicits review and comment by its members on proposed standards.

Formerly National Machine Accountants Association (1951-1962)

Keywords data processing; information systems management; computers;

DFA OF CALIFORNIA

Frank A. Mosebar, President

P.O. Box 270-A
303 Brokaw
Santa Clara, California 95052
Founded: 1908 Standards Staff: 3

Type of Organization Trade Association
Standards Developer

Standards Development Standards developer since 1909.

Standards Designation DFA Dried Fruit and Tree Nut Grades and Specifications.

Certification DFA of California Certificate of Quality is issued for shipments meeting industry requirements and grades for superior quality. Certificates issued as a result of this type of inspection have achieved worldwide acceptance and establish a prime focal evidence of a "delivery" by the shipper. Services also include prune, walnut, and fig inspections as required by federal or state marketing orders governing these products, and inspections of the majority of dried apples, cut fruits, and pistachio nuts produced in California under private contract.

Secretariats U.S. Technical Advisory Group for ISO/TC 34 - Subcommittee 13, Dried Fruit.
ECE, Group of Experts on dry and dried fruit.

Scope An association of California's dried fruit and tree nut processors handling 95 percent of California's annual one billion dollar dried fruit and tree nut production.

Standardization Activities Establishes grade standards, considered national in scope, for dried fruits and tree nuts. These define defects and certain quality standards as set forth in USDA grades and industry specifications. Standards comply with both the domestic and foreign requirements. Buyers need to know that goods shipped comply with contract descriptions. Standards developed encompass industry specifications for dried fruit and tree nuts produced in California. Also acts as the research agency in developing such standards as may be required for new products developed in the dried fruit industry. Cooperates with foreign governments and submits food additives petitions used in the dried fruit and tree nut industries.

Availability Distributed directly.

Formerly Dried Fruit Association of California

Keywords dried fruit; tree nuts; agriculture; food; inspection;

DIAMOND WALNUT GROWERS

William Cuff, President

1050 South Diamond Street
P.O. Box 1727
Stockton, California 95201
(209) 467-6000

FAX: (209) 467-6250

Founded: 1912

Type of Organization Trade Association.
Standards Developer.

Standards Development 80 domestic, 6 Canadian, 44 foreign, 129 special customer standards.

Certification DWGI employs a Quality Control Department and the services of DFA of California to certify products during processing and at time of shipment.

Scope A nonprofit cooperative association owned by 2200 walnut growers who produce 48 percent of the walnuts grown in the state of California.

Standardization Activities Develops standards for shelled walnuts with all statements of tolerances restraints and definitions concerning size, color, and defective kernels from United States Standards for Shelled Walnuts (*Juglans regia*), 23 F.R. 10354, January 25, 1959, and Department of Agriculture, Consumer and Marketing Service Walnut Color Chart of 1967, except where superseded by the Code of Federal Regulations, Title 21, Section 128.10, March 30, 1972, or other applicable sections. Established four color and five size standards for inshell walnuts with tolerances and definitions concerning size, color, and grade defects from United States Standards for Grades of Walnuts (*Juglans regia*) in the Shell, 29 F.R. 12865, September 12, 1964, as amended September 1, 1968, 33 F.R. 10840.

Standards are national in scope and DWGI markets walnuts under the Agricultural Marketing Agreement Act of 1937, as amended, with administration by the Walnut Marketing Board in Sacramento. DWGI's involvement with other governmental agencies includes the Department of Agriculture, Fruit and Vegetable Division, Food and Drug Administration, State Food and Drug Administration, Economic Research Service, Foreign Agricultural Service, and the Department of Commerce.

Standards promoted through 88 domestic and 33 foreign brokers.

Availability Distributed directly.

Formerly California Walnut Growers' Association (1955)

Keywords walnuts; edible nuts; agriculture; food;

DIAMOND WHEEL MANUFACTURERS INSTITUTE

J. J. Wherry, Manager

30200 Detroit Road
Cleveland, Ohio 44145
(216) 899-0010

FAX: (216) 892-1404

Founded: 1963

Standards Staff: 3

**Type of
Organization**

Trade Association.
Standards Developer.

**Standards
Development**

4 active standards.
ANSI approved.

**Standards
Designation**

ANSI B74.x.

Scope

Manufacturers of grinding wheels and blades in which diamonds are used as the abrasive.

**Standardization
Activities**

The Standards and Safety Committee has developed standards for shapes and sizes of diamond grinding wheels and hand hones, size and density of diamond abrasive grain, and an identification code for diamond wheel shapes. These have been processed through ANSI. Also cooperates with ISO/TC 29/WG 5 on international standards.

Availability

Directly and through ANSI.

Keywords

grinding wheels; diamond abrasives; manufacturing;

DISTILLED SPIRITS COUNCIL OF THE UNITED STATES

F. A. Meister, President/CEO

1250 Eye Street, NW
Washington, DC 20005
(202) 628-3544

FAX: (202) 682-8888

Founded: 1973

**Type of
Organization**

Trade Association.
Works through other organizations to develop standards.

Scope

The Distilled Spirits Council of the United States represents producers and marketers of distilled spirits in the United States. Its primary mission is to advance the interests of the industry, while educating

the general public about the distilled spirits industry's economic, public policy and cultural contributions.

**Standardization
Activities**

Through its standing committees of technical experts from member companies, develops recommended guidelines pertinent to the industry. Initiates studies, as needs are foreseen or dictated by developments in the regulatory and/or private sectors. Cooperates with federal agencies and other groups. Projects include plant fire protection recommendations and metric size standards, both domestic and international.

Formerly

Distilled Spirits Institute
The Bourbon Institute
Licensed Beverage Industries

Keywords

alcoholic beverages; distilled spirits; metric; fire protection;

DOOR AND HARDWARE INSTITUTE

Gerald S. Heppes, CAE, Executive Director

14170 Newbrook Drive
Suite 200
Chantilly, Virginia 22021-2223
(703) 222-2010 FAX: (703) 222-2410
Founded: 1934 Standards Staff: 2

**Type of
Organization**

Trade Association.
Standards Developer.

**Standards
Development**

22 active standards.
Standards processed through ANSI.
Draft standards available for review.
Invitation to review announced through ANSI.

**Government
Adoption**

"A115" Series for steel and wood doors has been adopted by the Department of Veterans Affairs, GSA, and DoD.

Scope

Wholesalers and specifiers distributing doors and builders' hardware to architects, contractors, and builders. Conducts management and technical courses and statistical surveys. Sponsors technical research and establishes standards.

**Standardization
Activities**

Formulates standard specifications for preparation of standard steel doors and frames for builders' hardware. Works closely with BHMA, NAAAM, ISDSI, NWWDA and SDI in developing standards. Solicits technical input from all affected interests, including government and industry organizations.

Availability Distributed directly and through ANSI.
Formerly National Builders Hardware Association
Keywords doors; architectural hardware; building;

DOOR OPERATOR AND REMOTE CONTROLS MANUFACTURERS ASSOCIATION

John H. Addington, Executive Director

1300 Sumner Avenue
Cleveland, Ohio 44115-2851
(216) 241-7333 FAX: (216) 241-0105

Founded: 1959 Standards Staff: 3

Type of Organization Trade Association.
Works through other organizations to develop standards.

Scope A national trade association comprised of manufacturers of vehicular door operators -- residential, commercial, or industrial -- and/or remote controls for the operation.

Standardization Activities Maintains a technical committee which developed a Minimum Standard for Heavy Duty Industrial and Commercial Draw Bar Type Electrically Powered Door Operators. It no longer develops standards but cooperates with Underwriters Laboratories in its development of UL 325, Standard for Safety for Door, Drapery, Gate, and Window Operators and Systems. Also cooperates with the Federal Communications Commission regarding the rules and equipment authorization procedures for radio frequency devices. Cooperates with the Consumer Products Safety Commission and the National Safety Council on the safe use of the equipment.

Keywords doors; remote control; hardware; buildings;

DUCTILE IRON PIPE RESEARCH ASSOCIATION

Troy F. Stroud, P.E., President

245 Riverchase Parkway East
Suite 0
Birmingham, Alabama 35244
(205) 988-9870 FAX: (205) 988-9822

Founded: 1915

Type of Organization Trade Association.
Works through other organizations to develop standards.

Representation Four members active in voluntary standards including representatives on standards committees of ANSI, ASTM, AWWA, ASME, NFPA, and others.

Scope American manufacturers of ductile iron pipe, dedicated to maintaining the highest piping standards through a program of continuing research. Ductile iron pipe is used extensively for water and wastewater applications.

Standardization Activities Participates in national committees that develop product standards pertaining to ductile iron pipe, including standards for manufacture, design, installation, joints, coatings, linings, fittings, and other appurtenances. Utilities and consulting engineers frequently incorporate these standards in purchase orders and contract specifications. Members also provide standards committees with research and test data concerning their products.

Formerly Cast Iron Pipe Publicity Bureau (late-1920's)
Cast Iron Pipe Research Association (1979)

Keywords pipe; fittings; water; wastewater; plumbing; sanitation; industrial equipment;

EDISON ELECTRIC INSTITUTE

Garry N. Miller, Manager, Standards and Technical Support

701 Pennsylvania Avenue NW.
Washington, DC 20004-2608
(202) 508-5173 FAX: (202) 508-5225
e-mail: garrymee@eei.com

Founded: 1933 Standards Staff: 2

Type of Organization Trade Association.
Work through other organizations.

Representation EEI member companies participate in standards development through more than 300 representatives serving on more than 100 standards committees of ANSI, IEEE, ASME, NIST, NEMA, NFPA, ASTM, and others. These standards committees develop over 500 standards of interest to electric utilities.

Scope

Edison Electric Institute is the association of the United States investor-owned electric utilities and industry affiliates worldwide. Its U.S. members generate approximately 79 percent of all the electricity in the country and service 76 percent of all ultimate customers in the nation. EEI provides the principal forum where electric utility people exchange information on developments in their business and maintain liaison between the industry and the federal government. Its officers speak on issues of national interest on behalf of the electric utility industry.

**Standardization
Activities**

Standards participation activities are directed towards increasing use of cost-effective programs and innovative techniques in standards to maximize the effectiveness of its representatives serving on national and international standards committees.

Electric utility companies make extensive use of standards and actively participate in committees developing applicable standards. These include standards for electric power generation, transmission and distribution equipment, such as boilers, all types of turbines, transformers, circuit breakers, and valves; all aspects of radiation measurement and protection; standards for safety and health, air and water quality, computers; fire protection; and many others.

Although the Institute is not a standards developing organization, it works within the voluntary standards system to coordinate electric utility industry standards activities and act as the industry voice. The EEI Policy Committee on Energy Resources has overall responsibility for directing all EEI activities relating to codes and standards. It recommends policy to the EEI Board in regard to participation in standards development work within the voluntary consensus organizations and coordination with government agencies which develop or reference standards in the regulatory process.

The Standards Coordinating Task Force coordinates high priority standards activities of interest to the industry and provides relevant information to member companies through a formal program which interfaces directly with standards developing organizations. It also monitors and coordinates participation in the development of metrication programs within the electric utility industry.

In addition, each EEI Technical Committee, Generation, Transmission and Distribution, is responsible for monitoring the work of standards developing committees in their subject area. The EEI Technical Committees accomplish this through their Codes and Standards Subcommittees which, in cooperation with the Association of Edison Illuminating Companies, advise the Electric Light and Power representatives on standards committees of the industry's position on proposed new or revised standards.

Keywords energy; electric power; electrical equipment; metric;

ELASTIC FABRIC MANUFACTURERS COUNCIL OF NORTHERN TEXTILE ASSOCIATION

Karl Spilhaus, President

230 Congress Street
Boston, Massachusetts 02110
(617) 542-8220 FAX: (617) 542-2199

Founded: 1953 Standards Staff: 1

**Type of
Organization**

Trade Association.
Standards Developer.

**Standards
Designation**

NTA-EC prefix.

Scope

Represents the elastic fabrics industry of the United States.
Became part of Northern Textile Association in 1970.

**Standardization
Activities**

Actively engaged in the establishment, review, revision, and promulgation of standard test methods, performance standards, and specifications for standard types of knitted, woven and braided elastic fabrics and non-elastic braided trimmings. Current standards include: Woven Waistband Elastic Minimum Performance Standard/A Performance Standard for Webbing Used in Men's and Boys' Underwear and Pajamas; Methods of Testing Wide Elastic Fabrics-Tension and Stretch, NTA-EC-1-71.

In addition to counseling engineering societies, such as the American Society for Testing and Materials and federal agencies, the EFMC's Technical Committee is a source for interlaboratory testing and test methods, review of product characteristics, and the development of suggested tolerances and specifications.

Availability

Distributed directly.

Formerly

Elastic Fabric Manufacturers Institute (1970)

Keywords

textiles; fabrics; braids; trim; webbing; elastic;

ELECTRICAL APPARATUS SERVICE ASSOCIATION

Bruce J. Benes, Executive Vice President

1331 Baur Boulevard
St. Louis, Missouri 63132
(314) 993-2220 FAX: (314) 993-1269

Founded: 1933 Standards Staff: 2

**Type of
Organization**

Trade Association.
Standards Developer.

Scope

An international trade association of companies that sell, service, and repair industrial electric motors, generators, transformers, controls, and similar electro-mechanical equipment. Over 2700 members worldwide.

**Standardization
Activities**

Develops standards and limited warranties for the electrical apparatus sales and service industry that cover the mechanical and electrical aspects of repair, rebuilding, and testing electro-mechanical equipment. This includes single and polyphase AC induction motors, DC motors and generators, transformers (liquid and dry types), hermetic motors, and hand power tools. Also defines the condition of electrical equipment for sale, and has written standard warranties for each condition specified. Developed set of electrical safety standards.

Availability

Distributed directly.

Formerly

National Industrial Service Association (1960)

Keywords

electrical equipment; electric motors; generators; machinery;

ELECTRICAL GENERATING SYSTEMS ASSOCIATION

David L. Kellough, Executive Director

10251 West Sample Road
Suite B
Coral Springs, Florida 33065
(305) 755-2677 FAX: (305) 755-2679
Founded: 1965 Standards Staff: 1

**Type of
Organization**

Trade Association.
Standards Developer.

Scope An international industry organization representing manufacturers and distributors involved with the generation, transmission, storage, and control of electrical energy not directly supplied by the public utility companies.

Standardization Activities Maintains a cooperative standards program for developing and promulgating standards and specifications to serve the industry and its customers; provides an effective liaison between the industry and its customers, both civilian and military, for the interchange of information and ideas; and assists its customers in obtaining the most advanced and reliable products from the industry.

Availability Distributed directly.

Formerly Engine Generator Set Manufacturers Association (1971)
Electrical Generating Systems Marketing Association

Keywords electrical generators; electrical power; energy; electrical equipment;

ELECTRONIC INDUSTRIES ASSOCIATION

Dan Bart, Vice President, Standards and Technology

2500 Wilson Boulevard
Suite 400
Arlington, Virginia 22201
(703) 907-7703 FAX: (703) 907-7501
e-mail: dbart@tia.eia.org
WWW: <http://www.eia.org>

Founded: 1924 Standards Staff: 14

Type of Organisation

Trade Association.
Standards Developer.

Standards Development

Has developed standards since 1926, and became ANSI accredited in 1988. The Engineering Department provides the home for over 200 EIA Engineering Committees and Subcommittees that develop EIA and JEDEC standards and other technical publications. Over 5000 technical personnel from member companies participate in standards activities through committees, subcommittees and task groups.

Standards Designation

EIA prefixes such as ANSI/EIA, EIA, EIA/IS, QC, PQC, or JEDEC prefixes such as JESD, and JEP.

Government Adoption The Department of Defense adopts EIA Standards applicable to their needs.

Certification EIA is the National Standards Organization which is responsible for the International Electrotechnical Commissions's IECQ certification system within the United States.

Secretariats IEC TC 46 (Cables, Wires, Waveguides, R.F. Connectors, and Accessories for Communication and Signaling).
 IEC SC 46B (Waveguides and Accessories).
 IEC SC 46D (Connectors for R.F. Cables).
 IEC TC 47 (Semiconductor Devices).
 IEC SC 47D (Mechanical Standardization of Semiconductor Devices).
 IEC TC 48 (Electromechanical Components and Mechanical Structures for Electric Equipment).
 IEC SC 48B (Connectors, L.F.).
 IEC TC 76 (Laser Equipment).
 IEC TC 86 (Fibre Optics).
 IEC SC 86C (Fibre Optic Systems Specifications).

Scope A national trade association of companies involved in the manufacture of electronic components, equipment, and systems for consumer, industrial, and government applications. They represent their members in national and international standards arena.

Standardization Activities Involved in standardizing components, such as resistors, capacitors, switches, transformers, inductors, transistors, integrated circuits, television tubes, broadcast equipment, data transmission, numerical control, printed circuits, radios, phonographs, satellite communications, and tape systems. Processes standards through ANSI and the IEC. Standards are in use throughout the world either by direct application or by adoption as an international standard. Engineering standards are designed to eliminate misunderstanding between manufacturers and purchasers, facilitate interchangeability and improvement of products, and assist the purchaser in selecting and obtaining with minimum delay the proper product for his particular need.

Availability Distributed through IHS, Global Engineering Documents and ANSI.

Formerly Radio Manufacturers Association (1958)
 Radio-Electronics-Television Manufacturers Association (1957)
 Absorbed: Magnetic Recording Industry Association

Keywords electronics; industrial equipment; electrical equipment; defense; consumer products; data processing;

ELECTRONIC MEDIA RATING COUNCIL

Melvin A. Goldberg, Executive Director

509 Madison Avenue
New York, New York 10022
(212) 754-3343

Founded: 1963

Standards Staff: 1

Type of
Organization

Trade Association.
Standards Developer.

Scope

The Electronic Media Rating Council is responsible for determining criteria and standards for audience measurement services; establishing and administering a system of accreditation for audience measurement services; providing and administering an audit system designed to insure users that audience measurements are conducted in conformance with the criteria, standards and procedures developed.

Standardization
Activities

The Rating Council is composed of representatives from TV and radio networks, broadcast groups and industry associations representing cable, radio, television, advertising agencies and advertisers. The Council sets the minimum standards which rating services are expected to meet to merit accreditation. The standards involve such items as ethical and operational standards (governing the quality and integrity of the entire activity) and disclosure standards (specifying the detailed information about a rating service which must be made available to users, as well as the form in which the information should be made available).

Formerly

Broadcast Rating Council (1982)

Keywords

audience measurement; ratings; radio; television; cable; audit; accreditation; communications;

ELECTROSTATIC DISCHARGE ASSOCIATION

Ann Razzano-Stedman, Office Manager

7902 Turin Road
Suite 4
Rome, New York 13440-2069
(315) 339-6937

FAX: (315) 339-6793

Founded: 1982

Standards Staff: 1

Type of Organization	Professional Society. Standards Developer.
Standards Designation	Published documents are designated ANSI/ESD or ESD. (Prior to January 1, 1993, the Association was known as the Electrical Overstress/Electrostatic Discharge Association and used the acronym EOS/ESD. Documents published and printed prior to that used the ECS/ESD acronym where the ESD acronym is now used.)
Government Adoption	Documents are submitted for adoption to the Department of Defense (DoD).
Certification	Certification of ESD technicians and ESD professionals is done using qualifications standards designated by the ESD Association. Program is administered through NARTE.
Secretariats	U.S. TAG to IEC 15D, Electrostatics.
Scope	The design, hardening and prevention aspects of electrical over-stress. This especially includes the phenomena of electrostatic discharge and its control as applicable in design, manufacturing and end use. Emphasis shall be placed upon design requirements, evaluation and test procedures and standardization of these practices.
Standardization Activities	ESD Association standards committee collects data, evaluates proposed test methods, drafts and publishes documents to meet the technical needs of the electronic industry. These documents are published as draft standards, standards and advisories. Areas covered include FAB manufacturing, chip design, PCB manufacturing, handling of sensitive devices, measurement of static control devices, packaging of devices and definitions for terms and phrases.
Availability	Distributed directly and through ANSI.
Formerly	Electrical Overstress/Electrostatic Discharge Association (1993)
Keywords	electrical overstress; electrostatic discharge; ESD; EOS; static;

THE ENGINEERED WOOD ASSOCIATION

William A. Baker, Manager, Market Support Services

P.O. Box 11700
Tacoma, Washington, 98411
(206) 565-6600 FAX: (206) 565-7265

Founded: 1933 Standards Staff: 5

**Type of
Organization**

Trade Association.
Standards Developer.

**Standards
Development**

Eleven active standards.
None processed through ANSI.
Draft standards available for review by members and others at
discretion of EWA.

**Government
Adoption**

PS 1 and PS 2 adopted by all government agencies.
Other EWA standards recognized by most federal, state and local
jurisdictions.

Secretariats

Secretariat for NIST Industry Standards Committee which was
organized to review and keep current Voluntary Product Standards
PS 1 and PS 2.

Scope

A nonprofit industry trade association engaged in ad-vertising,
promotion, quality testing and inspection, product and applied
research, and codes and standards activities. Membership consists
of mills involved in the manufacture of plywood and other
structural-use panels, glued-laminated timber, I-joists, and of
structural composite lumber.

**Standardization
Activities**

EWA standardization activities are administered by the
Technical Services Division and encompass engineering design,
manufacture, and application of engineered wood products produced
by its members. Standards are submitted for reference and adop-
tion in building codes and other construction standards. Leader
in the development of performance criteria for qualification of
structural panels in accordance with their end use, which are
incorporated into performance standards and policies.

Cooperates with the Department of Commerce, National Institute of
Standards and Technology; the Department of Housing and Urban
Development, Federal Housing Administration; Department of Trans-
portation; Department of Defense; National Institute of Building
Sciences; and the General Services Administration. Also partici-
pates on committees of the American Society for Testing and
Materials.

Active member of ISO/TC 89-Wood Backed Panels and TC 165-Timber Structures. Participates in the International Union of Testing and Research Laboratories for Materials and Structures, and in the International Council for Building Research Studies and Documentation, Working Commission CIB/W18 - Timber Structures.

Availability Sold directly.

Formerly Douglas Fir Plywood Association; American Plywood Association (1964)

Keywords plywood; structural panels; sheathing; siding; building; construction; wood products; structural composite lumber; glulam; I-joists;

ENTOMOLOGICAL SOCIETY OF AMERICA

Raymond L. Sverngam, Jr., Managing Editor

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e-mail: info@entsoc.org

Founded: 1889 Standards Staff: 1

Type of Organization Scientific Society.
Standards Developer.

Standards Designation Approved Common Names of Insects.

Scope Professional society of entomologists and others interested in the study and control of insects. Maintains specialized education, placement service, and research programs. Compiles statistics.

Standardization Activities Committees work to standardize and define common and scientific names of insects and related arthropods, as well as insecticide names.

Availability Distributed directly.

Keywords insects; entomology; insecticides; pesticides; public health; materials;

ENVIRONMENTAL INDUSTRY ASSOCIATIONS

John A. Legler, Executive Vice President

4301 Connecticut Avenue, NW
Suite 300
Washington, DC 20008
(202) 244-4700

FAX: (202) 966-4824

Standards Staff: 3

Type of Organization Trade Association.
Standards Developer.

Standards Designation ANSI Z245.x.

Secretariats ANSI Accredited Standards Committee Z245 on Refuse Processing, Collection and Disposal.

Scope 2000 companies involved in solid and hazardous waste management and suppliers of waste equipment.

Standardization Activities Develops safety standards primarily associated with the solid waste management industry. Includes procedures for the manufacturing, installation, and operation of equipment and facilities. Standards Committee includes manufacturers, distributors, end-users or operators, government regulation and/or enforcement agencies, and special purpose or trade associations.

Availability Distributed through ANSI, and WASTECC.

Formerly Corporate reorganization in 1993
National Solid Wastes Management Association and Waste Equipment Manufacturers Institute

Keywords solid waste; refuse; public health; sanitation;
industrial equipment; recycling; resource recovery;

EQUIPMENT AND TOOL INSTITUTE

Donn R. Proven, Executive Manager

1806 Johns Drive
Glenview, Illinois 60025
(708) 729-8550
Founded: 1947

FAX: (708) 729-3670
Standards Staff: 2

Type of Organization Trade Association.
Standards Developer.

Scope Manufacturers of automotive service equipment and tools.

Standardization Activities Prepares test equipment performance guidelines. Maintains the Performance Test Group which communicates with vehicle manufacturers to insure equipment compatibility and with federal and state agencies to insure equipment complies with performance regulations. Publishes guidelines which provide performance criteria that can be used to characterize service equipment as being of a professional grade for the automotive technician. Equipment includes voltmeters, ohmmeters, brake testing equipment, wheel alignment, headlamp testers, timing devices, gauges, exhaust emission analyzers, and others.

Availability Distributed directly.

Keywords automotive equipment; instruments;

EQUIPMENT MANUFACTURERS INSTITUTE

John Crowley, Director of Engineering Programs

10 Riverside Plaza
Suite 1220
Chicago, Illinois 60606-3710
(312) 321-1470 FAX: (312) 321-1480
e-mail: AEA-EMI@ix.netcom.com

Founded: 1893

Type of Organization Trade Association.
Works through other organizations to develop standards.

Representation ASAE, SAE, ANSI.

Scope Provides an ongoing forum for manufacturers of farm construction and industrial equipment to work together in order to have an effective voice in decisions affecting their products, their companies, their industries, and the economic well-being of their customers.

Standardization Activities EMI is not a standards development organization. Committees of the Institute utilize industry expertise to develop proposals which are submitted to engineering standards organizations for consideration as possible voluntary standards. Almost all EMI standards proposals are submitted to the American Society of Agricultural Engineers, the Society of Automotive Engineers,

and (indirectly) to the American National Standards Institute and the International Organization for Standardization.

Formerly National Association of Agricultural Implement and Vehicle Manufacturers
National Association of Farm Equipment Manufacturers (1933)
Farm Equipment Institute (1965)
Farm and Industrial Equipment Institute (1990)

Keywords farm equipment; agricultural equipment; industrial equipment; construction equipment; agriculture; construction;

EXPANDED SHALE, CLAY AND SLATE INSTITUTE

John P. Ries, Managing Director

Post Office Box 21526
Salt Lake City, Utah 84121
(801) 272-7070 FAX: (801) 272-3377

Founded: 1952 Standards Staff: 2

Type of Organization Trade Association.
Standards Developer.

Scope The Expanded Shale, Clay and Slate Institute (ESCSI) is the international trade association for manufacturers of rotary kiln produced expanded shale, clay, and slate lightweight aggregate.

ESCSI promotes the extensive use of rotary kiln produced lightweight aggregate in the concrete masonry, ready-mix and precast markets. Based on research and development, educational material is disseminated to all phases of the building industry. The association works closely with other technical organizations to maintain product quality, life-safety, and professional integrity throughout the construction industry and related building code bodies.

Standardization Activities Active in ASTM, ACI, CSI, and ASCE in promulgating building codes, test methods, recommended practices, specifications, and standards for structural lightweight concrete, lightweight concrete masonry, and/or lightweight aggregates.

Publishes Guide Specifications for Structural Lightweight Concrete. Members' products meet requirements of Standard Specification for Lightweight Aggregates for Structural Concrete, ASTM C330.

Availability Distributed directly or through members.
Formerly Expanded Shale Institute (1952)
Keywords concrete; masonry; aggregates; construction; materials;

EXPANSION JOINT MANUFACTURERS ASSOCIATION

Richard C. Byrne, Secretary

25 North Broadway
Tarrytown, New York 10591
(914) 332-0040 FAX: (914) 332-1541
Founded: 1955 Standards Staff: 1

Type of Organization Trade Association.
Standards Developer.
Scope Manufacturers of joints for piping systems. Posters and studies the problems peculiar to expansion joints.
Standardization Activities Through its Technical Committee, engages in the improvement of standards which were developed in the interest of public safety and for guidance in design and determination of service capacities and quality of bellows expansion joints.
Keywords expansion joints; industrial equipment;

FACTORY MUTUAL RESEARCH CORPORATION

Carl E. Miller, Senior Vice President and
Chief Operating Officer

1151 Boston-Providence Turnpike
Post Office Box 9102
Norwood, Massachusetts 02062
(617) 762-4300 FAX: (617) 762-9375

Founded: 1835 Standards Staff: 190

Type of Organization Product Test and Certification Laboratory.
Standards Developer.

Representation	FMRC engineers participate in standards committees of the NFPA, ASME, ASTM, AWWA, IEEE, ISA, ANSI, ISO, and IEC.
Standards Designation	Data Sheets, Loss Prevention Data, D.S. prefix Approval Standards.
Government Adoption	Certain FMRC standards are referenced in codes and regulations of various local, state, and federal agencies. OSHA has designated FMRC as a test agency for certain types of equipment requiring approval.
Certification	Operates an approval service for a wide range of fire protection and property loss control products; registers quality systems for compliance with the ISO 9000 Series of quality standards. In addition, the approvals staff evaluates products to certify that they meet certain standards of other organizations (e.g., ASTM).
Scope	A nonprofit corporation, providing loss control standards development, basic research, applied research, and full-scale testing primarily for industrial, commercial, and institutional policyholders insured by Allendale Mutual, Arkwright, and Protection Mutual. Maintains full-scale testing laboratories and modeling techniques.
Standardization Activities	<p>Prepares loss prevention data sheets based on staff studies of industrial processes and hazards, loss experience, test work, and research by FMRC scientists and engineers, property inspections by field engineers and input from industry, professional and trade associations, and other sources. Subject matter includes building design and materials, fire protection equipment and systems, heating and electrical equipment, pressure vessels and boilers, hazardous materials and processes, and mechanical equipment. These sheets provide recommended guidelines for the protection of industrial, commercial, and institutional properties against fire, explosions, wind, boiler and machinery accidents, and other insured perils.</p> <p>Provides Approval Standards covering various types of fire protection equipment, flammable liquid equipment, fuel and combustion controls, boiler combustion safeguards, industrial trucks, electrical equipment, fire and burglar alarm systems and services, building material assemblies, and products. These specify requirements for approval and listing of equipment, materials, and services intended for loss control purposes and for potential hazards. An approval process includes inspection and audit of the product manufacturer's production and quality control facilities, with periodic follow-up. Approved products are typically labeled as "Factory Mutual Approved" or "FM Approved."</p>

Availability Data sheets and standards distributed directly.

Keywords fire protection; boilers; combustion; alarm systems; safety; hazards; electrical equipment; industrial equipment; insurance;

FACTS INSTITUTE FOR RESEARCH, STANDARDS AND TERMINOLOGY

Donald C. Pierce, Director

95 Mitchell Blvd.
San Rafael, California 94903
(415) 472-0800 FAX: (415) 472-2841

Founded: 1995 Standards Staff: 1

Type of Organization Standards Developing Organization.

Standards Development First standard developed in 1995; approximately 40 volunteer committee members; 1 active standard document.

Scope A not-for-profit organization dedicated to the professional and scientific advancement of the arts. Committees develop, fund and manage projects which advance the general knowledge and further application of the sciences in art. The purpose of research, consensus standards, and terminology is to further industry education and to better serve the public in all areas of the arts.

Standardization Activities The picture framing committee, established in 1995, is comprised of 40 members representing both manufacturing and retail interests. Its initial standard defines matboard and glazing terminology used in the picture framing industry. Additional standards are under development.

Availability Decor Magazine, 330 N. Fourth St., St. Louis, MO 63102; Larson-Juhl, 3900 Steve Reynolds Blvd., Norcross, GA 30093; PFM PubCo., 225 Gordon's Corner Plaza, Manalapan, NJ 07726.

Keywords picture framing; matboard; glazing; glass; acrylic sheet;

FELT MANUFACTURERS COUNCIL OF NORTHERN TEXTILE ASSOCIATION

Karl Spilhaus, President

230 Congress Street
Boston, Massachusetts 02110
(617) 542-8220 FAX: (617) 542-2199

Founded: 1915 Standards Staff: 1

Type of
Organization

Trade Association.
Standards Developer.

Standards
Designation

FS14-68/71.

Scope

Represents over 80 percent of the pressed felt industry of the United States. Part of Northern Textile Association since 1961.

Standardization
Activities

Actively engaged in the establishment, review, revision, and promulgation of physical and chemical specification requirements for standard types of wool felt in both roll and sheet form. The currently active specification is Wool Felt Standard Specification, FS14-68/71.

In addition to counseling federal agencies and engineering societies, such as the American Society for Testing and Materials and Society of Automotive Engineers, on their wool felt specifications, provides new technical information and papers covering additional wool felt performance characteristics which have not yet reached specification requirement status.

Availability

Distributed directly.

Formerly

Felt Association of New York City

Keywords

felt; textiles; materials;

FIBRE BOX ASSOCIATION

Bruce Benson, President

2850 Golf Road
Rolling Meadows, Illinois 60008
(708) 364-9600 FAX: (708) 364-9639
Founded: 1940 Standards Staff: 1

Type of Organization Trade Association.
Standards Developer.

Scope A nonprofit trade association representing manufacturers of corrugated and solid fibreboard. Aims to promote the industry's general welfare; to represent members before appropriate government, transportation, industrial, or other agencies; to compile and disseminate statistical information; and to develop data useful to its members in marketing their products.

Standardization Activities Holds membership in the International Corrugated Case Association and participates in pertinent activities of the American National Standards Institute and the International Organization for Standardization. Advises federal government bodies preparing standards and specifications involving corrugated and solid fibreboard, particularly the General Services Administration.

In conjunction with the Packaging Machinery Manufacturers' Institute, it has issued five joint voluntary standards and one recommended practices bulletin, referenced in the FBA Handbook.

Availability Distributed directly.

Keywords cardboard; box; corrugated board; fiberboard; packaging;

FINANCIAL ACCOUNTING FOUNDATION

Joseph S. LaGambina, Executive Vice President

401 Merrit
Post Office Box 5116
Norwalk, Connecticut 06856-5116
(203) 847-0700 FAX: (203) 849-9714

Founded: 1973

Type of Organization Standards Developer.

Standards Designation FASB Statement.
GASB Statement.

Government Adoption Securities and Exchange Commission (for the FASB).
Rules of Conduct of American Institute of CPAs.
Various state laws (for the GASB).

Scope Independent, nonprofit organization. Sponsored jointly by American Institute of CPAs, Financial Executives Institute, Association of Investment Management and Research, Institute of Management Accountants, American Accounting Association, Securities Industry Association, Government Finance Officers Association, National Association of State Auditors, Comptrollers and Treasurers. Issues statements, interpretations, technical bulletins, concepts statements; follows "due process" procedures that include use of task forces of experts, issuances of papers, public hearings, release of exposure drafts.

Standardization Activities Develops standards for accounting and financial reporting that govern the general purpose financial reports published by business corporations, state and local government entities, and other organizations. These standards form the base of "generally accepted accounting principles."

Follows due process procedures designed to ensure broad public participation at each stage in the standard setting process. Board meetings and deliberations are open for public observation.

Has Advisory Councils to advise on agenda projects, priorities, and technical solutions to accounting issues.

Availability Distributed by the Financial Accounting Foundation.

Formerly Financial Accounting Standards Board

Keywords accounting; financial reporting;

FLEXIBLE PACKAGING ASSOCIATION

Mark G. Wygonik, Director of Technology and Regulatory Affairs
 1090 Vermont Avenue, NW.
 Suite 500
 Washington, DC 20005
 (202) 842-3880 FAX: (202) 842-3841
 Founded: 1950 Standards Staff: 3

Type of Organization Trade Association.
 Standards Developer.

Standards Development Developer of voluntary guidelines for flexible packaging materials.
 32 active standards for cellophane, polyethylene, polyester, and laminated and coated products, sterile medical packaging, and test methods.

Scope Represents converters of packaging materials and suppliers of film, adhesives, printing inks, and converting machinery. Services include government relations, technical information, statistical information, educational and public relations, and membership.

Standardization Activities Continuous review of industry's need for voluntary regulations. Specifications often serve as the basis for agreement between a converter or supplier and their customers (end-users). Specifications recognized as equal to those of ASTM (American Society for Testing and Materials) and TAPPI (Technical Association of the Pulp and Paper Industry). Works toward eliminating duplication of effort by other standards organizations, although some overlap is required.

Availability Sold directly.

Formerly National Flexible Packaging Association

Keywords packaging; plastic film; cellophane; polyethylene; printing; polyester; laminating; bags; aseptic packaging; medical packaging;

FLIGHT SAFETY FOUNDATION

Stuart Matthews, President and CEO

601 Madison Street
 Suite 300
 Alexandria, Virginia 22314
 (703) 522-8300 FAX: (703) 525-6047
 Founded: 1945

Type of Organization Nonprofit Foundation for safety information exchange. Works with other organizations to develop standards.

Scope Fosters the exchange of safety ideas and information to enable government and industry worldwide to continually upgrade safety standards and practices.

Standardization Activities Acts through consultation, committee participation, publications, workshops, and regional and international seminars.

Keywords flight safety; safety; aviation; transportation;

FLUID CONTROLS INSTITUTE

Chris Johnson, Executive Secretary

1300 Sumner Avenue
Cleveland, Ohio 44115
(216) 241-7333 FAX: (216) 241-0105
Founded: 1921 Standards Staff: 3

Type of Organisation Trade Association.
Standards Developer.

Standards Development Standards developer since 1955.
100 member companies participate in standards
development through product sections.
18 published standards.
4 processed through ANSI.

Standards Designation FCI or ANSI/FCI prefixes.

Certification No certification, qualification, or accreditation programs.

Scope A nonprofit association of manufacturers of devices for fluid
control and fluid conditioning. Includes pressure, temperature,
and volumetric regulators; modulating service control valves;
solenoid valves; steam traps; fluid clarification equipment such
as strainers, separators and filters; silent check valves; pres-
sure and temperature gauges; process control switches and related
equipment.

Standardization Activities Develops, promotes, and adopts standards. Holds
membership in the American National Standards Institute; maintains
liaison with International Organization for Standardization and
the International Electro-technical Commission. Works with
Instrument Society of America, National Fluid Power Association,
and Scientific Apparatus Manufacturers Association on domestic
standards.

Availability Distributed directly and through ANSI.

Formerly National Association of Steam and Fluid Specialty Manufacturers
(1941)
National Steam Specialty Club (1956)

Keywords gauges; regulators; valves; fluid controls; instruments; indus-
trial equipment;

FLUID SEALING ASSOCIATION

Robert H. Ecker, Executive Director

2017 Walnut Street
Philadelphia, Pennsylvania 19103
(215) 569-3650 FAX: (215) 569-1410
Founded: 1933 Standards Staff: 3

Type of Organization Trade Association
Standards Developer

Representation Works through ASTM, NAVSEA and U.S. Coast Guard to develop standards.

Standards Development FSA has been developing handbooks for at least 20 years, but has only (in the past 10 years) developed its own standards. None have been submitted to ANSI. Currently has 5 active standards defining test methods for sealant materials, measurement, and gasket performance.

Government Adoption Currently 4 standards are referenced by federal agencies.

Certification FSA does not certify or accredit.

Scope FSA is an international trade association. Members are involved in the production and marketing of virtually every kind of fluid sealing device in the world. Publishes handbooks and technical data on many aspects of fluid sealing and collect; analyzes and disseminates information about trends in business, markets, materials, technology, government regulations and trade which may affect our membership. Current membership is 82 companies.

Formerly Changed name from Mechanical Packing Association (1970)

Keywords gaskets; packing; expansion joints; mechanical seals; molded packing;

FOOD PROCESSING MACHINERY AND SUPPLIES ASSOCIATION

George Melnykovich, Ph.D., President

200 Daingerfield Road
Alexandria, Virginia 22314
(703) 684-1080 FAX: (703) 548-6563
Founded: 1885

Type of Organization Trade Association.
Works through other organizations to develop standards.

Scope Firms manufacturing machinery and providing services and supplies for the canning, freezing, and food processing industry.

Standardization Activities A Technical and Sanitation Committee is responsible for the administration of standards related activities (in cooperation with associations dealing with the establishment of standards) for materials used in the production, preparation, processing, and packaging of foods and other products which are packaged in glass, metal, fibre, and/or plastic. Cooperates with the National Food Processors Association and the Can Manufacturers' Institute in the standardization of sizes of tin cans and with the Glass Container Association of America in developing standard sizes of glass containers.

Formerly Canning Machinery and Supplies Association

Keywords canning; food processing; packaging;

FORGING INDUSTRY ASSOCIATION

Karen Lewis Taylor, Director of Membership Development

25 Prospect Avenue West
Suite 300
Cleveland, Ohio 44115
(216) 781-6260 FAX: (216) 781-0102

Founded: 1913 Standards Staff: 2

Type of Organization Trade Association.
Works with others to develop standards.

Standards Development Four guidelines on allowances and tolerances for forgings and rolled rings.

Representation Members represent FIA on standards committees of ANSI, ASME, NFPA, and others.

Scope A nonprofit corporation composed of North American producers of forgings and producers of raw materials, equipment, or services commonly used in the forging industry.

Standardization Activities Works within the voluntary standards system to coordinate forging industry safety and product standards and acts as the industry voice. Represents the industry to standards developing organizations such as ANSI, ASME, and NFPA. FIA is also represented by members on American National Standards Committees.

Publishes Guidelines for Tolerances for Hot Forged Impression Die Forgings; Hammer, Press and Upsetter; Tolerances for Precision Aluminum Forgings; and Allowances and Tolerances for Seamless Rolled Rings.

Formerly American Drop Forging Association (1935)
Drop Forging Association (1965)
Open Die Forging Institute Absorbed (1982)
Canadian Forging Association Absorbed (1983)

Keywords forging; rolled rings; machinery; materials;

FRICITION MATERIALS STANDARDS INSTITUTE

Gilbert N. Laycock, Executive Director

588 Monroe Turnpike
Monroe, Connecticut 06468-2363
(203) 452-1877 FAX: (203) 452-7951
Founded: 1948 Standards Staff: 2

Type of Organization Trade Association.
Works through other organizations to develop standards.

Scope An association of worldwide manufacturers of friction materials (brake linings, brake blocks, and clutch facings). Members represent over 80 percent of United States and Canadian manufacturers of friction materials.

Standardization Activities Standardization activities, administered by the Data Book and Technical Committee, comprise 25 percent of the total program. Issues catalogs using a standard numbering system for all current automotive brake linings, brake shoes, and clutch facings. A copyrighted numbering system is authorized for use by the Institute, its members and their customers. FMSI's standard numbering system is worldwide in scope. Publishes the Automotive Data Book.

Formerly Brake Lining Manufacturers Association (BLMA)

Keywords materials; brake linings; automotive; machinery; clutch facings;

GAS APPLIANCE MANUFACTURERS ASSOCIATION

C. Reuben Autery, President

1901 North Moore Street
Arlington, Virginia 22209
(703) 525-9565

FAX: (703) 525-0718

Founded: 1936

Standards Staff: 10

**Type of
Organization**

Trade Association.
Works through other organizations to develop standards.

Representation

Over two hundred representatives of member firms active in 50 standards committees of ANSI, ASTM, ASHRAE, ASME, NFPA, and others.

Certification

GAMA operates programs which randomly select gas and oil furnaces and boilers, and gas, oil, electric, and heat pump water heaters from participating members and tests them in accordance with DOE efficiency test procedures at ETL Testing Laboratories, Inc., to verify the manufacturers' established efficiency ratings which are published semi-annually.

Secretariats

Secretariat to ISO/TC 161. Convenor of Working Group 2 of ISO/TC 161. Administrator of U.S. Technical Advisory Group for ISO/TC 161 on gas controls.

Scope

A trade association for more than 250 manufacturers of residential, commercial, and industrial gas and oil fired appliances and equipment; gas, electric, heat pump, and oil water heaters; gas- and oil-fired central furnaces; and equipment used in the production, transmission, and distribution of natural gas.

**Standardization
Activities**

Works through the national standards promulgation procedures of other groups and organizations, which develop and maintain 80 standards. In this manner, a high quality manufacturers' input is provided in the development and constant maintenance of standards for gas and oil appliances and equipment, recognized as American National Standards by the American National Standards Institute.

Cooperates with government agencies, such as the Department of Commerce, Department of Energy, Consumer Product Safety Commission, Federal Housing Administration, Federal Trade Commission and General Services Administration.

Keywords

gas appliance; oil fired appliances; furnaces; water heaters; gas transmission equipment; energy; building; consumer products; industrial equipment;

GAS PROCESSORS ASSOCIATION

Mark Sutton, Executive Director

6526 East 60th Street
Tulsa, Oklahoma 74145
(918) 493-3872

FAX: (918) 493-3875

Founded: 1921

Standards Staff: 8

**Type of
Organization**

Trade Association.
Standards Developer.

**Standards
Designation**

Standards; Technical Publication TP; Research Report
RR.

Secretariats

ASTM Technical Division H of Committee D-2 on Petroleum
Products and Lubricants.

Scope

An international trade association of 150 member companies that
produce and process natural gas, or engage in processing, trans-
port, storage, or marketing of natural gas liquids. Six technical
subcommittees prepare and maintain industry standards applicable
to the gas processing industry. Standards include plant design
and analytical procedures for natural gas and gas liquids.

**Standardization
Activities**

Develops and maintains product specifications for
natural gas liquids (propane, butane, natural gasoline), princi-
pally for large inter-company industrial custody transfer.
Specifications require and include industry standards for gas and
liquid measurement, gas and liquid analysis, storage facilities,
and physical property data. Also maintains specifications for
LP-Gas consumer products (commercial propane and commercial
butane). A continuing research program is directed toward
development of measurement data and thermodynamic properties of
natural gas and gas liquid mixtures.

Availability

Sold directly and through IHS.

Formerly

Natural Gas Processors Association (1964)

Keywords

liquefied gas; natural gas; energy; consumer products;

GEMOLOGICAL INSTITUTE OF AMERICA

William E. Boyajian, President

1660 Stewart Street
Santa Monica, California 90404
(310) 829-2991 FAX: (310) 928-0247

Founded: 1931 Standards Staff: 2

**Type of
Organization**

Nonprofit Educational and Research Institution.
Standards Developer.

**Standards
Designation**

Diamond and Gemstone Quality Standards.

Certification

Grading reports issued by GIA's Gem Trade Laboratories are referred to as Diamond Quality Reports, although in the jewelry industry they are most often called certificates.

Scope

Promotes the jewelry trade, serves the needs and professional interests of members, and upgrades professional skills through educational programs in the identification and quality analysis of gemstones and pearls, jewelry making and repair, retailing and store management. Maintains gem testing and research laboratories and develops testing and grading equipment.

**Standardization
Activities**

Key elements of the Institute's education program are standard grading systems developed by the Institute to evaluate and appraise diamonds and colored stones. Standards for quality analysis and grading were first established for polished diamonds in 1953.

Keywords

diamonds; gemstones; jewelry; quality; grading; testing; consumer products;

GENERAL AVIATION MANUFACTURERS ASSOCIATION

Edward Simpson, President

1400 K Street NW.
Suite 801
Washington, DC 20005
(202) 393-1500 FAX: (202) 842-4063

Founded: 1970 Standards Staff: 1

**Type of
Organization**

Trade Association.
Standards Developer.

Standards Development Standards developer since 1974.
 Right active standards.
 None processed through ANSI.
 Draft standards not available for review.

Standards Designation GAMA Specifications.

Government Adoption The FAA accepts compliance with GAMA specifications in lieu of its own standards or regulations or as an acceptable means of meeting FAA regulations.

Scope A national trade association representing United States manufacturers engaged in the research, development, and manufacture of general aviation aircraft, aircraft engines, avionics, and component parts of general aviation aircraft.

Standardization Activities Directed toward meeting industry needs with respect to dissemination of operating, maintenance and safety information, or toward meeting government certification requirements. GAMA Standards include specifications for pilot's operating handbook, manufacturers' maintenance data, decals to minimize the misfueling of general aviation aircraft, electronic publications, and specifications for tape to mark fueling nozzles. In the case of standards developed to fulfill government requirements, FAA participates in the development and approval of the standards. Standards have been used worldwide by aircraft manufacturers in order to meet FAA's requirements. Monitors the activities of other standards developing organizations, including RTCA, SAE, ASTM, and ISO.

Availability Distributed directly.

Keywords aviation; avionics; transportation; maintenance; pilot training;

GLASS ASSOCIATION OF NORTH AMERICA

William J. Birch, Executive Vice President

White Lakes Professional Building
 3310 Harrison Street
 Topeka, Kansas 66611
 (913) 266-7013
 Founded: 1994

FAX: (913) 266-0272
 Standards Staff: 1

Type of Organization Business Association.
 Standards Developer.

Scope A nonprofit organization of firms engaged in glass distribution, installation and fabrication.

Standardization Activities Develops specifications, standards, and testing procedures for a variety of glass products. Technical committees are involved in Standards and Engineering, Appliance Specifications, Construction Specifications, Spandrel Specifications and Consumer Safety Glazing Legislation. Publishes the tempered Glass Engineering and Standards Manual, the Laminated Glass Design Guide, the Glazing Manual and the Sealant Manual.

Availability Distributed directly.

Formerly Glass Tempering Association

Keywords glass tempering; laminated glass; materials; building; glazing; distribution; installation;

GLASS PACKAGING INSTITUTE

Lewis D. Andrews, Jr., President

1627 K Street, NW
 Suite 800
 Washington, DC 20006
 (202) 887-4850
 Founded: 1945

FAX: (202) 785-5377
 Standards Staff: 2

Type of Organization Trade Association.
 Standards Developer.

Scope Represents the manufacturers of glass containers and closures producing 90 percent of the United States' output. Promotes the continued growth and acceptance of glass containers as desirable, competitive packages of beverages, foods, and other commodities.

Standardization Activities Maintains a Technical Committee augmented by specific subcommittees and task groups. This committee meets regularly with qualified specialists from participating firms to review and investigate unique technical problems developing in the industry. Participated in the development of the Department of Commerce Voluntary Product Standard for Carbonated Soft Drink Bottles (PS 73-89), which covers major considerations in the manufacture and control of containers for carbonated soft drinks.

Keywords packaging; glass containers;

GOLD INSTITUTE

John H. Lutley, President

1112 16th Street NW.
Suite 240
Washington, DC 20036
(202) 835-0185 FAX: (202) 835-0155

Founded: 1976 Standards Staff: 1

Type of Organization Trade Association.
Standards Developer.

Standards Designation Unified Number Designations.

Certification No certification programs; supplier self-certification.

Secretariats ASTM Committee B-2, Section on Unified Numbering System Designations for Precious Metals.

Scope An international trade association of miners, refiners, fabricators, and bullion dealers. Extends the market for the use of gold through publications, seminars, joint symposiums with technical organizations, and trade shows.

Standardization Activities Develops standard alloy designations for gold alloys for the Unified Numbering System for Metals and Alloys issued by the Society of Automotive Engineers (SAE) and the American Society for Testing and Materials (ASTM).

Availability Distributed directly and through ASTM and SAE.

Keywords gold; precious metals; bullion; alloys; materials;

GRAPHIC COMMUNICATIONS ASSOCIATION

Norman W. Scharpf, President

100 Daingerfield Road
Alexandria, Virginia 22314-2888
(703) 519-8160 FAX: (703) 548-2867

Founded: 1966 Standards Staff: 17

Type of Organization Industry Association.
Standards Developer.

Standards Development	Standards developer since 1976. 300 members plus staff participate in standards activities. 30 active standards or recommended specifications. 5 processed through ISO. Draft standards available for review.
Standards Designation	GCA Standard; recommended specifications.
Government Adoption	Department of Defense, Internal Revenue Service, and others have adopted GCA standards.
Certification	Produces Standard Reference Materials for testing conformance to IT2 Standards; developed conformance test suite for X3V1-related sections of ISO 8879; developing public identifier registration for ISO 8879.
Scope	An international membership association of printers, publishers, suppliers, and related industry firms dedicated to advancing the application of electronic technologies and modern management techniques in the graphic communications industry.
Standardization Activities	Develops standards and specifications for text processing and textual database identification; specifications for computer preparation of publications mailing labels; structures for magnetic tape transmittal of name and address information for printing and publishing applications; production specifications for web offset publications; operation codes for the pressroom; computer protocols for various functional areas; printing and publishing industry standards for electronic data interchange (ANSI X12) and bar codes (ANSI X3.182 & MH10.8M). Leads various industry specification committees, and takes a membership role in ANSI IT2, X3V1, ITI and related task groups.
Availability	Distributed directly and through Printing Industries of America, Inc.
Formerly	Graphic Communications Computer Association; PIA Computer Section
Keywords	printing; computers; text; mailing; information processing; communications; graphics;

GRAVURE ASSOCIATION OF AMERICA

Cheryl L. Kasunich, Executive Vice President

1200A Scottsville Road
Rochester, New York 14624
(716) 436-2150 FAX: (716) 436-7689

Founded: 1947 Standards Staff: 1

**Type of
Organization**

Trade Association.
Standards Developer.

Representation

CGATS.

**Standards
Development**

More than 50 volunteers participate in developing your standards.
Two active standards.
None processed through ANSI.
Draft standards are available for review.

**Standards
Designation**

GAA.

Scope

Association of printing firms using the gravure printing process. Promotes quality printed products through the cooperation of publisher, printer, engraver, supplier, and advertising agency.

**Standardization
Activities**

Provide guidelines for halftone input film and digital files for gravure publication proofing and printing and colorimetric specifications of gravure publication proofing and printing. Standards are produced through a network of councils and subcommittees on a voluntary basis. Two hundred and seventy member firms observe GAA standards in publication, packaging and specialty gravure.

Formerly

Merger of Gravure Technical Association and Gravure Research Institute (1988)

Availability

Distributed directly.

Keywords

printing; ink; paper; photomechanical printing; communications; packaging;

GRINDING WHEEL INSTITUTE

J. Jeffrey Wherry, Manager

30200 Detroit Road
Cleveland, Ohio 44107
(216) 899-0010 FAX: (216) 892-1404

Founded: 1914

Standards Staff: 3

Type of Organization Trade Association.
Standards Developer.

Standards Development Standards developer since 1914; four processed through ANSI.

Standards Designation B74.X.

Secretariats Accredited Standards Committee B7 on Use, Care, and Protection of Abrasive Wheels.
Accredited Standards Committee B74 on Abrasives.

Scope Manufacturers of wheels, stones, and other bonded abrasive products for grinding, sharpening, and polishing.

Standardization Activities Carried on by the Standards and the Safety Committees. Work of the Standards Committee deals with simplification matters. Initiated program for simplification of sizes of grinding wheels. Assists in the development of American National Standards covering the products of the industry. These include:

B74 - The development of identification and dimensional standards and standard test methods for bonded, coated, and loose abrasives in the natural and manufactured categories.

B7 - Specifications for safety in the use of bonded, coated, and loose abrasives, excluding natural sandstones; including safety requirements for abrasive products, abrasive machines and accessories, and requirements for the proper storage, handling, and mounting of abrasive products.

Also participates in international standardization work with the International Organization for Standardization (ISO) and the Federation of European Producers of Abrasives (FEPA).

Availability Distributed directly and through ANSI.

Formerly Grinding Wheel Manufacturers Association (1948)

Keywords abrasive wheels; grinding wheels; abrasives; abrasive grain; diamond abrasives; machinery;

GYPSTUM ASSOCIATION

Jerry A. Walker, Executive Director

810 First Street, NE.
Suite 510
Washington, DC 20002
(202) 289-5440

FAX: (202) 289-3707

Founded: 1930

Standards Staff: 3

**Type of
Organization**

Trade Association.
Standards Developer.

**Standards
Designation**

GA prefix.

Scope

Promotes the use of gypsum and gypsum products. Conducts technical research programs in fire, sound, and structural testing of gypsum products and related accessories. Contributes to building codes through education in the application and uses of gypsum products, and to the life-safety aspects of fire protection by providing advisory services in the interests of the industry and users of its products. Serves as the gypsum information center for all federal, state and local jurisdictions, as well as architects, specification writers and contractors.

**Standardization
Activities**

Maintains committees in the areas of Building Codes, Operations and Regulatory Affairs, Promotion, Safety, and Technical. Prepares and publishes GA-216, Recommended Specifications for the Application and Finishing of Gypsum Board and GA-600, Fire Resistance and Sound Control Design Manual, as referenced by the Commentary to the BOCA National Building Code, SBCCI Standard Building Code and the ICBO Uniform Building Code. Has over 65 years of leadership in the ASTM C-11 Standards Committee on Gypsum and Related Building Materials and Systems.

Availability

Distributed directly.

Keywords

gypsum; construction; materials; drywall; wallboard;

HACK AND BAND SAW MANUFACTURERS ASSOCIATION OF AMERICA

Charles M. Stockinger, Secretary/Treasurer

1300 Sumner Avenue
Cleveland, Ohio 44115
(216) 241-7333

FAX: (216) 241-0105

**Standardization
Activities**

Administers a National Education Council and Executive Committee which are active in standards activities. Standard rules and regulations are written for and apply to barber colleges, individual students and barbers, hairstylists, textbooks, and for judging contestants in contests. State regulations, however, supersede Hair International rules and regulations. Advocates use of a barber stylist standardized examination and educational program for the profession. Current projects include standardization of advanced educational methods in barber schools, as well as for shows and educational seminars.

Promotes its standards through mailings, personal contact, a monthly magazine, and barber shows.

Formerly

Associated Master Barbers and Beauticians of America

Availability

Distributed directly.

Keywords

barbers; hair; beauticians; education;

HAND TOOLS INSTITUTE

Richard C. Byrne, Executive Director

25 North Broadway
Tarrytown, New York 10591
(914) 332-0040 FAX: (914) 332-1541

Founded: 1935 Standards Staff: 1

**Type of
Organization**

Trade Association.
Standards Developer.

**Standards
Development**

65 members participate in standards development.
25 active standards.
Processed through ANSI.

**Standards
Designation**

ANSI B107.x.

Scope

Promotes and furthers the interests of its members relative to manufacturing, safety, standardization, international trade, and government relations. Provides a broad spectrum of educational data of industry interest, such as statistical and marketing surveys. Educates the hand tool user on the safe and proper use of hand tools.

Standardization Activities Develops and advances standards dealing with performance, design and safety. Representatives serve on U.S. TAGs to ISO standards committee.

Availability Distributed directly and through ANSI.

Formerly Service Tools Institute

Keywords tools; industrial equipment; consumer products;

HARDWOOD PLYWOOD AND VENEER MANUFACTURERS ASSOCIATION

E.T. Bill Altman, President

1825 Michael Faraday Drive, Box 2789

Reston, Virginia 22090

(703) 435-2900

FAX: (703) 435-2537

Founded: 1921

Standards Staff: 4

Type of Organization Trade Association.
Standards Developer.

Certification HPVA has inspection, testing, and certifying programs for glue bond, structural, flamespread, and formaldehyde emissions.

Scope A North American trade association for hardwood plywood and veneer manufacturers and prefinishers of hardwood plywood. Functions on a national and international level. Publishes newsletters and educational material, holds conferences; conducts surveys; and develops statistical reports on shipments of plywood and industry products. Promotes the sale and use of hardwood plywood.

Standardization Activities Publishes the American National Standard for Laminated Hardwood Flooring, ANSI/HPMA LEF 1987; American National Standards for Hardwood and Decorative Plywood, ANSI/HPMA HP-1-1994, H-P-SG-86, Structural Design Guide for Hardwood Plywood; and a voluntary standard for sliced decorative wood face veneer, industry standard DFV-1 1988. Cooperates with all government agencies to write federal and military specifications which affect hardwood plywood, veneer, and flooring. Participates on various ASTM committees.

Monitors U.S. model building codes with reference to hardwood plywood products.

Availability Distributed directly.

Formerly Hardwood Plywood Manufacturers Association (1993)
Hardwood Plywood Institute (1964)

Keywords hardwood plywood; veneer; paneling; flooring; construction;
building; wood products;

HEALTH INDUSTRY BUSINESS COMMUNICATIONS COUNCIL

Robert Hankin, PhD, President

5110 N. 40th Street
Suite 250
Phoenix, Arizona 85018
(602) 381-1091 FAX: (602) 381-1093
e-mail: info@hibcc.org
WWW: <http://www.hibcc.org/>

Founded: 1983

Standards Staff: 20

**Type of
Organization**

Trade Association.
Standards Developer.

**Standards
Development**

The Health Industry Business Communications Council (HIBCC) is an industry-sponsored nonprofit council, which was organized by major health care associations in 1983. The HIBCC Board of Directors, which oversees HIBCC operations and sets policy, is composed of individuals appointed from the ranks of Member Organizations. These now include: The American Hospital Association, American Medical Association, American Society for Automation in Pharmacy, Department of Defense, Health Industry Distributors Association, Health Industry Group Purchasing Association, Health Industry Manufacturers Association, Health Information and Management Systems Society, National Wholesale Druggists Association and Pharmaceutical Manufacturers Association.

HIBCC supports numerous technical committees composed of individuals representing all segments of the industry who meet regularly to develop and maintain the various HIBCC standards. It is through this continuous review and broad industry participation that HIBCC standards meet the industry's needs by taking advantage of the latest communications technologies.

HIBCC produces two bar code standards:
HIBC Supplier Labeling Standard, and
HIBC Provider Applications Standard.

Four EDI Manuals cover specific business functions:
Insurance,
Finance,
Contract Administration, and
Materials Management.

Draft standards are available from HIBCC.

**Standards
Designation**

Published documents are designated with HIBCC acronym.

Scope

Facilitator of electronic communications through development of appropriate standards for information exchange among all health care trading partners.

**Standardization
Activities**

Standardized manufacturer, customer, and product identification codes, including the Labeler Identification Code (LIC), Health Industry Number (HIN), and Universal Product Number (UPN); computerized EDI protocols in ANSI X12 approved message formats; and participation in national and international standards organizations working to further enhance electronic communications standards.

HIBCC received ANSI Accreditation, Organizational Method in July, 1995.

Availability

Bar codes; Standards, Universal Product Number (UPN), Labeler Identification Code (LIC), Database and Health Industry Number (HIN) Systems obtained through HIBCC; HIBCC EDI Usage Convention Manuals obtained through Washington Publishing, c/o EDI Support Services Inc., PO Box 203, Chardon OH 44024.

Keywords

EDI; electronic commerce; bar coding; Labeler Identification Code (LIC); Health Industry Number (HIN); universal identification number; Universal Product Number (UPN);

HEALTH INDUSTRY MANUFACTURERS ASSOCIATION

James Benson, Vice President, Science and Technology

1200 G Street NW
Suite 400
Washington, DC 20005
(202) 783-8700

FAX: (202) 783-8750

Founded: 1975

**Type of
Organization**

Trade Association.
Works through other organizations to develop standards.

Secretariats

U.S. Technical Advisory Groups for IEC/TC 62 and TC 62A.

Scope 330 manufacturers of medical devices and in vitro diagnostics. Focuses on legislative and regulatory international and health policy issues affecting the industry.

Standardization Activities Works through other organizations to ensure that member views are represented on policy issues related to voluntary and regulatory standards. Cooperates with AAMI, ASTM, NCCLS, ANSI, and other organizations.

Keywords health; medical equipment; diagnostic products;

HEALTH LEVEL SEVEN

Mark McDougall, Executive Director

3300 Washtenaw Avenue
 Suite 227
 Ann Arbor, Michigan 48104-4250
 (313) 677-7777 FAX: 313) 677-6622
 e-mail: hq@hl7.win.net

Founded: 1987 Standards Staff: 4

Type of Organization Professional and Trade Association.
 Standards Developer.

+Standards Development ANSI Accredited Standards Developing Organization
 First standard (Version 1.0) published October 1987.
 Version 2.2, published in 1994 has been submitted to
 ANSI for designation as an American National Standard. HL7 has
 1,570 members involved in the standards development process.

Standards Designation HL7 Standard, Version 2.2.

Government Adoption HL7 standards are being used by the Department of
 Veterans Affairs, Health Care Financing Administration, and the
 Center for Disease Control.

Certification No certification, qualification or accreditation programs.

Scope Health Level Seven (HL7) develops standards for the electronic exchange of clinical, financial and administrative information among independent health care oriented computer systems; e.g., hospital information systems, clinical laboratory systems, enterprise systems and pharmacy systems. HL7's 1500 members represent hospitals, computer vendors and consultants. The HL7 standard is supported by most information system vendors and used in the majority of large U.S. hospitals today. It is also used internationally in such countries as Australia, Austria, Belgium, Canada,

Germany, Holland, Israel, Japan, New Zealand and the United Kingdom.

**Standardization
Activities**

Each year HL7 convenes three Working Group meetings that usually draw between 250-300 people per meeting. HL7 has seven Technical Committees and five Special Interest Groups that are responsible for defining the HL7 standards. The current HL7 standard defines transactions for transmitting data about patient registration, admission, discharge and transfers, insurance, charges and payors, orders and results for laboratory tests, image studies, nursing and physician observations, diet orders, pharmacy orders, supply orders, and master files. HL7 is currently developing transactions for exchanging information about appointment scheduling, problem lists, clinical trial enrollments, patient permissions, voice dictations, advanced directives, and physiologic signals. Task forces in HL7 are also busy developing prototypes transactions with new state-of-the-art technologies.

Availability

Distributed directly. Also, HL7 has pioneered distribution of its minutes and standard drafts at no cost through Internet FTP servers at dumccss.mc.duke.edu and supports a discussion group on the HL7@Virginia.edu list server.

Keywords

EDI; healthcare standards; informatics; interface; connectivity;

HEALTH PHYSICS SOCIETY

Richard J. Burk, Executive Secretary

1313 Dolley Madison Blvd.
Suite 402
McLean, Virginia 22101
(703) 790-1745 FAX: (703) 790-2672
e-mail: hpsburkmgmt@aol.com

Founded: 1956

Standards Staff: 3

**Type of
Organization**

Professional Society.
Standards Developer.

**Standards
Development**

Standards developer since 1956.
100 members participate in standards activities.
17 active standards.
10 in development stage.
All processed through ANSI.

Government Adoption Several HPS/N13 standards have been adopted by government agencies, such as the NRC.

Secretariats ANSI N13 Committee on Radiation Protection.
ANSI N43 Committee.

Scope Encourages the development of scientific knowledge and practical means for the protection of man and his environment from the harmful effects of radiation, while encouraging its optimum utilization for the benefit of mankind.

Standardization Activities Standards development directed toward the area of radiation protection including radiation monitoring, air sampling, personnel dosimetry, bioassay, environmental surveillance, and radiation emergency response. Standards are widely used by nuclear facilities, regulatory agencies, research and academic institutions, and medical facilities, which participate in their development.

Availability Draft standards distributed directly. Published standards distributed through ANSI.

Keywords dosimetry; radiation; nuclear energy; public health;

HEAT EXCHANGE INSTITUTE

John H. Addington, Secretary/Treasurer

1300 Sumner
Cleveland, Ohio 44115
(216) 241-7333

FAX: (216) 241-0105

Founded: 1933

Standards Staff: 3

Type of Organization

Trade Association.
Standards Developer.

Scope

The HEI is a nonprofit trade association committed to the technical advancement, promotion, and understanding of a broad range of utility and industrial-scale heat exchanger and vacuum apparatus. The Institute concentrates its efforts on the manufacturing and engineering aspects of steam surface condensers, closed feedwater heaters, power plant heat exchangers, liquid ring vacuum pumps, and steam jet ejectors, and deaerators.

Standardization Activities Develops standards concerning steam surface condensers, closed feedwater heaters, power plant heat exchangers, liquid ring vacuum pumps, and steam jet ejectors, and deaerators.

Keywords condensers; feedwater heaters; heat exchangers; vacuum pumps; steam jet ejectors; energy; industrial equipment; deaerators;

HELICOPTER ASSOCIATION INTERNATIONAL

Frank L. Jensen, Jr., President

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Alexandria, Virginia 22314-2818
(703) 683-4646 FAX: (703) 683-4745
e-mail: hai@rotor.com

Founded: 1948

Type of Organization Trade Association.
Works through other organizations to develop standards.

Representation Federal Aviation Administration, National Transportation Safety Board, National Fire Protection Association, and other national and international organizations developing standards for safety, test, performance, and environment affecting helicopter design or operation.

Certification Participates in development and coordination of certifications promulgated by federal, state, and international authorities.

Scope Nearly 1300 member companies, including 591 civil helicopter operators in 64 countries. Its 19 committees represent the helicopter industry in federal and state regulatory matters; and provide civil helicopter operator user input in the areas of federal aviation regulation, heliport development, environmental, and related subjects. Develops, promotes, and conducts helicopter safety and management education programs worldwide. Works with the National Transportation Safety Board and the Federal Aviation Administration to identify accident cause factors and trends relating to accident prevention.

Standardization Activities Develops, coordinates, and reviews recommended federal, state, and local standards and criteria for heliport and helicopter operations; assists community planners and heliport developers in environmental assessment and analysis of proposed heliports in communities and city business districts; participates in the de

velopment of National Fire Protection Association codes involving vertiports/heliport/helicopter fire protection and crash/rescue services. Develops, coordinates, and recommends to federal, state, and local authorities standards and criteria for the establishment of civil public-use heliports, hospital heliports, off-shore helidecks, private and personal use heliports.

Formerly Helicopter Association of American (HAA) 1981
Keywords helicopter; heliport; aviation; safety; transportation; emergency medical service;

HOME AUTOMATION ASSOCIATION

Charles McGrath, Executive Director

808 17th Street, NW, Suite 200
Washington, DC 20006-3910
(202) 223-9669 FAX: (202) 223-9569
e-mail: 75250.1274@compuserve.com

Founded: 1988 Standards Staff: 1

Type of Organization Trade Association.
Works through other organizations to develop standards.

Representation Represents manufacturers, utilities, dealers, installers, engineers, home builders, distributors, consultants.

Scope Members meet to discuss issues that effect the compatibility of several industries (HVAC, security, lighting, audio video, appliances, etc.,) and to develop interoperable products and integrated systems.

Standardization Activities HAA's Standards and Codes Compatibility Task Force is addressing the need for standards for power line media, packet format, languages and other system elements, as well as features which assure compliance with the National Electrical Code and related government requirements.

Keywords communications; consumer products; information processing; computers; electrical; electronic; energy; HVAC; security; environment; heating;

HOME VENTILATING INSTITUTE -

Division of Air Movement and Control Association

D.O. Rammien, Executive Director

**30 West University Drive
Arlington Heights, Illinois 60004
(708) 394-0150 FAX: (708) 253-0088
e-mail: AMCA@delphi.com**

Founded: 1955 Standards Staff: 2

Type of Organization Trade Association.
Standards Developer: Primarily works through other organizations to develop standards.

Representation AMCA, ASHRAE, NFPA, and UL.
At any one time, HVI may have up to thirty representatives participating in standards development.

Standards Development HVI started developing standards in 1959. Today it maintains one independent standard and promotes usage of recognized consensus standards.

Standards Designation HVI (HVI 916, Rev. 4/95).

Government Adoption Standards and procedures are referenced by the Department of Housing and Urban Development and the Department of Energy. The State of Washington cites the HVI Label as proof of acceptability.

Certification Conducts a program for certifying air flow performance and sound emission for residential air exhaust or inlet devices, and for certifying air flow and energy efficiency performance for residential heat recovery ventilators. All ratings are based on independent testing at Texas A & M University. ORTECH International, or another approved independent testing laboratory. Also conducts a program for certifying net free area of static ventilating devices.

Scope A voluntary organization for manufacturer self-regulation of residential exhaust, inlet, heat recovery, and static/passive ventilating devices. The organization is made up of manufacturers located in the United States and Canada. Participants in the organization produce a major portion of industry products marketed in North America.

Standardization Activities Writes recommended practices for manufacturers.
Develops certified ratings for air flow, sound emission, and energy efficiency that are used to satisfy requirements set for

kitchens, bathrooms, bedrooms, and other rooms in houses. HVI is recognized as a quality control or testing agency by the model code organizations. The purpose of the activities is to promote the well-being of the industry while protecting the consumer from exaggerated performance claims.

Availability Distributed directly.

Formerly Home Ventilating Institute

Keywords ventilating; acoustics; sound; heat recovery; energy recovery;

HUMAN FACTORS SOCIETY

Lynn Strother, Executive Director

P.O. Box 1369
Santa Monica, California 90406
(310) 394-2811 FAX: (310) 394-2410

Founded: 1957 Standards Staff: 1

Type of Organization Professional Society.
Standards Developer.

Standards Development 100 members active in standards activities. One standard published, ANSI/HFS 100, Human Factors Engineering of Visual Display Terminal Workstations.

Secretariats U.S. TAG to ISO 159.

Scope An interdisciplinary organization of professional people involved in the human factors field. Promotes the discovery, exchange, and application of knowledge concerning the relationship of people to their machines and their environment. Advocates the consideration of operators, maintainers, and users in the design of equipment and facilities. Supports the development of working and living environments that are comfortable and safe.

Standardization Activities Has developed a standard on visual display terminal (VDT) workplace design through ANSI Safety and Health Management Board.

Availability Sold directly and through ANSI.

Keywords human factors; ergonomics; safety; workplace design; office products; public health;

HYDRAULIC INSTITUTE

Allen P. Wherry, Secretary Treasurer

9 Sylvan Way
Paraspany, New Jersey 07054
(201) 267-9700 FAX: (201) 267-9055

Founded: 1917 Standards Staff: 3

**Type of
Organization**

Trade Association.
Standards Developer.

**Standards
Development**

Standards developer since 1917.
70 member companies participating in standards activities.

Certification

No certification, qualification, or accreditation programs.

Secretariats

American National Standards Committee B215, Pumps; U.S. TAG for ISO/TC 115.

Scope

A nonprofit, national trade association that represents U.S. companies engaged in the manufacture of pumps; and is dedicated to excellence in engineering, manufacturing, and application of pumping equipment.

**Standardization
Activities**

Publishes standards in the public interest, designed to enhance understanding between the manufacturer and the purchaser, and to assist the purchaser in selecting and obtaining the proper product for his particular need. Cooperates with other organizations, including the American National Standards Institute, the American Society of Mechanical Engineers, the National Electrical Manufacturers Association, and the National Fire Protection Association, in writing standards subject to constant review and revision when necessary. The standards program is based on work performed by Technical Committees specializing in particular types of pumps. The present standards edition is an extensive rework of previous editions with four principal sections: centrifugal, vertical, reciprocating, and rotary pumps. Provides information on: classes, types, and nomenclature; ratings; test codes; applications; and installation, operation, and maintenance; and measurement of airborne sound from pumping equipment and construction materials. Also publishes the Engineering Data Book.

Availability

Sold directly.

Formerly Hydraulic Society
Keywords pumps; fluids; industrial equipment;

HYDRONICS INSTITUTE

John I. Woodworth, Technical Director

35 Russo Place
PO Box 218
Berkeley Heights, New Jersey 07922
(908) 464-8200 FAX: (908) 464-7818
Founded: 1915 Standards Staff: 3

Type of Organization

Trade Association.
Standards Developer.

Standards Development

Standards developer since 1940.

Government Adoption

Equipment performance ratings are specified in Standard Specifications of several federal and state agencies.

Certification

Equipment rating resulting from tests are certified by the Ratings Committee, and are published in books for

general distribution to specifiers. Under new procedures established by DOE and FTC, the Institute tests and certifies the performance of residential boilers as meeting the standards of the regulations. Such certification is provided to municipalities and to users.

Scope

Manufacturers of hydronic (hot water and steam) heating and cooling equipment. Compiles statistics; sponsors educational programs. Assists government agencies, professional societies, and other trade associations in developing standards for residential and commercial buildings, hot water heating, steam, piping and system design criteria, residential cooling, panel heating, snow melting.

Standardization Activities

Sponsors and funds research programs, the results of which form the basis for developing standards for testing heating boilers, comfort radiation equipment, immersion water heaters, and for establishing their ratings and installation criteria. Performs certification tests as requested for both members and nonmembers. Performs re-tests on products from manufacturers' stock, which are chosen at random.

Provides guidance to government agencies at no cost in developing mechanical specifications, energy conservation standards, performance standards.

Formerly Institute of Boiler & Radiator Manufacturers (1970)
Steel Boiler Institute (1963)
Better Heating-Cooling Council (1970)

Keywords heating; cooling; boilers; hot water; snow melting; panel heating;
building; industrial equipment;

ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA

Rita M. Harrold, Director, Education and Technical Development

120 Wall Street, Floor 17
New York, New York 10004-5001
(212) 248-5000 FAX: (212) 248-5017

Founded: 1906 Standards Staff: 2

**Type of
Organization**

Technical Society.
Standards Developer.

**Standards
Development**

Standards developer since 1907.
350 members participating in standards activities.
8 active standards.
All processed through ANSI.

**Government
Adoption**

Portions of several standards have been adopted by
OSHA and by the states through EPACT.

Scope

A technical society devoted to advancing the art, science, and
practice of illumination by investigation, evaluation, and dissem-
ination of knowledge to consumers, producers, and general interest
groups through educational, literary, and scientific means.

**Standardization
Activities**

Maintains 106 technical committees and subcommittees
that study and report to its Board of Directors on lighting of all
areas, such as airports and aircraft, industrial facilities,
institutions, offices, public conveyances, residences, schools,
service stations, parking areas, sports and recreational areas,
stores, streets and highways, theaters and television studios.
Other subjects include light sources, maintenance, light control
and luminaire design, nomenclature, quality and quantity of light,
testing procedures for illumination characteristics, photobiology
and light power limits for energy conservation. Standards define
nomenclature and lighting criteria for offices, schools, industry,
roadways, tunnels, interior living spaces, and casinos. Two joint
standards are being written with ASHRAE on energy conservation to
be submitted for ANSI public review.

Availability Distributed directly and through ANSI.

Keywords lighting design; illumination; lighting; buildings design;

INCRCAPE TESTING SERVICES/ETL TESTING LABORATORIES

Eric Birch, President

3933 US Route 11
Cortland, New York 13045
(607) 753-6711 FAX: (607) 756-9891

Founded: 1896

Type of Organization Product Test and Certification Laboratory.
Standards Developer.

Certification ETL's primary activity is product certification. It conducts safety and performance testing on a wide range of consumer products. These tests are conducted according to industry standards which are national and international in scope. Directories are published periodically showing products such as HVAC equipment, gas appliances, building materials, fluorescent ballasts, refrigerator/freezers and carpeting.

ETL's certification programs are nationally recognized and used by agencies, such as General Services Administration (GSA), and trade associations, such as GAMA, ARI, SEI, AHAM and BHMA. ETL is also an independent third party testing laboratory providing safety listing and labeling services, by testing to nationally recognized standards such as UL, ANSI, ASTM and IEC. ETL's listing, labeling and follow up program is accepted in the United States, Canada, military branches, and the building code agencies such as SBCCI, ICBO and BOCA. ETL has also been designated as a Nationally Recognized Testing Laboratory (NRTL) by the Occupational Safety and Health Administration (OSHA).

Scope An independent third party testing, inspection, certification and safety labeling agency. ETL presently operates within the following disciplines: HVAC, Fire and Flammability, Refrigeration, Design Services, Electrical Performance, Electrical Safety, Acoustical, Mechanical and Photometric.

Formerly Absorbed the National Association for Indiana Limestone.
Keywords limestone; materials; construction;

INDUSTRIAL DIAMOND ASSOCIATION OF AMERICA

Fred A. Gray, Executive Director

P O Box 1070
Skyland, North Carolina 28776
(704) 684-1986 FAX: (704) 684-7372
e-mail: 76113.1364@CompuServe.Com

Founded: 1946 Standards Staff: 2

Type of Organization Trade Association.
Standards Developer.

Scope The Industrial Diamond Association of America's activity has evolved from the natural diamond areas to superabrasives and, most recently, to ultrahard materials. Members include materials suppliers, tool manufacturers, component producers and educational/research affiliates. Geographical concentration in the United States, Canada and Mexico.

Standardization Activities Develops standards for industrial diamonds. With the American Society of Manufacturing Engineers, it cosponsors American National Standards Institute (ANSI) Project B-67, Industrial Diamonds and Accessories for Their Use. Through this project, an American National Standard for Diamond Dressing Tools has been developed and approved. With the Grinding Wheel Institute, the association also cosponsored ANSI Project B-74.1, Identification Code for Diamond Wheel Shapes. Other American National Standards activities in which the association has participated include: B-74.16, Checking the Size of Diamond Abrasive Grain, and B-74.17, Test for Bulk Density of Diamond Abrasive Grain.

In cooperation with the National Institute of Standards and Technology, the association developed a separate Commercial Standard for grading of diamond powder, known as CS261-63, Grading of Diamond Powder in Sub-Sieve Sizes.

Availability Distributed directly.

Keywords diamonds; manufacturing; materials; ultrahard materials; superabrasives;

INDUSTRIAL FABRICS ASSOCIATION INTERNATIONAL

Steve Warner, Operations Director

345 Cedar Building
Suite 800
St. Paul, Minnesota 55101-1088
(612) 222-2508 FAX: (612) 222-8215
Founded: 1912 Standards Staff: 3

**Type of
Organization**

Trade Association.
Standards Developer.

**Standards
Development**

IFAI members actively participate on committees of
ASTM, AATCC, BOCA, EPA, FHWA, GRI, ISO, ICBO, NFPA, SAE and USCG.

Scope

A trade association with 11 product-related divisions, ranging
from the Safety & Protective Products Division to the Truck Cover
& Tarp Division. IFAI also has two country sectors: IFAI-Canada
and IFAI-Japan. Over 2100 member firms represent all levels of
the industrial fabrics industry including fiber producers, weavers,
coaters, finishers and laminators.

**Standardization
Activities**

IFAI promulgates a voluntary industry standard (and
model flammability code) for materials used in camping
tentage, designated as CPAI-84. CPAI-84, which has been adopted
by several states, is being revised and updated. Another
voluntary industry standard that has been adopted by several
states is CPAI-75, a rate-of-burn standard for sleeping bags, to
be updated in 1996. IFAI has also developed CPAI-63, a quality
assurance standard for cotton tarpaulins; and CPAI-CLI, standard
test methods for woven coated and/or laminated polyolefins.

The IFAI Transportation Division, acting as the SAE
Committee on Textiles and Flexible Plastics,
establishes standard test methods for automotive interior trim and
textiles for North American automotive manufacturers.

The IFAI Awning Division is establishing a set of
standard test methods for assessing the comparative
performance of awning and canopy fabrics.

IFAI's American Casual Fabric Furniture Association has
established a set of standard test methods for
assessing the comparative performance of casual (outdoor) furni-
ture fabrics.

The United States Industrial Fabrics Institute (USIFI) is assisting the Department of Defense's Defense Personnel Support Center in their standards modernization effort.

The IFAI Geomembrane Division is working with EPA to develop voluntary guidelines and standards associated with nonhazardous industrial waste disposal.

Availability Sold directly.

Formerly Canvas Products Association International (CPAI)

Keywords textiles; fabrics; tents; tarpaulins; fabric structures; flammability; synthetic lining/cover containment;

INDUSTRIAL FASTENERS INSTITUTE

C.J. Wilson, Director of Engineering

1105 East Ohio Building
Cleveland, Ohio 44114
(216) 241-1482

FAX: (216) 241-5901

Founded: 1931

Standards Staff: 6

Type of Organization

Trade Association.
Standards Developer.

Scope

An association of North American manufacturers of bolts, nuts, screws, rivets, and all types of special industrial fasteners. Advances fastener technology and application engineering.

Standardization Activities

Works cooperatively with national and international technical organizations, developing fastener standards and technical practices assuring users of maximum engineering efficiency and reliability, at minimum cost of assembly. There are more than 500 000 standard and 3 000 000 special sizes, kinds, and shapes of fasteners and engineering components.

Publishes the Fastener Standards Book, a major reference book for users of mechanical fasteners. This is a collection of pertinent standards, which documents all types of general purpose commercial industrial fasteners. The standards book is used by design engineers and production managers in all industries. The Sixth Edition was published in June of 1988.

In 1996, IFI will publish the third edition of Metric Fastener Standards which presents the internationally agreed upon system of engineering standards for commercial and industrial metric fasteners.

Availability Distributed directly and through IHS.

Formerly American Institute of Bolt, Nut, and Rivet Manufacturers

Keywords fasteners; metric; manufacturing;

INDUSTRIAL PERFORATORS ASSOCIATION

Dolores Morris, Secretary-Treasurer

710 North Plankinton
Suite 622
Milwaukee, Wisconsin 53203
(414) 271-2263 FAX: (414) 271-5154
Founded: 1961

Type of Organization Trade Association.
Works through other organizations to develop standards.

Representation Active in standardization of perforated materials through pertinent ASTM and ISO Committees.

Scope A national trade association of manufacturers engaged in the production of perforated materials. Develops programs and activities to assist members achieve managerial expertise in marketing, manufacturing and other areas of company operations.

Standardization Activities Originally developed standards for products used in the mining and aggregate industries. This led to the publication of a series of standards widely used in these industries.

Finalized a series of standards for Industrial Perforated Metal, which has been adopted and published by ASTM Committee E 29.

Active in ISO/TC 24 which is involved with setting metric standards for perforated materials on a world wide basis. Also works closely with EUROPERF, which is the Trade Association of European Perforators.

Keywords perforators; screen; punched-plate; industrial equipment;

INDUSTRIAL RISK INSURERS

John A. Davenport, AVP and Director-Research

85 Woodland Street
P O Box 5010
Hartford, Connecticut 06102-5010
(860) 520-7362 FAX: (860) 549-5780

Founded: 1890 Standards Staff: 9

**Type of
Organization**

Industrial property insurance.

**Standards
Development**

Develops loss prevention guidelines and recommended practices for use by those insured and loss prevention staff. These are published as the IRInformation series; approximately 275 guideline documents in three volumes.

Certification

No certification, qualification or accreditation programs.

Scope

These documents serve as the basis for Industrial Risk Insurers' loss prevention and control recommendations.

Availability

Available on a subscription basis through the Librarian-Industrial Risk Insurers.

Formerly

Factory Insurance Association (1975)
Oil Insurance Association (1975)

Keywords

loss prevention; loss control; fire protection; boilers; machinery; highly protected risks;

INDUSTRIAL SAFETY EQUIPMENT ASSOCIATION

Daniel K. Shipp, Jr., President

1901 North Moore Street
Suite 808
Arlington, Virginia 22209
(703) 525-1695 FAX: (703) 528-2148
Founded: 1934 Standards Staff: 3

**Type of
Organization**

Trade Association.
Works through other organizations to develop standards.

Representation

75 members.
Representation on 20 ANSI Committees.
Work with ISO and ASTM Committees.

Certification The membership of ISEA established an independent organization, the Safety Equipment Institute (SEI), in 1981. SEI administers a nongovernmental program to test and certify industrial safety products. SEI certification is voluntary, requiring annual product testing and quality assurance audits at manufacturing sites. Current programs include industrial helmets, eye and face protective products and emergency eyewash and shower equipment. Certification of respirators is performed by NIOSH and MSHA.

Secretariats ANSI Z308.1 and Z358.1.

Standards Designation ANSI/ISEA 101.
ANSI/ISEA 102.

Scope A nonprofit organization of manufacturers of personal protective products for industrial environments. Dedicated to the safety of workers who rely on protective equipment and to the welfare of the safety equipment industry. Membership is international.

Standardization Activities Works for the development of standards which assure the high performance of safety products. Provides manufacturers' input to standards development through official representation to such organizations as the American National Standards Institute, National Fire Protection Association, National Society for the Prevention of Blindness, and the American Society for Testing and Materials. Product categories involved in standard activities include: emergency eyewash and safety shower, eye and face protection, fall protection, head protection, hearing protection, industrial first aid, industrial safety and health instruments, industrial warning devices, machinery guards, respiratory protection, safety cans, and safety wearing apparel.

Formerly Industrial Safety Equipment Manufacturers Association of the United States of America (1936)

Keywords safety; personal protection; industrial equipment;

INDUSTRIAL TRUCK ASSOCIATION

William J. Montwieler, Executive Director

1750 K Street, NW.
Suite 210
Washington, DC 20006
(202) 296-9880

FAX: (202) 296-9884

Founded: 1952

Standards Staff: 2

Type of Organization Trade Association.
Standards Developer.

Scope Manufacturers of powered industrial trucks, tractors, and their major components.

Standardization Activities Through its General Engineering Committee, develops a Manual of Recommended Practices, which is used as source material to advance safety and efficiency in the design, manufacturing, and use of industrial trucks. Cooperates with the American National Standards Institute, ASME Standards Committees, and ISO, as well as with the National Fire Protection Association in matters affecting powered industrial trucks.

Availability Sold directly.

Formerly Electric Industrial Truck Association (1951)

Keywords industrial trucks; industrial equipment; tractors; fork lift;

INFORMATION TECHNOLOGY INDUSTRY COUNCIL

Rhett Dawson, President

1250 Eye Street, NW
Suite 200
Washington, DC 20005
(202) 737-8888 FAX: (202) 638-4922
WWW: <http://www.x3.org>
<http://www.itic.org>
<http://jtc1tag.org>

Founded: 1916 Standards Staff: 10

Type of Organization Trade Association.
Standards Developer.

Standards Development Over 1200 organizations participate in the development of ASC X3 domestic standards and JTC 1 international standards. 220 ANSI X3 standards. 76 ANSI/ISO standards. More than 1200 ongoing projects.

Secretariat Accredited Standards Committee X3, Information Processing Systems. Administrator for U.S. TAG for ISO/JTC 1, Information Technology, and ISO TC 211 on Geomatics and Geographical.

Scope

As a not-for-profit organization, ITI provides its association members a forum for industry consultation and united action; a means for communicating facts and views of the industry to the government, other industries, and the general public. The standards development portion of the organization is open to all materially and directly affected organizations.

Standardization Activities

The staff assigned to the Trade, Technology and Standards Policy area cover policy issues affecting the information technology industry's products in the areas of standards, testing, certification, quality assurance, and related legislation and regulations in all countries where such goods and services are produced and/or sold. Through predominately ITI member committees, issues in such areas as the environment, ergonomics, health and safety, hardware, software, and systems functionality and performance characteristics are identified and analyzed with subsequent ITI positions developed. Currently active committees include:

The Ergonomics Committee which deals with issues such as existing and proposed national and international standards and regulatory activities covering ergonomics/human factors related to the IT products.

Environment and Safety Management Committee (ESMC) and its sub-groups which are concerned themselves with environment and safety standards, testing, certification, materials, life cycle management and quality assurance regulations - both domestically and internationally.

ESC-1, Product Life Cycle Environmental Management, which addresses standards, regulatory activities and other proposals related to the technical aspects of product life cycle management as they pertain to the IT industry.

ESC-2, Product Safety, which addresses electrical safety standards, testing and certification issues through Underwriters Laboratories in the United States, Canadian Standards Association in Canada, comparable national organizations in other countries of the world, and the International Electrotechnical Commission (IEC).

ESC-3, Power Interface, which addresses issues related to power supplied by the electric utilities and power supplies used in IT products.

ESC-5, Electromagnetic Interference, which deals with standards and regulations on the limits of electromagnetic emissions from industry products through the Federal Communications Commission and comparable agencies in the other countries where ITI members do business, as well as the International Special Committee on Radio Interference (CISPR).

ESC-6, Product Acoustics, which works on standards and regulations worldwide covering acoustic noise emitted from IT products.

ESC-9, Installation Codes and Requirements, which is concerned with requirements of the National Electrical Code in the United States, the Canadian Electrical Code in Canada, and comparable codes in other countries that apply to IT products.

Plastics Task Group which works with flammability and impact resistance requirements for plastics, as well as plastics recycling requirements, as they apply to IT products.

Information Technology and Telecommunications Equipment Task Group (ITTE TG) which focuses on the worldwide certification requirements for telecommunications and information processing equipment.

ITI/ITAC Joint Standards Committee (composed of ITI and its Canadian counterpart, the Information Technology Association of Canada), which works to harmonize standards and regulations of the United States and Canada that apply to IT products.

ITI/UL Policy Committee (comprised of UL top executives, ITI management and relevant committee officers) which meets annually to discuss electrical safety policy matters of importance to the IT industry.

ITI/CSA/ITAC Policy Committee (composed of executives from ITI, ITAC and the Canadian Standards Association) which meets annually to discuss electrical safety policy matters and to work on harmonization of North American safety standards related to the IT industry.

Availability

Distributed through ANSI and ISO.

Formerly

Computer and Business Equipment Manufacturers Association (1995)

Keywords

automation; computers; data processing; information processing; information systems; office machines; data communications; information technology; programming languages; storage media; vocabularies;

INSTITUTE FOR INTERCONNECTING AND PACKAGING ELECTRONIC CIRCUITS

Thomas J. Dammrich, President

2215 Sanders Road
Suite 250
Northbrook, Illinois 60062
(708) 677-2850 FAX: (708) 677-9570
e-mail: thomasdammrich@ipc.org
WWW: <http://www.ipc.org/>

Founded: 1957 Standards Staff: 7

**Type of
Organization**

Trade Association.
Standards Developer.

**Standards
Development**

Standards developer since 1957.
2000 member companies participating in standards activities.
75 active standards.
Standards and specifications processed through ANSI.
Draft standards available to IPC representatives and applicable organizations.

**Standards
Designation**

IPC.

**Government
Adoption**

The Department of Defense has adopted 17 standards, with others pending.

Certification

Qualification programs being developed.

Scope

An international trade association of 1800 member companies representing manufacturers and users of electronic interconnection devices. Also includes key suppliers to the industry and representatives from over 60 government agencies.

**Standardization
Activities**

Develops standards which are used worldwide by producers and users of rigid and flexible printed boards, flat cable, hybrid circuits, and various discrete wiring techniques.

Works closely with many organizations including UL, DOD, ANSI, EIA, and JEDEC. Members actively serve on a wide range of military and industry standards committees including the IEC, ANSI, EIA, ISHM, IEEE, and UL. Technical input solicited from and supplied by the 1800 member companies of the IPC, and key government agencies and industry organizations.

IPC standards are used throughout the electronics industry in the interconnecting and packaging of electronic circuits. They cover dimensions and tolerances, acceptability levels and definitions and terms. Widely used IPC standards include a compilation of

visual quality standards; design and performance documents for soldering single, two sided and multi-layered printed wiring boards; solderability standards and surface mount documents. In addition, conducts round robin testing programs for state-of-the-art product performance, including testing of multilayer boards, evaluation of plated through-holes, fine lines, and laminates and alternatives to CFCs.

Availability Distributed directly and through ANSI, Global, and IHS.

Formerly Institute of Printed Circuits (1977)

Keywords printed circuits; printed boards; printed wiring boards; printed circuit boards; flat cable; electronics; electrical equipment; hybrids;

INSTITUTE OF CASTER MANUFACTURERS

Jack L. Lagershausen, Executive Secretary

115 South LaSalle Street #1400
Chicago, Illinois 60603

(312) 201-0101
Founded: 1933

FAX: (312) 201-0214
Standards Staff: 1

**Type of
Organization**

Trade Association.
Standards Developer.

**Standards
Development**

Standards developer since 1950.
Forty members participate in standards activities.
Industrial Caster Standard MH11.1 processed through ANSI.

**Standards
Designation**

ICM Guides.

Scope

A national trade association representing manufacturers of industrial casters and wheels. Maintains liaison with the Defense Supply Agency, DISC, Department of the Army, and GSA.

**Standardization
Activities**

Publishes "Guide to Understanding and Specifying Industrial Casters and Wheels," which includes standard information on casters and wheels (1995 edition).

Availability

Sold directly.

Formerly Caster and Floor Truck Manufacturers Association (1990)
Keywords casters; floor trucks; industrial equipment;

INSTITUTE OF CLEAN AIR COMPANIES

Jeffrey C. Smith, Executive Director

1707 L Street, NW.
Suite 570
Washington, DC 20036
(202) 457-0911 FAX: (202) 331-1388
e-mail: icac@tmn.com

Founded: 1960 Standards Staff: 2

Type of Organization Trade Association.
Standards Developer.

Scope Members are suppliers of stationary source air pollution control and monitoring systems, equipment, and services in North America. Works to promote the industry and to encourage improvement of technical and engineering standards.

Standards Development Develops technical standards, guidelines, and other publications which educate or otherwise help purchasers and users of air pollution control equipment, regulators, and the public.

Formerly Industrial Gas Cleaning Institute

Keywords air pollution control; emission monitoring;

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS

Andrew G. Salem, Managing Director of Standards

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Post Office Box 1331
Piscataway, New Jersey 08855-1331
(908) 562-3800 FAX: (908) 562-1571
e-mail: stds.info@ieee.org
WWW: <http://www.ieee.org/>

Founded: 1884 Standards Staff: 42

Type of Organization Professional Society.
Standards Developer.

Standards Development 30 000 members active in standards development. 680 standards; 530 standards projects underway. Many processed through ANSI. An ANSI accredited organization.

Standards Designation IEEE Std xx-year.

Government Adoption 30 IEEE standards have been adopted by the federal government.

Secretariats 16 American National Standards Committees (some as co-secretariat)

Scope A transnational professional society of 315 000 engineers and scientists in electrical engineering, electronics, and allied fields.

Standardization Activities The Standards Board has overall responsibility for standards development and approval, and the responsibility for participation in and cooperation with other organizations on standards issues. The Board currently has nine standing committees that provide assistance and make recommendations, offering expert advice concerning procedural and developmental matters, new opportunities, and future avenues to be explored.

IEEE develops and publishes standards on a variety of topics, including bio-medical engineering communications, computer and software engineering, electrical safety, and commercial and industrial power systems. All IEEE standards are prepared by dedicated expert volunteers acting in their own fields of interest; yet are approved by a widespread, strict consensus process. Proposed standards are examined by the review committee to ensure that a proper balance of interested parties exists, and that coordination and balloting procedures have been maintained.

Availability Distributed directly and through commercial distributors. Japanese Standard Association (JSA), Book Supplies Bureau, British Standards Institute (BSI), Korean Standard Association (KSA).

Formerly Formed by a merger in 1963 of the American Institute of Electrical Engineers and the Institute of Radio Engineers.

Keywords bio-medical engineering; communications; computers; electric power; local area networks (LANs); electrical safety; software quality assurance; software engineering;

INSTITUTE OF ENVIRONMENTAL SCIENCES

Janet A. Ehmann, Executive Director
940 East Northwest Highway
Mount Prospect, Illinois 60056
(708) 255-1561 FAX: (708) 255-1699

Founded: 1954

**Type of
Organization**

Professional Society.
Works through other organizations to develop standards.

Scope

Devoted to the development and promotion of recommended practices, standards, specifications, research, simulation techniques, testing techniques, contamination control techniques, and the development of design criteria for equipment operation. The Institute is a member of the International Committee of Contamination Control Societies (ICCCS). Recommended practices have been developed by its Contamination Control Division in several areas.

Secretariats

ISO Technical Committee 209, "Cleanrooms and Associated Controlled Environments."

**Standardization
Activities**

Considers and investigates matters related to contamination units and standards, as well as recommended practices, pertaining to, or applicable in, environmental engineering. Cooperates with other national technical organizations in matters regarding environmental standards, testing and engineering. Cosponsors meetings or group efforts with such organizations as American Society for Testing and Materials, American Institute of Aeronautics and Astronautics, Parenteral Drug Association, and the Department of Defense. Sponsors a representative to the International Electrotechnical Commission concerned with international standardization of environmental test methods.

Formerly

American Association for Contamination Control (1973)

Keywords

testing; contamination control; environment; quality assurance; clean rooms; minienvironments;

INSTITUTE OF INDUSTRIAL ENGINEERS

Woodrow Leak, Executive Director

25 Technology Park
Norcross, Georgia 30092
(404) 449-0460 FAX: (404) 263-8532
Founded: 1948 Standards Staff: 1

Type of Organization Professional Society.
Standards Developer.

Standards Development 50 volunteer members active in standards development.
Standards processed through ANSI; All are designated American National Standards.
Draft standards and revisions available for review by non-members.

Standards Designation ANSI Z94.

Secretariats American National Standards Committee Z94, Industrial Engineering Terminology.

Scope An international society devoted to productivity improvement through the application of industrial engineering techniques. Serves more than 40 000 members in 87 countries. Provides a unique cross-section of products and services including books, journals, magazines, films, seminars, conferences, and certification.

Standardization Activities Focuses on the terms and phrases used in the practice of industrial engineering. These terms and phrases are developed through 17 subcommittees that represent the various disciplines of industrial engineering.

Availability Distributed directly and through ANSI.

Formerly American Institute of Industrial Engineers

Keywords industrial engineering; productivity; manufacturing;

INSTITUTE OF INTERNAL AUDITORS

Susan B. Lione, Manager of Standards

249 Maitland Avenue
Altamonte Springs, Florida 32701-4201
(407) 830-7600 FAX: (407) 831-5171

Founded: 1941 Standards Staff: 2

Type of Organization Professional Association.
Standards Developer.

Standards Development	Standards for the Professional Practice of Internal Auditing were developed in 1978. The standards are monitored, updated, and adapted by the IIA's Internal Auditing Standards Board, an international volunteer committee consisting of 12-18 members. All substantial changes to the standards and their related guidelines are made through Statements of Internal Auditing Standards (SIASs), which are then codified into the appropriate sections of the standards. All SIASs are submitted to the membership for comment before approval.
Government Adoption	Adopted by 12 United States states and 13 other government bodies and translated into 20 languages.
Scope	The IIA is an international association dedicated to the continuing professional development of the individual internal auditor and the internal auditing profession. The IIA offers various programs and products to enhance the practice of internal auditing, including standards, certification, seminars, conferences, educational products, a bimonthly magazine, and research publications.
Certification	The IIA's certification program, established in 1973, provides the only internationally recognized certification for internal auditors - the Certified Internal Auditor designation.
Availability	Distributed directly.
Keywords	internal auditing; internal auditors; auditing; accounting;

INSTITUTE OF MAKERS OF EXPLOSIVES

J. Christopher Ronay, President

1120 19th Street NW.
 Suite 310
 Washington, DC 20036
 (202) 429-9280

FAX: (202) 293-2420

Founded: 1913

Standards Staff: 1

Type of Organization

Safety Association.
 Standards Developer.

Standards Development

Standards developer since 1913.

Standards Designation

IME prefix.

Standardization Activities Directed toward meeting requirements of industry related to safeguarding nuclear materials. Principal activities include serving as ANSI secretariat for N14 and N15. INMM standards are used extensively in Department of Energy and Department of Defense facilities, as well as by government contractors and NRC licensees. In addition, INMM standards are used world-wide by related organizations and commercial enterprises.

Keywords nuclear materials safeguards; nuclear materials waste management; nuclear material transportation; defense; energy; safety; environment;

INSTITUTE OF TRANSPORTATION ENGINEERS

Thomas W. Brahma, Executive Director

525 School Street SW
 Suite 410
 Washington, DC 20024-2729
 (202) 554-8050 FAX: (202) 863-5486

Founded: 1930 Standards Staff: 2

Type of Organization Scientific Society.
 Standards Developer.

Standards Development 300 members participate in standards development.
 27 active equipment standards and recommended practices.
 None processed through ANSI.
 Draft standards available for review.

Standards Designation ST - equipment standards.
 RP - recommended practices.

Government Adoption The Federal Highway Administration of Department of Transportation has adopted a number of ITE equipment standards as part of the U.S. Manual on Uniform Control Devices. Many state and local agencies have also adopted these standards.

Certification No certification, qualification, or accreditation programs.

Secretariats A major sponsor of National Committee on Uniform Traffic Control Devices.

Scope A professional society of those responsible for planning, designing, implementing, operating, and maintaining surface transportation systems of the world. Seven thousand members in 73 coun-

tries. Provides publications, educational programs, testimony, and other services to benefit the transportation profession and the general public.

Standardization Activities Develops equipment standards and recommended practices. Equipment standards for traffic control devices include signs, signals, and markings. Cooperates with all interested parties in developing standards.

Availability Distributed directly.

Formerly Institute of Traffic Engineers (1976)

Keywords safety; transportation; traffic control devices; traffic signals; pavement markings; roadway design;

INSULATED CABLE ENGINEERS ASSOCIATION

E. E. McIlveen, Secretary-Treasurer

P.O. Box 440
South Yarmouth, Massachusetts 02664
(508) 394-4424 FAX: (508) 394-1194

Founded: 1925

Type of Organization Technical Society.
Standards Developer.

Standards Development Standards developer since 1925.
100 members participating.
50 active standards.
Many standards processed through ANSI.

Standards Designation ICEA, ICEA/NEMA, or ANSI/ICEA prefix.

Government Adoption FAA, GSA, Air Force, Navy, Rural Electrification Administration, and others.

Certification No certification, qualification, or accreditation programs.

Scope An international, nonprofit association of cable engineers which develops and publishes standards for electrical power, control, instrumentation, communications, and portable cables. The principal standards writing authority for industrial and utility cables in North America and recognized throughout the world. Membership confined to engineers who are on the technical staffs of concerns engaged in the manufacture of insulated electrical wires and cables, and who are qualified by technical training or experience to contribute to the Association's activities.

Standardisation Activities	Publishes recommended practices and treatises resulting from engineering research conducted by the Association. Publications on cable standards recognized by the National Electrical Manufacturers Association (NEMA), Institute of Electrical and Electronics Engineers (IEEE) and the American National Standards Institute (ANSI).
Availability	Distributed through designated Secretariats. Listings available from Headquarters.
Formerly	Insulated Power Cable Engineers Association
Keywords	electrical cable; insulated cable; electrical equipment, communications; cable;

INSULATED STEEL DOOR SYSTEMS INSTITUTE

Steven C. Wherry, Managing Director

30200 Detroit Road
 Cleveland, Ohio 44145
 (216) 899-0010

FAX: (216) 892-1404

Founded: 1975

Standards Staff: 3

Type of Organization	Trade Association. Standards Developer.
Standards Development	Eight member companies participate in standards development. Ten active standards including seven ANSI Standards.
Government Adoption	The ISDSI standards have been adopted by numerous government agencies.
Certification	No certification, qualification, or accreditation programs.
Scope	A national trade association representing United States companies engaged in the manufacture of insulated steel door systems (consisting of door, frame, and total perimeter seal), which are specially designed and marketed for the residential market and tested to the Institute standards.
Standardization Activities	Promulgates minimum standard specifications for the manufacture of insulated steel door systems to assure quality products for the residential market. Works closely with numerous government agencies, including Department of Housing and Urban Development, Department of Navy, Corps of Engineers, and the Farmers Home Administration. Also cooperates with various code

organizations and with the National Association of Home Builders, the Door & Hardware Institute, and Builders Hardware Manufacturers Association.

Availability Distributed directly.

Keywords doors; buildings;

INTER-SOCIETY COLOR COUNCIL

Dr. Danny C. Rich, Secretary

Datacolor International
5 Princess Road
Lawrenceville, New Jersey 08648
(609) 895-7427 FAX: (609) 895-7461
e-mail: 73700.3514@compuserve.com

Founded: 1933

Type of Organisation Technical Society.
Works through other organizations to develop standards.

Scope Coordinates work leading to the description and specification of color, and promotes the practical application of such work to color problems arising in science, art, and industry. Membership consists of 24 delegates from national societies and individual members, all with a common interest in color.

Standardization Activities Not a standardizing body, but many of the results of its work are incorporated by its member bodies into standards which they issue or sponsor. This work is carried out by sub-committees of the ISCC Problems Committee.

Examples of preliminary work done within the ISCC include the ISCC-NIST Method of Designating Colors and a Dictionary of Color Names (NIST Circular 553); designations of filters for theatrical lighting; definitions of color terms; recommendations for illuminating and viewing conditions in the colorimetry of reflecting materials; standard methods for mounting textile samples for colorimetric measurement; standard practice for the visual examination of small color differences; the determination of sets of maximally different nonfluorescent colors; and identification of pigments in use in artists paint leading to a method for lightfastness determination and an artists' paint specification.

Keywords color; colorimetry; instruments; testing;

INTERNATIONAL ASSOCIATION OF ELECTRICAL INSPECTORS

D. H. Cox, Executive Director

901 Waterfall Way #602
Richardson, Texas 75080
(214)235-1455

FAX: (214) 235-3855

Founded: 1928

Standards Staff: 2

**Type of
Organization**

Trade Association.
Works through other organizations to develop standards.

Representation

20 members and 20 alternates on the National Electrical Code promulgated by the National Fire Protection Association. Also participates on the ANSI C80, C73 and ANSI C2 committees; the UL Standards Review Council; and NFPA committees 70A, 70B, 70E, and 79.

Certification

Member of the National Board of Governors for the certification of electrical inspectors, administered by the Educational Testing Service, Princeton, New Jersey.

Scope

Promotes cooperation between inspectors, the electrical industry, and the public. Collects and disseminates information relative to the safe use of electricity. Over 20 000 members including inspectors, contractors, electricians, consulting engineers, utilities, and testing labs. Seventy-five percent of its meetings and publication programs are devoted to standardization activities. Maintains liaison in its code activities with its members in Canada and Japan.

**Standardization
Activities**

Cooperates in the formulation of standards for the safe use of electrical materials, devices, and appliances. Also promotes the uniform understanding and application of the National Electrical Code, as well as other electrical codes and standards. Maintains liaison with the federal government in many standardization activities, particularly for the use and application of the National Electrical Code. Cooperates with the Department of Housing and Urban Development, the Consumer Product Safety Commission, as well as with the Occupational Safety and Health Administration (OSHA) of the Department of Labor. Also serves on various NFPA, ANSI, and UL standards writing committees.

Keywords electrical code; inspection; safety; building; government officials;

INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS

Dick Woods, Executive Director

20001 Walnut Drive South
Walnut, California 91789
(909) 595-8449

FAX: (909) 594-1537

Founded: 1926

Standards Staff: 1

Type of Organization

Trade Association.
Standards Developer and works through other organizations to develop standards.

Standards Development

Product and Installation standards are processed through IAPMO's Annual Conference. Eight standards are processed through ANSI. Draft standards are available for review. 57 standards are currently published.

Standards Designation

PS, IAPMO Product Standards.
IS, IAPMO Installation Standards.

Government Adoption

The Uniform Plumbing Code is used in over 2500 jurisdictions in the United States and is the mandatory code for 13 states.

Certification

Develops monthly listing of 10 000 products that have been tested and meet the requirements of applicable standards and the Unified Plumbing Code. Certification must be updated and renewed annually and manufacturers are subject to reinspection during the year of listing.

Secretariats

Accredited Standards Committees Z124, and A40

Scope

Established by and for inspection officials of cities, counties, and states with the goal of bringing about uniformity in plumbing codes and their interpretation. Sponsors the Uniform Mechanical Code.

Standardization Activities

Presently writes installation and product standards for conventional plumbing products. Promulgates both installation and material standards for plumbing in the mobile home and recreational vehicle industry. Standardization activities are administered by the IAPMO Standards Committee and IAPMO Mobile Home Standards Committee. Works with the Department of Housing and Urban Development, the Department of Labor, and the National Institute of Standards and Technology.

Availability Sold directly.

Formerly Los Angeles Area Plumbing Inspector Association (1926)
Plumbing Inspectors Association of Southern California (1929)
Plumbing Inspectors Association of California (1930)
Pacific Coast Plumbing Inspectors Association (1934)
Western Plumbing Officials Association (1945)

Keywords building code; plumbing code; mobile home; recreational vehicle;
safety building; government officials;

INTERNATIONAL BRIDGE, TUNNEL AND TURNPIKE ASSOCIATION

Neil D. Schuster, Executive Director

2120 L Street NW.
Washington, DC 20037
(202) 659-4620 FAX: (202) 659-0500

Founded: 1932

Type of Organization Trade Association.
Works through other organizations to develop standards.

Representation National Committee on Uniform Traffic Control Devices
National Fire Protection Association.

Scope A nonprofit association serving the needs of toll and tax supported bridges, tunnels, and highways. Concerned with the improvement of highway transportation in general. Members operate over 340 toll facilities with a combined value of approximately \$50 billion.

Standardization Activities Works closely with the government and allied agencies and associations, such as the National Committee on Uniform Traffic Control Devices and the National Fire Protection Agency, to promote safety and improvement in highway transportation.

Keywords construction; transportation; tunnels; bridges; highways; finance; electronic toll collection;

INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS

J.J. Barry, International President

1125 15th Street NW.
Washington, DC 20005
(202) 733-7000 FAX: (202) 467-6316

Founded: 1891 Standards Staff: 7

Type of Organization International Labor Union (Canada and United States). Works through other organizations to develop and revise standards.

Representation Sixty members and staff active in activities including NFPA, ANSI, IEEE, ASTM, CSA (Canada) and other organizations.

Scope 850 000 members employed in electrical industries, including electrical construction and maintenance, power generation, transmission and distribution, telecommunications, radio, TV broadcasting, electrical product manufacturing.

Standardization Activities IBEW staff and selected IBEW members are active on all code panels of NFPA 70, The National Electrical Code. IBEW staff are members of ANSI C-2 National Electric Safety Code Technical Subcommittees and administrative groups. The IBEW participates in other standards relative to electrical work and equipment used in the performance of work.

Although not a standards body, the IBEW cooperates and participates in the work of standards bodies which affect electrical workers and public safety considerations for electric supply and utilization.

Keywords labor; union; electrical equipment; electric power; workers;

INTERNATIONAL CADMIUM ASSOCIATION

Hugh Morrow, President, North America

12110 Sunset Hills Road
Suite 110
Reston, Va 22090
(703) 709-1400

FAX: (703) 709-1402

Founded: 1980

Standards Staff: 4

Type of Organization Trade Association. Works through other organizations to develop standards.

Representation 26 member companies.
40 members on standards committees of ASTM, ANSI, NACE, SSPC, NEMA, NAMF, DCMA, AWS, ISO, ANSF, MFSA, and a number of others.

Scope The cadmium industry's market development and informational organization in North America. Promotes increased usage of cadmium metal and chemicals through technology transfer, technical services, regulatory activities, and publicity programs. Maintains an awareness of studies on the environmental effects of cadmium and of the regulations affecting the manufacture, use, and disposal of cadmium-containing products. A nonprofit trade association supported by producers and consumers of cadmium both in North America and throughout the world. International Cadmium Association was formed by merger of the Cadmium Council in North America and the Cadmium Association in Europe.

Standardization Activities Promotes the increased use of cadmium metal and chemicals and maximizes the effectiveness of its members on national standards committees. Assists the work of standards developing bodies within its area of interest by designating Council members to coordinate with the appropriate code bodies.

Participates in developing standards including specifications for cadmium electroplating for corrosion and wear properties, color pigments, nickel-cadmium, and other cadmium-containing batteries, cadmium chemical stabilizers in plastics, and for a wide variety of soldering and brazing alloys.

Formerly Cadmium Council (1995)

Keywords electroplating; corrosion protection; pigments; batteries; chemicals; materials; recycling; human health; environmental effects;

INTERNATIONAL CAST POLYMER ASSOCIATION

Ms. Bari Moorefield, Executive Vice President

1735 N. Lynn Street
 Suite 950
 Arlington, Virginia 22209
 (703) 276-2644 FAX: (703) 524-2303

Founded: 1974

Type of Organization Trade Association.
 Standards Developer.

Standards Designation ANSI Z124.x.

Government Adoption All major code bodies and most state codes reference the Z124 Standards.

Certification CMI administers a certification program for cultured marble lavatories, shower receptors and bathtubs utilizing third party independent testing laboratories.

Scope Represents manufacturers of cultured marble products, such as lavatories, bathtubs, shower receptors, water closets and flat stocks. Focuses on improving the quality of cultured marble in the marketplace and increasing market penetration of members' products.

Standardization Activities Represented on ANSI Z124 Committee that is responsible for standards covering bath tubs (Z124.1), shower pans (Z124.2), lavatories (Z124.3), water closets (Z124.4), and kitchen and bar sinks (Z124.6).

Availability Distributed through ANSI.

Keywords cultured marble; plumbing fixtures; building; materials;

INTERNATIONAL CENTRE FOR DIFFRACTION DATA

Daniel C. Richardson, General Manager

12 Campus Boulevard
 Newtown Square, Pennsylvania 19073
 (610) 325-2750 FAX: (610) 325-9823

Founded: 1941 Standards Staff: 28

Type of Organization Scientific Society.
 Developer of Standard Reference Database.

Scope Membership consists of scientists from academic, government, and industrial institutions who are actively engaged in developments in the field of x-ray powder diffraction and related disciplines. A paid professional staff edits, maintains, and distributes the Powder Diffraction File, a database for identification of materials by using x-ray powder diffraction techniques.

Formerly Joint Committee on Powder Diffraction Standards

Availability The Powder Diffraction File (PDF) is distributed directly.

Keywords chemical analysis; x-ray diffraction; crystallography; databases;

INTERNATIONAL COMMUNICATIONS INDUSTRIES ASSOCIATION

Walter G. Blackwell, Executive Director

3150 Spring Street
Fairfax, Virginia 22031
(703) 273-7200 FAX: (703) 278-8082
e-mail: icia@icia.org

Founded: 1939

Type of Organization Trade Association.
Works through other organizations to develop standards.

Representation American National Standards Committee PH7.

Scope Commercial trade association for manufacturers, producers, and dealers of audio and visual communications products in the area of projection, as well as video and computers. Membership includes 800 domestic companies and more than 100 international members.

Standardization Activities Seventy-five members active on working committees, subcommittees and task forces of Committee PH7 on Instructional Audio-Visual Systems Standards. Standards developed through PH7, issued through ANSI.

Formerly National Association of Visual Education Dealers (1939-1947)
National Audio-Visual Association (1947-1983)

Keywords audio-visual; visual; communications;

INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS

Jon S. Traw, President

5360 Workman Mill Road
Whittier, California 90601
(310) 699-0541 FAX: (310) 699-8031
Founded: 1922 Standards Staff: 110

Type of Organization Professional Association.
Standards Developer.

Standards Development Developer and co-developer of 14 codes for all aspects of building construction.
Invokes nearly 1000 standards of ASTM, UL, NFPA, ANSI and others.

Standards Designation	Uniform Building Codes.
Government Adoption	Jurisdictions which enforce the Uniform Building Code and its related documents are spread throughout the United States as well as territories of many of the Pacific and Caribbean Islands. The uniform codes have also served as the basis for the Tri-Services Manual for the Army, Navy and Air Force.
Certification	Provides a voluntary certification program. Code enforcement categories of certification include, but are not limited to, building inspector, electrical inspector, plumbing inspector, mechanical inspector, combination inspector, rehabilitation/conservation inspector, fire inspector, and plans examiner. Special certification includes reinforced concrete inspection, prestressed concrete inspection, structural masonry inspection, and structural steel/welding inspection.
Scope	Objective is to furnish a complete set of Uniform Codes for state, county, and city administrative authorities responsible for enforcement of building laws to ensure a high level of safety to life from fire, structural, and exit hazards. Maintains and improves the codes on a continuous basis.
Standardization Activities	Publishes the Uniform Building Code, Uniform Mechanical Code, Uniform Fire Code, and other related documents setting forth minimum standards for safe construction in buildings and structures. Also develops criteria for acceptance of new products through its subsidiary corporation. Issues recommendations to the member jurisdictions in order that manufacturers may obtain uniform recognition of their new products.
Availability	Sold directly.
Formerly	Pacific Coast Building Officials Conference (1922) International Conference of Building Officials (1958)
Keywords	building code; mechanical code; fire code; solar; solid fuel; safety; construction; building; government officials; energy conservation; building conservation; certification;

INTERNATIONAL DISTRICT ENERGY ASSOCIATION

John L. Fiegel, Executive Director

1200 19th Street, NW
Suite 300
Washington, DC 20036
(202) 429-5111

FAX: (202) 429-5113

Founded: 1909

Standards Staff: 1

**Type of
Organization**

Trade Association.
Works through others.

**Standards
Development**

Several members serve on standards committees of ASTM,
ASHRAE, ANSI, AGA, and others.

Scope

750 members, utilities, municipalities, universities, institu-
tions, manufacturers, consultants, engineers, government offi-
cials, and others working in the district heating and cool-
ing/cogenerated heat and power (DHC/CHP) industry. Serves world-
wide interests in DHC/CHP, particularly in the United States and
Canada. Most commercial DHC/CHP systems, operated by investor
owned utilities, are members of IDEA. Provides a principal forum
to exchange information and maintains a liaison with federal
agencies and related professional organizations.

**Standardization
Activities**

None.

Formerly

International District Heating & Cooling Association

Keywords

heating; cooling; district heating and cooling; cogenerated heat
and power; energy; energy recovery; utilities;

INTERNATIONAL ELECTRICAL TESTING ASSOCIATION

Mary Jordan, Executive Director

106 Stone Street
Post Office Box 687
Morrison, Colorado 80465
(303) 697-8441

FAX: (303) 697-8431

Founded: 1972

Standards Staff: 2

**Type of
Organization**

Trade Association.
Standards Developer.

Standards Development Acceptance and Maintenance Testing Specifications for electrical power distribution and utilization equipment.

Standards Designation NETA ATS-1995 Acceptance Testing Specification.
NETA MTS-1993 Maintenance Testing Specification.

Government Adoption Specifications adopted by GSA, the Postal Service, and military departments.

Certification The International Electrical Testing Association is responsible for the certification of independent testing organizations and their technical personnel.

Scope An international organization representing independent electrical power system testing and maintenance companies in areas of common interest, such as specifications for acceptance and maintenance testing, qualifying of technical personnel, qualifying of companies, NFPA and governmental committees, representation, etc.

Standardization Activities Develops testing guidelines for electrical power transmission and utilization equipment, including: Automatic Reclosures and Sectionalizers, Capacitors, Circuit Breakers, Direct Current Systems, Disconnects, Emergency Systems, Fiber-Optic Cables, Ground Fault Systems, Instrument Transformers, Instrumentation, Metal Motor Control, Network Protectors, Outdoor Bus Structures, Power Cables, Power Transformers, Protective Relays, Rotating Machinery, Safety Equipment, Thermographic Testing, Short Circuit Studies and Overcurrent Coordination Studies, Surge Arrestors, Switchboard Assemblies, Switches, Systems. The specifications are based on ANSI, NEMA, and other industry consensus standards.

Availability Distributed directly.

Formerly National Electrical Testing Association

Keywords electricity; certification; safety;

INTERNATIONAL FABRICARE INSTITUTE

Terry Burns, Executive Vice President

12251 Tech Road
Silver Spring, Maryland 20904
(301) 622-1900 FAX: (301) 236-9320
Founded: 1972 Standards Staff: 3

Type of Organisation Trade Association.
Works through other organizations to develop standards.

Representation Represented on ASTM Textiles committee, and ASTM Solvents Committee.

Certification Certify drycleaners as being Certified Environmental Drycleaners (CED) or Certified Professional Drycleaner (CPD).

Scope An international association of 9000 drycleaners and/or laundrers.

Standardization Activities Interested in, and active on, standards committees involved in quality control and safety as they affect members and their customers.

Formerly American Institute of Laundering (1883)
National Institute of Drycleaning (1907)

Keywords drycleaning; laundering; textiles; consumer products;

INTERNATIONAL INSTITUTE OF AMMONIA REFRIGERATION

James E. Elsener, Executive Secretary

1200 19th Street, NW
Suite 300
Washington, DC 20036
(202) 857-1110

FAX: (202) 857-1130

Founded: 1971

Standards Staff: 1

Type of Organization Trade Association.
Standards Developer.

Standards Development Standard Developer since 1976.
One active standard, ANSI approved.
Available for review by members and non-members.

Standards Designation ANSI/IIAR 74-2-1984.

Government Adoption City of Columbus, Ohio has adopted IIAR 74-2 as part of the City Building Code.

Certification No certification, qualification, or accreditation programs.

Secretariats IIAR is the ANSI designated secretariat for ANSI/IIAR 74-2-1984.

Scope A not-for-profit organization formed to promote education, information and standards for proper and safe use of ammonia as a refrigerant. Introduces and encourages constructive educational efforts in the fields of design, safety, installation, operation, maintenance, application, and other subjects to furnish a better understanding of the use of ammonia as a refrigerant.

Standardization Activities Developed and maintains ANSI/IIAR 74-2-1984, American National Standard for Equipment Design and Installation of Ammonia Mechanical Refrigeration Systems.

Availability Distributed directly or through ANSI.

Keywords ammonia; refrigeration; CFC alternative; cooling;

INTERNATIONAL MASONRY INSTITUTE

Joan Baggett Calambokidis, President

823 15th Street NW.

Suite 1001

Washington, DC 20005

(202) 383-3903

FAX: (202) 783-0433

Founded: 1970

Type of Organisation Trade Association.
Works through other organizations to develop standards.

Representation Participates in the standards activities of ASTM, ACI, ASCE, NFPA, and others.

Scope Formed through a joint trust agreement between the Mason Contractors Association of America and the International Union of Bricklayers and Allied Craftsmen. Activities include promotion and national advertising for masonry construction, training of craftsmen, and development of areas related to masonry materials, design and construction.

Standardization Activities Participates on committees involved in the development of standards associated with masonry and masonry construction including ASTM, ACI, ASCE, NFPA, and ANSI. Monitors and recommends changes to the national model codes: BOCA, ICBO, and SSBC.

Keywords masonry; construction;

INTERNATIONAL MOBILE AIR CONDITIONING ASSOCIATION

Frank Allison, Executive Director

P O Box 9000
Fort Worth, Texas 76147
(817) 338-1100 FAX: (817) 338-1451

Founded: 1958 Standards Staff: 2

**Type of
Organization**

Trade Association.
Standards Developer.

**Standards
Development**

25 active standards.
None processed through ANSI.

**Standards
Designation**

IMACA prefix.

**Government
Adoption**

IMACA Standard 200 is used by General Services
Administration.

Scope

Serves system manufacturers, parts and service suppliers,
distributors, and dealers in mobile air conditioning applications,
including auto, heavy truck, recreational vehicle, farm and
off-highway vehicle. Programs include sales promotion, engineer-
ing standards, monthly magazine, technical papers, and legislative
activities.

**Standardization
Activities**

The Engineering Committee administers the standards
program, currently consisting of 25 standards in print under the
IMACA name. All standards are national in scope. The use of
standards is voluntary and promoted through the national trade
press and the IMACA monthly magazine.

Availability

Distributed directly.

Formerly

Automotive Air Conditioning Association (1970)

Keywords

air-conditioning; mobile air-conditioning; transportation;
automotive;

INTERNATIONAL MUNICIPAL SIGNAL ASSOCIATION

Linda Rogers, Technical Training Coordinator

165 E. Union Street
Post Office Box 539
Newark, New York 14513
(315) 331-2182 FAX: (315) 331-8205
Founded: 1896 Standards Staff: 2

Type of Organization	Technical Society. Standards Developer.
Standards Development	50 active standards. None processed through ANSI.
Standards Designation	IMSA prefix.
Government Adoption	IMSA Wire and Cable Specifications have been recognized by the Department of Transportation and the Bureau of Public Roads.
Certification	Offers certification in the public safety fields of Traffic Signal Technician, Fire Alarm Technician, Signs and Markings Specialists, and Radio Dispatcher. Also offers certification for Work Zone Traffic Control and Roadway Lighting
Scope	A nonprofit, technical and educational association. Membership consists of 5500 members in the United States, Canada, Mexico, and the free countries of the world actively engaged in the engineering, construction, maintenance and operation of electrical, electronic and graphic communication systems used in public safety services, such as fire and police alarms, traffic control, radio communications, street lighting, signs and markings and related systems. Develops standards and manuals for use by the members and industry. Collects and disseminates educational material. Encourages unification in public safety fields for the purpose of improving the efficiency of public safety services.
Standardization Activities	Develops standards for various types of signal and communications wire and cable which must meet the requirements of ASTM and Underwriters Laboratories. Maintains a Cable Committee which updates and revises standards. Participates on Technical Committees of the National Committee on Uniform Traffic Control Devices, the Institute of Transportation Engineers Technical Council Committee, and the National Fire Protection Association. The Federal Communications Commission for Fire and EMS Radio Service recognizes IMSA as the Fire Frequency Coordination Body.
Availability	Distributed directly.
Keywords	electrical equipment; wire; cable; safety; communications;

INTERNATIONAL SAFE TRANSIT ASSOCIATION

Dennis E. Young, Technical Director

1400 Abbott Road
Suite 310
East Lansing, Michigan 48823-1900
(517) 333-3437 FAX: (517) 333-3813
e-mail: ista@pobox.com

Founded: 1948 Standards Staff: 2

Type of Organization Trade Association.
Standards Developer.

Standards Development 3 Preshipment Test Procedures.

Certification Accredits laboratories to perform testing services in accordance with ISTA procedures so that they, in turn, can certify that packages tested meet approved criteria and be designated "ISTA Safe Transit Tested."

Scope A voluntary, cooperative program which aims to reduce in-transit damage through a standardized program of preshipment testing, certification, and identification.

Standardization Activities Committee research and discussion leading to the standards for the preshipment testing of packaged products. Activity covers both testing procedures and performance levels.

Availability Sold directly.

Formerly National Safe Transit Association (1992)

Keywords packaging; containerization; transportation; testing;

INTERNATIONAL SLEEP PRODUCTS ASSOCIATION

Russell L. Abolt, Executive Vice President

333 Commerce Street
Alexandria, Virginia 22314
(703) 683-8371 FAX: (703) 683-4503

Founded: 1915

Type of Organization Trade Association.
Works through other organizations to develop standards.

Scope Represents manufacturers of mattresses and bedsprings, as well as suppliers of machinery, raw and finished materials, components and other supplies, and services necessary to the manufacture of sleep products.

Standardization Activities Since 1922, instrumental in the development of voluntary "size standards" for bedding products and components. These have included the NIST Simplified Practice Recommendation, R-2 series, issued as ANSI Standards, Z357.1-1981, superseded in 1989 by ISPA voluntary product dimensional guideline. Also co-sponsored Bar Code Marking Standard for the Furnishings Industry.

Formerly National Association of Bedding Manufacturers

Keywords bedding; mattresses; consumer products;

INTERNATIONAL SOCIETY OF ARBORICULTURE

Chris Coleman, Executive Director

6 Dunlap Court
P.O. Box 66
Savoy, Illinois 61801
(217) 335-9411 FAX: (217) 355-9516
Founded: 1924 Standards Staff: 1

Type of Organization Professional Society.
Standards Developer.

Standards Development 1 active standard.
Processed through ANSI.

Secretariats ANSI Committee Z133.1, Safety in Tree Care Operations.

Scope Individuals engaged in commercial arboriculture; city, state, national government employees, and others interested in shade tree welfare. Conducts research programs.

Standardization Activities Fosters the use of a standard which provides safety criteria for workers and the public. This standard presents safety requirements for pruning, trimming, repairing, maintaining, and removing trees; for cutting brush; and for the equipment used in such operations.

Availability Distributed through ANSI.

Formerly International Shade Tree Conference

Keywords arboriculture; horticulture; tree care; safety;

INTERNATIONAL STAPLE, NAIL AND TOOL ASSOCIATION

John Kurtz, Executive Vice President

435 North Michigan Avenue
Suite 1717
Chicago, Illinois 60611
(312) 644-0828

FAX: (312) 644-8557

**Type of
Organization**

Founded: 1966
Trade Association.
Standards Developer.

Standards Staff: 1

**Standards
Development**

1 active standard.
ANSI approved.

**Standards
Designation**

SNT prefix.

Scope

An organization financed and directed by manufacturers of collated fasteners and power tools for driving them. Membership represents eighty percent of the pneumatic power tools and related fasteners produced in the world. Promotes and furthers the utilization of machine-applied staples, nails and similar fasteners and their power tools.

**Standardization
Activities**

Maintains a Technology Committee which is responsible for the development of standards in performance, safety, code approvals, and technical coordination with government agencies, code bodies, volunteer standards organizations, and other related associations.

Develops standards on tool design and operation and guidelines on performance testing of fastened connections. Representatives participate in standards development of other organizations involving driven fasteners.

Cooperates with federal, state, and local governments in the application of standards and with voluntary public organizations and code bodies in establishing acceptable fastening criteria and product applications.

Availability

Sold directly.

Formerly

Industrial Stapling and Nailing Technical Association (1975)
Industrial Stapling Manufacturers Institute (1972)

Keywords

fasteners; nails; staples; tools; power fastening; pneumatic fastening; industrial equipment; manufacturing;

INTERNET SOCIETY

Scott Bradner, Vice President for Standards

12020 Sunrise Valley Drive
Suite 210
Reston, Virginia 22091-3429
(703) 648-9888 FAX: (703) 648-9887
e-mail: ietf-web@cnri.reston.va.us
WWW: <http://info.isoc.org>

Founded: 1992 Standards Staff: 6

**Type of
Organization**

Technical Society.
Standards Developer.

**Standards
Development**

Develops Internet-Drafts and Request for Comments (RFCs). Internet Drafts have no formal status and can be changed or deleted at any time. RFCs are the official Internet document series; however, not all RFCs are standards. More than 3000 individuals participate in standards activities. A typical draft represents the efforts of more than 1000 participants.
51 Internet-Drafts.
8 Draft Internet Standards.
52 Proposed Internet Standards in process.

**Standards
Designation**

RFCxxxx.

**Government
Adoption**

The Internet Society's Internet Assigned Number Authority is chartered by the Federal Network Council to act as the clearinghouse to coordinate the assignment and use of numerous unique parameter values for Internet protocols.

Certification

At this time there are no certification, qualification, or accreditation programs.

Scope

One of the principal rationales for the Internet Society is to provide an institutional home and financial support for the Internet Standards process. The society does this on an international basis, and acts as a neutral, internationally recognized body, devoted to the support of Internet administrative infrastructure. The Internet Society currently consists of more than 5000 individual members and 100 network, product, information and systems management providers, and research and educational institutions.

**Standardization
Activities**

The working principles for Internet Standards development are codified in RFC 1602 (or the current version of the document). At the technical and developmental level, the Internet is made possible through creation, testing and implementation of Internet Standards. These standards are developed by the Internet Engineering Task Force. The standards are then considered by the Internet Engineering Steering Group, with appeal to the Internet

Architecture Board, and promulgation by the Internet Society as international standards. The RFC Editor is responsible for preparing and organizing the standards in their final form. The standards may be found at numerous sites distributed throughout the world. (See, for example, the ds.internic.) At the applications level, the MIT World Wide Web Consortium plays the leading role in developing and promulgating WWW standards.

The Internet Engineering Task Force (IETF) is the protocol engineering and development arm of the Internet. The IETF is a large open international community of network designers, operators, vendors, and researchers concerned with the evolution of the Internet architecture and the smooth operation of the Internet. It is open to any interested individual.

The actual technical work of the IETF is done in its working groups, which are organized by topic (e.g., routing, network management, security, etc.). Much of the work is handled via mailing lists; however, the IETF also holds meetings three times per year. Proceedings of the IETF meetings are made available in the following forms:

- Hypertext proceedings
- Gopher proceedings
- FTP from ftp.ietf.cnri.reston.va.us in/ietf-online-proceedings, and
- Hard copy proceedings.

The internal management of the IETF is handled by the area directors. Together with the Chair of the IETF, they form the Internet Engineering Steering Group (IESG). The operational management of the Internet standards process is handled by the IESG under the auspices of the Internet Society. The Internet Architecture Board (IAB) is a body of the Internet Society responsible for overall architectural considerations in the Internet. It also serves to adjudicate disputes in the standards process.

The Internet Society maintains a membership relationship with the International Telecommunications Union (ITU), which facilitates standards coordination between Internet Society and ITU activities, particularly in the Telecommunications Sector (ITU-T). This coordination includes the exchange of information, and joint meetings, exhibits, and workshops.

Availability All Internet Standards are available at no cost on the Internet. An RFC Index is available in the Database and Directory Services part of the InterNIC.

RFCs may be obtained via e-mail or FTP from many RFC Repositories throughout the world. Details on obtaining standards via FTP or e-mail may be obtained by sending an message to: rfc-info@ISI.EDU with the message body help: ways_to_get_stds. For Example:

To: rfc-info@ISI.EDU.
Subject: getting std's.
help: ways_to_get_stds.

Keywords global network; World Wide Web; telecommunications; protocols; intellectual property;

IRRIGATION ASSOCIATION

Thomas H. Kimmell, Executive Director

8250 Willow Oaks Corporate Drive
Suite 120
Fairfax, Virginia 22031
(703) 573-3851 FAX: (703) 573-1913
Founded: 1949 Standards Staff: 1

Type of Organisation Trade Association.
Standards Developer.

Standards Development 1200 members active in standards development.

Certification Programs for irrigation designers, contractors, landscape irrigation auditors.

Scope Represents manufacturers, distributors, contractors, and technical personnel involved with agricultural and landscape irrigation systems.

Standardization Activities Engages in standards activities for comparing components through testing. Provides standard developers with the criteria for comparing products. Represents the United States to ISO/TC 23, SC 18. Maintains representation on committees of ANSI, ASAE, and ASME.

Availability Distributed directly.

Keywords irrigation; water conservation; sprinklers; agriculture; drip/micro; center pivot;

ISA, THE INTERNATIONAL SOCIETY FOR MEASUREMENT AND CONTROL

Glenn F. Harvey, Executive Director

67 Alexander Drive
P.O. Box 12277
Research Triangle Park, North Carolina 27709
(919) 549-8411 FAX: (919) 549-8288
WWW: <http://www.isa.org/>

Founded: 1945 Standards Staff: 7

**Type of
Organization**

Technical Society.
Standards Developer.

**Standards
Development**

Standards developer since 1945.
4000 members participating in standards activities.
101 active standards; 150 active committees.
Standards are processed through ANSI.
Draft standards available for review.

**Standards
Designation**

ISA-S, ISA Standard.
ISA-RP, ISA Recommended Practice.
ISA-TR, ISA Technical Report.

**Government
Adoption**

NRC, DoD, USCG and others.

Certification

No certification, qualification, or accreditation programs.

Secretariats

Secretariat of IEC SC 31C Increased Safety Apparatus,
IEC SC 31L Combustible Gas Detectors and IEC SC 65B Devices. ISA
also serves as the administrative secretariat for U.S. TAG for
IEC/TC 65, Industrial Process Measurement and Control; IEC/TC 66
on Electronic Measuring Equipment; IEC/TC 31, SC/31G on electrical
apparatus for explosive atmospheres; and TC 85 measuring equipment
for electromagnetic quantities.

Scope

Chartered as a nonprofit educational organization, its membership
comprises more than 49 000 practitioners, scientists, educators,
and students worldwide involved in industrial instrumentation and
control technology.

Advocates the advancement of the technology of process measurement
and control instrumentation through education. Augments the
exchange of knowledge and information through a wide variety of
publications and by developing consensus industry standards.

**Standardization
Activities**

Prepares and promotes national and international
standards which are competent, unbiased, widely applicable, and
authoritative. Standards and practices committees span a wide

spectrum of industries and technical interests dealing with measurement and control instrumentation. Topics include symbology, computer hardware and software, intrinsic safety, thermocouples, flowmeters, transducers, rotameters, face-to-face dimensions of control valves, control valve sizing, control valve capacity test procedures, manifold designs, pneumatic circuits, annunciators, dynamic response testing, specification forms, piping and instrument drawings, instrumentation for nuclear and fossil fuel power plants, installation practices, terminology, composition analyzers, environmental conditions for digital systems, strain gages, liquid level gages, batch control, combustible and toxic gas detectors, programmable electronic systems, fire detection instruments, and continuous weighing instrumentation.

Availability Distributed directly and through ANSI, IHS, and Global.

Keywords instrument; measurement; process measurement; control telemetry; metrology; analysis; automatic controls; scientific instrumentation; valves; industrial equipment;

ITA, THE INTERNATIONAL RECORDING MEDIA ASSOCIATION

Charles Van Horn, Executive Vice President

505 Eighth Avenue
Floor 12A
New York, New York 10018
(212) 643-0620 FAX: (212) 643-0624

Founded: 1970 Standards Staff: 2

Type of Organization Trade Association.
Standards Developer.

Standards Development Standards developer since 1978.
Five current standards.
None processed through ANSI.

Standards Designation ITA, The International Recording Media Association.

Scope An international trade association that represents companies of many nations in the consumer and industrial electronics sector, specifically tape and disc, both audio and video, as well as home entertainment firms related to tape/disc/audio/video.

Formerly American Jewelers Protective Association (1943)
Keywords jewelry; precious metals; precious stones; materials; consumer products;

JOINT NEUROSURGICAL COMMITTEE ON DEVICES/DRUGS

Dr. Allan Friedman, Dr. Francis Gamache, Cochairmen

c/o American Association of Neurological Surgeons
22 South Washington Street
Park Ridge, Illinois 60068
(312) 692-9500

Founded: 1974

Type of Organization Professional Society.
Works through other organizations to develop standards.

Representation ASTM, AAMI, ANSI, FDA Advisory Panel, World Federation of Neurosurgical Societies.

Scope An educational and advisory group sponsored by the American Association of Neurological Surgeons and the Congress of Neurological Surgeons to assist in the writing of neurological standards by participating in the activities of standards developing organizations. Also active as an advisory group for such organizations as the American Medical Association, the American College of Surgeons, the FDA, and the U.S. Congress.

Standardization Activities Coordinates participation in committees developing standards for materials, devices, and practices used by neurosurgeons. Current activities center on ASTM F4.05, Subcommittee on Neurosurgery, and Committees of the Association for the Advancement of Medical Instrumentation (AAMI). Standards of interest include: tissue adhesives, aneurysm clips, carotid clamps, cranial tongs, stereotactic devices, surgical microscopes, RF generators, transcutaneous electrical nerve stimulators, intracranial pressure-monitoring devices, and computed tomography practices. Monitors activities of ISO/TC 150/SC 3 and IEC/TC 62 through ASTM and AAMI.

Formerly Merger of committees on Materials and Devices of the American Association of Neurological Surgeons and the Congress of Neurological Surgeons (1974)

Keywords medical devices; neurosurgery; materials; instrumentation; medical care;

JUVENILE PRODUCTS MANUFACTURERS ASSOCIATION

William L. MacMillan, President

236 Route 38 West, Suite 100
Moorestown, New Jersey 08057
(609) 231-8500 FAX: (609) 231-4664
Founded: 1962 Standards Staff: 3

Type of Organization Trade Association.
Works through other organizations to develop standards.

Representation American Society for Testing and Materials.

Certification Sponsors a certification program for play yards, high chairs, walkers, expandable gates and enclosures, carriages and strollers, full-size baby cribs and portable hook-on chairs which provides a certification seal and directory listing for all products in compliance with ASTM Safety Specifications.

Scope Association of manufacturers of juvenile furniture and accessories.

Standardization Activities Advocates the use of ASTM Standards for performance requirements for play yards, high chairs, walkers, expandable gates and enclosures, carriages and strollers, full-sized baby cribs and crib cornerpost extensions, and portable hook-on chairs.

Keywords juvenile furniture; consumer products;

LABORERS INTERNATIONAL UNION OF NORTH AMERICA

Arthur A. Coia, General President

905 16th Street NW.
Washington, DC 20006
(202) 737-8320 FAX: (202) 737-2754
Founded: 1903

Type of Organization Labor Union.
Works through other organizations to develop standards.

Certification Training facilities are set up throughout North America to gain a high competency level and certification of skills for members who are in the construction and environmental remediation industries.

Standardization Activities Active in all model codes with continuous voting representation on the ASME A.40 Committee. Has a specific interest in standards development because of the health and safety of labor workers, as well as the public.

Formerly Prior to 1965, International Hod Carriers, Building and Common Laborers' Union of America

Keywords union; utilities; pipe installation; construction; safety; environmental remediation;

LASER INSTITUTE OF AMERICA

Peter Baker, Executive Director

12424 Research Parkway
 Suite 130
 Orlando, Florida 32826
 (407) 380-1553 FAX: (407) 380-5588
 e-mail: lia@mail.creol.ucf.edu
 www.creol.ucf.edu/~lia\

Founded: 1968 Standards Staff: 1

Type of Organization Professional Society.
 Standards Developer.

Representation ANSI.

Secretariats ANSI Z136 Committee on Laser Safety.

Scope A nonprofit membership organization devoted entirely to the educational advancement and promotion of the technology and applications of lasers. Conducts continuing education courses, seminars and technical symposia nationwide, and offers a variety of educational materials and publications.

Standardization Activities Develops standards on the Safe Use of Lasers. Provides guidance in hazard education and control measures to industry and health care facilities, and all personnel involved with lasers in manufacturing, communication, and medical applications. Details laser safety and training programs, as well as medical surveillance. Provides protocols for the various conditions of eye and skin exposure and methods for determining the information required for hazard evaluation and control. These consensus standards have been adopted by the national and international federal and state regulatory bodies, including the military, as basic documents or inputs to IEC and WHO standards dealing with laser safety.

Keywords laser; safety; medical;

LEAD INDUSTRIES ASSOCIATION

Jerome F. Smith, Executive Director

295 Madison Avenue
New York, New York 10017
(212) 578-4750 FAX: (212) 684-7714

Founded: 1928

Type of Organization Trade Association.
Works through other organizations to develop standards.

Representation 75 members active in standardization activities.
Represented on committees of ASTM, ANSI, NIST, ISO, ACS, NACE, AWS, and others.

Scope A nonprofit trade association representing all segments of the lead industry. Serves as the industry's market development arm by promoting increased use of lead and its end-products in a cost-effective and environmentally sound manner.

Standardisation Activities Maximizes the effectiveness of its representatives on national standards committees. Participates in developing standards for noise control, radiation protection, waste disposal, waterproofing, ceramics, solder, plastics, and batteries.

Committees monitor and assist the work of standards developing bodies within their areas of interest by designating committee members for liaison and coordination with appropriate code bodies.

Keywords nuclear; noise control; solder; lead; materials;

LIBRARY BINDING INSTITUTE

Sally Grauer, Executive Director

7401 Metro Boulevard
Suite 325
Edina, Minnesota 55439
(612) 835-4707 FAX: (612) 835-4780
Founded: 1935 Standards Staff: 1

Type of Organization	Trade Association. Standards Developer.
Standards Development	LBI Standard for Library Binding; first produced in 1971 and eighth edition produced in 1986.
Certification	Certification program for members who are commercial library binders.
Scope	An international trade association of library binders, suppliers to the industry and all others interested in preserving the useful life of written materials. Works at providing members with information and services so that they can better serve their customers.
Standardization Activities	Works with ANSI and Z39 Committees. Also has developed an inter-organizational Library Binding Institute standard for library binding.
Availability	Sold directly.
Keywords	library binding; book binding; communications;

LIGHTNING PROTECTION INSTITUTE

C. Andrew Larsen, Executive Director

3335 N. Arlington Hts. Road
Suite E
Arlington Hts., Illinois 60004
(708) 255-8008 FAX: (708) 577-7276

Founded: 1955 Standards Staff: 1

Type of Organization	Trade Association. Standards Developer.
Standards Development	Standards developer since 1982. 12 members participating in LPI standards development. 4 members participating in NFPA standards development. None processed through ANSI.
Standards Designation	LPI prefix.
Certification	Offers product certification for lightning protection systems, as well as certification in 5 skill areas including, Master Installer, Journeyman Installer, Systems Designer, Systems Inspector, and Systems Designer/Inspector.

Scope An association comprised of both manufacturers and dealers who supply and install components used in lightning protection systems for buildings and other structures and related industry professionals i.e., architects, engineers and consultants.

Standardization Activities Develops standards designed to cover all materials and components which might be under stress while a lightning protection system is conducting lightning current. Also covers metals from the standpoint of durability as they are subjected to weathering and possible damage from corrosion, physical impact, or reaction with dissimilar metals.

Availability Distributed directly and through LPI manufacturer. members.

Formerly Lightning Rod Manufacturers Association (1955)

Keywords lightning rods; lightning protection; building safety;

MAGNETIC MATERIALS PRODUCERS ASSOCIATION

August L. Sisco, Executive Secretary

11 S. LaSalle Street
 Suite 1400
 Chicago, Illinois 60203
 (312) 201-0101 FAX: (312)201-0214
 Founded: 1959 Standards Staff: 1
 Trade Association.
 Standards Developer.

Type of Organization

Standards Development 28 members participate in standards development.

Government Adoption Department of Defense has adopted 0100.

Scope Primary objective is to promote the progress and development of the magnetic materials industry through standardization programs and other activities as necessary.

Standardization Activities MMPA publishes 0100-90, Standard Specifications for Permanent Magnet Materials; PC 110, Standard Specifications for Ferrite Pot Cores; FTC 410, Standard Specifications for Ferrite Toroid Cores; UEI 310, Standard Specifications for Ferrite U, B & I Cores; PMG-88, Permanent Magnet Guidelines; and SFG-92, Soft Ferrites, A Users's Guide.

Availability Sold directly.
Formerly Permanent Magnet Producers Association
Keywords magnetic materials; cores; electronic; materials;

MANUFACTURED HOUSING INSTITUTE

Jerry C. Connors, President

2101 Wilson Boulevard
Suite 610
Arlington, Virginia 22201
(703) 558-0400 FAX: (703) 558-0401
Founded: 1936 Standards Staff: 3

Type of Organization Trade Association.
Works through other organizations to develop standards.

Representation The technical staff and membership participate in development of national standards by a consensus committee for manufactured housing and in cooperation with ASHRAE, NFPA, ASTM, NCSBCS, UL, and others endorsed by ANSI.

Secretariats Secretariat for a consensus committee which makes annual recommendations to the U.S. Department of Housing and Urban Development (HUD) to update the Federal Manufactured Home Construction and Safety Standards.

Scope A nonprofit trade association comprised of manufacturers, suppliers, insurers, financiers, retailers, community developers and community owners engaged in producing and servicing manufactured homes. Serves as a liaison to Congress and federal agencies in order to promote and protect the interest of the manufactured housing industry and its consumers. Provides monthly statistical reports on the industry and marketing strategies. Maintains finance, site development, government relations and public relations program and sponsors annual expositions and forums.

Standardization Activities The standards program is designed to assist members in making the manufactured home a safe, comfortable residence for the owner to live amid attractive surroundings. Advises the U.S. Department of Housing and Urban Development on the Federal Manufactured Home Construction and Safety Standards and Procedural and Enforcement Regulations (24 CFR 3280, 3282, 3283). These federal standards regulate the design and construction of the homes that are constructed by MHI members.

Formerly Mobile Home Manufacturers Association (1936)
Keywords manufactured homes; factory built homes; building; mobile homes;

MANUFACTURERS STANDARDIZATION SOCIETY OF THE VALVE AND FITTINGS INDUSTRY

Olen Thornton, Executive Director

127 Park Street, NE
Vienna, Virginia 22180-4602
(703) 281-6613 FAX: (703) 281-6671

Founded: 1924 Standards Staff: 4

Type of Organization Trade Association.
Standards Developer.

Standards Development Standards developer since 1924.
95 members.
61 current standards or guidelines documents, all data presented bi-dimensionally.

Standards Designation MSS SP prefix.

Government Adoption One third of standards have been adopted for government agency use, more expected.

Secretariats U.S. TAG's for ISO/TC 153 and SC 5, 10, and Working Group 14 of SC 1, in ISO/TC 5.

Scope Addresses the needs for standardization, specification, and documentation related to industrial valves, fittings, flanges, pipe hangers, valve actuators and associated seals.

Standardization Activities Develops and reviews standards. Publishes documents available. Maintains informal liaisons with ASME, API, AWWA, ASTM, UL and other committees/organizations.

Availability Hard copy sold directly; microform and electronic format available through IHS.

Keywords valves; fluid controls; industrial equipment; fittings; flanges; pipe hangers; actuators; packings; gaskets;

MANUFACTURING AUTOMATION PROTOCOL (MAP)

see CORPORATION FOR OPEN SYSTEMS INTERNATIONAL

MANUFACTURING JEWELERS AND SILVERSMITHS OF AMERICA

David L. Rocha, Acting President

One State Street
Providence, Rhode Island 02908
(401) 274-3840 FAX: (401) 274-0265

Founded: 1903 Standards Staff: 1

**Type of
Organization**

Trade Association.
Standards Developer.

**Standards
Development**

standards developer since 1933.

**Standards
Designation**

FTC rules for the jewelry industry.

**Government
Adoption**

Current rules adopted 1957, amended 1959.

Secretariats

Jewelers Vigilance Committee.

Scope

A national education and information organization for jewelry and silver product manufacturers.

**Standardization
Activities**

Engaged in marking, stamping, nomenclature, precious metals, semiprecious metals, stones, pearls, country origin marks, and related practices. Industry committees agree on proper standards in keeping with the U.S. National Stamping Act. These proposals are submitted to FTC for inclusion into "rules for the jewelry industry." Rules are generally enforced by FTC, periodic checks of merchandise are made by MJSA and JVC to assure that the standards are being properly followed.

Availability

Distributed through the Federal Trade Commission.

Keywords

jewelry; precious metals; precious stones; gold; silver; materials; consumer products;

MARBLE INSTITUTE OF AMERICA

Pennie Sabel, Managing Director

30 Eden Alley
Suite 201
Columbus, Ohio 43215
(614) 228-6194
Founded: 1907

FAX: (614) 228-7434

Type of Organization Trade Association.
Works through other organizations to develop standards.

Representation ASTM C18 Dimension Stone Committee.
ANSI A108.1 Installation of Ceramic and Marble Tile;
Installation Materials.
ASTM E06 Performance of Building Construction.

Scope Objective is to encourage increased usage of dimension stone in North America. Membership composed of producers, fabricators, importers, exporters, sales agents, distributors, finishers, installing contractors, and those who sell products and services to the industry.

Standardization Activities Helps establish standards for dimension stone through ANSI and ASTM committees. Promotes quality of workmanship; publishes design manual and color reference volumes.

Formerly Merger of National Association of Marble Dealers and National Association of Marble Producers (1944)

Keywords marble; granite; limestone; sandstone; slate; bluestone; quartzite; dimension stone; building; furniture; materials;

MARKING DEVICE ASSOCIATION

David G. Lister, Managing Executive

435 North Michigan Avenue
Suite 1717
Chicago, Illinois 60611
(312) 644-0828
Founded: 1910

FAX: (312) 644-8557
Standards Staff: 1

Type of Organization Trade Association.
Standards Developer.

Scope Manufacturers of marking devices including rubber and metal stamps, name plates, and seals.

Standardization Activities Prepares standards for various kinds of metal marking tools and dies. Included are standards for size and depth of marking characters, styles of symbol stamps, stock sizes for various stamp blanks. Other standards in use include those for bores and keyway sizes for roll dies, roller die blanks, and type and type holders for interchangeable steel type.

Develops standard terminology for all kinds of marking devices, including metal marking tools and dies, rubber stamps, seals, stencils, and marking inks.

Availability Distributed directly.

Keywords marking devices; stamps; stencils; seals; inks; office products; manufacturing;

MASONRY AND CONCRETE SAW MANUFACTURERS INSTITUTE

J. Jeffrey Wherry, Executive Director

30200 Detroit Road
 Cleveland, Ohio 44145
 (216) 899-0010

FAX: (216) 892-1404

Founded: 1981

Standards Staff: 3

Type of Organization

Trade Association.
 Standards Developer.

Standards Designation

ANSI B7.5.

Scope

Membership consists of manufacturers of conventional abrasive blades, masonry saws, concrete saws, diamond wheels, and others.

Standardization Activities

Develops safety standards for the use of masonry and concrete saws. Works with ANSI and promulgates its documents through the Grinding Wheel Institute's Accredited Standards Committee B7.

Developed the ANSI Safety Code for The Construction Use and Care of Gasoline Powered, Hand Held, Portable, Abrasive, Cutting Off Machines.

Availability Distributed directly and through ANSI.
Keywords abrasive blades; diamond wheels; masonry saws; concrete; industrial equipment;

MATERIAL HANDLING INDUSTRY

A.L. Leffler, Chief Executive Officer

8720 Red Oak Boulevard, Suite 201
Charlotte, North Carolina 28217
(704) 522-8644 FAX: (704) 522-7826

Founded: 1945 Standards Staff: 5

Type of Organization Trade Association.
Standards Developer.

Representation ANSI.

Secretariats (Under ANSI) ISO/TC 122.

Scope Represents approximately 600 manufacturers of industrial material handling equipment used in plants, plant-yards, piers, terminals, and warehouses.

Standardization Activities Product Sections, through Engineering Committees, develop source material for adoption as American National Standards under the canvass procedure of the American National Standards Institute.

Availability Through ANSI.

Formerly Material Handling Institute

Keywords material handling; industrial equipment;

MATERIALS AND METHODS STANDARDS ASSOCIATION

Harvey J. Powell, President

Post Office Box 350
Grand Haven, Michigan 49417
(616) 842-7844 FAX: (616) 842-1547
Founded: 1962 Standards Staff: 5

Type of Organization Trade Association.
Standards Developer.

Standards Development 45 members active in standards development.

Scope Establishes standards of quality and performance of materials and methods for installation and use of ceramic tiles.

Standardization Activities Member of ANSI A108 and ANSI A137-1 Committees; member of Tile Council of America Handbook for Ceramic Tile Installation Committee; issues bulletins on the installation of ceramic tiles.

Availability Distributed directly.

Formerly Methods and Materials Standards Association.

Keywords tile; mortar; building; materials; ceramic products;

MECHANICAL CONTRACTORS ASSOCIATION OF AMERICA

James R. Noble, Executive Vice President

1385 Piccard Drive
 Rockville, Maryland 20850
 (301) 774-1878 FAX: (301) 990-9690

Founded: 1889

Type of Organization Trade Association.
 Works through other organizations to develop standards.

Scope A construction trade association of 1400 firms employing approximately 150 000 persons. Members build and service systems that move both liquid and gas fluids. These mechanical contractors fabricate and install heating, ventilating, air conditioning, plumbing, and process piping systems in multi-residential, commercial, public industrial, and institutional facilities.

Standardization Activities Participates in national standards development with American National Standards Institute (ANSI); American Society of Mechanical Engineers (ASME); National Safety Council (NSC); American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE); American Welding Society (AWS); for development of consensus standards related to heating, ventilating, air conditioning (HVAC), plumbing, piping, welding, safety, and other construction-related topics. MCAA is a co-sponsor of ANSI A40, Safety Requirements for Plumbing.

Keywords heating; piping; ventilating; air-conditioning; plumbing; welding; safety; construction; building;

MECHANICAL POWER TRANSMISSION ASSOCIATION

Robert A. Reinfried, Executive Director

9384-D Forrestwood Lane
Manassas, Virginia 22110

(703) 330-7079

FAX: (703) 330-7984

Founded: 1933

Standards Staff: 1

**Type of
Organization**

Trade Association.
Standards Developer.

**Standards
Development**

Standards developer since 1936.
Thirteen member companies participate in standards activities.
Standards processed through ANSI.

**Standards
Designation**

MPTA and RMA/MPTA prefixes.

Scope

Manufacturers of multiple V-belt drive sheaves for mechanical
power transmission machinery.

**Standardization
Activities**

Concerned with the development of standards and other
programs concerning V-belt drive systems and devices, variable
speed drives, synchronous drives, and other belt drives.
Maintains liaison with the Rubber Manufacturers Association.
V-belt and synchronous drive standards are developed in liaison
with RMA.

Availability

V-belt drive standards are available through RMA.

Formerly

Multiple V-Belt Drive and Mechanical Power Transmission
Association

Keywords

belt drives; machinery; industrial equipment;

METAL BUILDING MANUFACTURERS ASSOCIATION

Charles M. Stockinger, General Manager

1300 Sumner Avenue
Cleveland, Ohio 44115-2851

(216) 241-7333

FAX: (216) 241-0105

Founded: 1956

Standards Staff: 3

**Type of
Organization**

Trade Association.
Standards Developer.

Scope Promotes the uses of metal buildings; deals with technical and trade promotional problems pertinent to the industry; compiles and publishes information of benefit to the industry and others interested in metal buildings; cooperates in the adoption and maintenance of standards for metal buildings.

Standardization Activities A Technical Committee prepares recommendations concerning such projects as methods used in application of design loads, recommended minimum thicknesses of steel used in manufacturing metal buildings in order to assure proper service, and other general recommendations for use by model code bodies in preparing or revising these codes to have properly constructed metal buildings. Works in conjunction with the American Iron and Steel Institute, model code bodies, the American Institute of Steel Construction, and other code committees to assure users that proper installations are made.

Availability Distributed directly.

Keywords metal buildings; building; structures;

METAL LADDER MANUFACTURERS ASSOCIATION

R. L. Werner, Secretary
P.O. Box 580, Osgood Road
Greenville, Pennsylvania 16125
(412) 588-8600
Founded: 1949

Type of Organization Trade Association.
Standards Developer.

Scope Manufacturers of light metal ladder products. Promotes standardization and simplification of products, sizes, and dimensions to eliminate waste and reduce cost. Conducts safety research.

Standardization Activities Works on ANSI code committees for ladders, stages, and scaffolds. Promulgates safety standards pertaining to products manufactured by its members. Active on ANSI committees for portable metal ladders; mobile scaffolds, ladder towers and telescopic work platforms; construction code; and temporary scaffolding.

Availability Sold directly and through ANSI.

Keywords metal ladders; ladders; planks; scaffolds; industrial equipment; consumer products;

METAL POWDER INDUSTRIES FEDERATION

Donald G. White, Executive Director

105 College Road East
Princeton, New Jersey 08540-6692
(609) 452-7700 FAX: (609) 987-8523

Founded: 1945 Standards Staff: 3

Type of Organization

Trade Association.
Standards Developer.

Standards Development

More than 100 active standards.
One processed through ANSI.

Scope

Serves technical and trade interests of metal powder producing and consuming industries. Composed of the Metal Powder Producers Association, Powder Metallurgy Parts Association, Powder Metallurgy Equipment Association, Refractory Metals Association, Metal Powder Technology Association and Metal Injection Molding Association.

Standardization Activities

Issues materials and test standards in the field of power metallurgy dealing with ferrous and nonferrous materials, including self-lubricating bearings metal injection mold products and industry practices. Jointly issues safety standard for metal powder compacting presses with ANSI. Maintains a Standards Board and four standards committees to coordinate its activities. Reviews federal specifications issued by the General Services Administration. Participates on ISO Committee TC 119; ASTM; and SAE; and AGMA powder metal committee 4f; Metal Powder, and Metal Powder Products.

Availability

Distributed directly.

Formerly

Metal Powder Association (1957)

Keywords

metal powder; powder metallurgy; metallurgy; materials; bearings; compacting presses; metal injection molding;

METAL TREATING INSTITUTE

M. Lance Miller, Executive Director

302 Third Street
Suite One
Neptune Beach, Florida 32233
(904) 249-0448 FAX: (904) 249-0459
e-mail: metaltreat@aol.com

Founded: 1933 Standards Staff: 2

Type of Organization. Trade Association.
Standards Developer.

Standards Development Standards developer since 1975.
None processed through ANSI.

Standards Designation MTI-2000, Quality Assurance Specification for
Performance of Heat Treating Processes.

Scope Firms engaged in commercial heating of metals, tools, and other
metal products. Conducts regional and national meetings for
exchange of information; acts for its members in national affairs
affecting the industry.

Standardization Activities Prepared a set of quality assurance standards which
outlines a standard of good process and equipment control and
provides customers with specific and meaningful criteria for
comparing or evaluating equipment, processes, process controls,
and record keeping systems in the heat treating facility where
this standard is employed. Also provides procedures which
establish a measure of uniformity among its users so that customer
surveys may be made more quickly with better comparability and
consistency.

Availability Sold directly.

Keywords metal treating; heat treating; manufacturing; materials;

MONORAIL MANUFACTURERS ASSOCIATION

Claude G. Carraux, Managing Director

8720 Red Oak Boulevard
Suite 201
Charlotte, North Carolina 28217
(704) 522-8644 FAX: (704) 522-7826

Founded: 1933 Standards Staff: 2

Type of Organisation Trade Association.
Standards Developer.

Standards Development Standards Developer since 1933.
Ten member companies participate in standards activities.
Two active standards; both processed through ANSI.

Standards Designation ANSI MH27.1 and ANSI B30.11.

Scope Manufacturers of overhead, underhung, material handling equipment including monorails, stacker cranes, and underhung traveling cranes.

Standardization Activities Works with ASME, ANSI, American Welding Society, American Foundrymen's Society, and others to develop design and safety standards and specifications for underhung cranes and monorail systems.

Availability Sold directly and through ANSI.

Keywords monorail; underhung crane; industrial equipment;

MULTI-HOUSING LAUNDRY ASSOCIATION

David L. Goldenberg

4101 Lake Boone Trail
Suite 201
Raleigh, North Carolina 27607
(919) 787-5181 FAX: (919) 787-4916

Founded: 1959

Type of Organization Trade Association.
Works through other organizations to develop standards.

Representation ANSI, the International Conference of Building Officials (ICBO), the Building Officials Code Administrator (BOCA), the Southern Building Code Congress (SBCCI), the International Association of Plumbing and Mechanical Officials (IAPMO), and the U.S. Department of Housing and Urban Development.

Standards Development MLA first began working on the development of standards in 1968 when, in conjunction with the U.S. Federal Housing Administration's Office of Technical Standards, Department of Housing and Urban Development, they developed and published a Laundry Guide, that set out technical standards and recommendations for location, design and layout of common area

laundry rooms in multi-family housing. MLA members are involved in four active standard: American National Standard on Accessible and Useable Buildings and Facilities, CABO/ANSI A117.1; Fair Housing Accessibility Guidelines issued by the Department of Housing and Urban Development; MLA Laundry Guide; and Plumbing Codes developed by IAPMO, ICBO, BOCA and SBCCI.

Government Adoption

Standards and recommendations on standards are submitted to federal agencies with regulatory authority over housing, including the Department of Housing and Urban Development and the Architectural and Transportation Barriers Compliance Board.

Certification

No certification, qualification or accreditation programs

Scope

MLA is an association of approximately 100 companies that purchase, install and service laundry room equipment in a variety of multi-family dwellings, including apartment buildings, military bases and college dormitories. MLA serves its members by collecting and disseminating information about significant developments in products, equipment, laundry room design, legal and management issues relevant to improving the quality of the services provided by association members. This work has included participation in the development of guidelines and standards that pertain to laundry room design and management.

Standardization Activities

MLA works with other standards setting organizations, including ANSI, and federal and state government agencies, to evaluate, provide technical advice and recommendations on standards for design, layout and management of common area laundry rooms in multi-family housing facilities.

Availability

Distributed directly.

Formerly

National Association of Coin Laundry Equipment Operators, Inc.

Keywords

laundry; clothes; washer; washing machine; dryer;

NACE INTERNATIONAL

Helena Buist, Director, Technical Activities Division

P.O. Box 218340
Houston, Texas 77218
(713) 492-0535 FAX: (713) 492-8254
e-mail: 75357,243@compuserve.com

Founded: 1943 Standards Staff: 5

**Type of
Organization**

Technical Society
Standards Developer

**Standards
Development**

Standards developer since 1969.
3300 members participating in standards activities.
100 active standards, conversion to metric ongoing.
3 processed through ANSI.
Draft standards available for review to members.

**Standards
Designation**

NACE MR, Material Requirement (such as MRO175).
NACE TM, Test Methods (such as TMO284).
NACE RP, Recommended Practice (such as RPO285).
NACE EG, Emergency Guideline (such as EG-1).

**Government
Adoption**

Several standards are referenced in state and federal regulations.

Certification

Professional recognition program with five categories, each of which is designed to recognize levels in corrosion work; one category is for coating inspectors (certification program is not directly tied to standards program).

Secretariats

U.S. Technical Advisory Group, ISO/TC 35/SC 12, Preparation of Steel Surfaces before Application of Paint and Related Products, and ISO/TC 35/SC 14 on Anti-Corrosive Paint Systems for Steel Structures.

Scope

Assists the public and industrial communities to conserve energy and materials through corrosion control and materials selection. Provides a forum for the presentation of new technology and evaluation of existing technology; publishes literature and software concerned with the science and engineering of corrosion; supports the needs of other learned societies by supplying information regarding the science and engineering of corrosion control and materials selection; establishes and publishes technical standards and practices to guide producer and user industries; promotes the recognition of corrosion engineering as a profession by means of education, accreditation, and certification programs.

Standardization Activities Standardization activities accomplished through approximately 350 technical committees which are composed of representatives from industries in which corrosion is a problem. Identifies corrosion problems and solutions and assembles information to define the problems. Develops standards which are reviewed by interested industry parties. Standards represent a consensus of persons substantially concerned with their subjects.

Makes concerted efforts to involve other technical societies in relevant standardization activities through formal liaison.

Primary focus on standardization has been related to development of performance standards. Standards have been proposed regarding performance (resistance to corrosion) of offshore steel platforms, performance of cathodic protection systems, and performance of materials in corrosive environments.

Availability Distributed directly, and through IHS, CSS, and American Technical Publishers.

Formerly National Association of Corrosion Engineers (1994)

Keywords corrosion; materials; coatings; pipeline;

NATIONAL AIR DUCT CLEANERS ASSOCIATION

Kenneth M. Sufka, Executive Director

1518 K Street, NW
 Suite 503
 Washington, DC 20005
 (202) 737-2926 FAX: (202) 347-8847

Founded: 1989 Standards Staff: 4

Type of Organization Trade Association
 Standards Developer

Standards Development Standards Developer since 1989.
 Association Standards Council consists of five Project Committees.

Standards Designation NADCA Standard 1992--1, Mechanical Cleaning of Non-Porous Air Conveyance System Components.

Government Adoption Widely specified in Army, Navy and other government agency project specifications

Scope A nonprofit organization of qualified HVAC system cleaning companies. Promotes professional standards for the industry and public education of the dangers of poor indoor air quality. Represents its membership at national and international levels.

Standardization Activities Activities directed toward fulfilling the minimum requirements for total HVAC system cleaning. NADCA Standard 1992-01 (performance standard for the HVAC system cleaning industry) is currently the only standard addressing HVAC system hygiene.

Availability Sold directly.

Keywords HVAC systems; air handling; mechanical hygiene; air duct cleaning;

NATIONAL ARBORIST ASSOCIATION

Robert Felix, Executive Vice President

Route 101, Box 1094
 Amherst, New Hampshire 03031-1094
 (603) 673-3311 FAX: (603) 672-2613
 e-mail: 76142.463@COMPUSERVE.COM

Founded: 1938 Standards Staff: 2

Type of Organization Trade Association
 Standards Developer

Secretariat ANSI A300, American National Standard for Tree Care Operations - Tree, Shrub and Other Woody Plant Maintenance - Standard Practices.

Scope A trade association of more than 1000 commercial tree service firms. A strong supporter of the voluntary standards system.

Standardisation Activities Instrumental in the development of ANSI Z133.1, American National Standard for Tree Care Operations - Pruning, Trimming, Repairing, Maintaining, and Removing Trees, and Cutting Brush - Safety Requirements, and all five of its revisions.

Keywords trees; safety;

NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS

A. L. Sisco, Executive Vice President

11 South LaSalle Street
Suite 1400
Chicago, Illinois 60603
(312) 201-0101 FAX: (312) 201-0214

Founded: 1937 Standards Staff: 2

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Eleven standards
Two processed through ANSI.

**Standards
Designation**

NAAMM Standard, NAAMM Recommended Voluntary Standard,
ANSI/NAAMM prefix.

Scope

A nationwide association of fabricators of architectural, commercial, residential, ornamental, miscellaneous, and hollow metal products. Promotes mutual interests and cooperation among members of industry; promotes educational and informational activities; compiles and disseminates statistics; furnishes technical information to architects and engineers; maintains and improves technical standards of the industry; conducts studies and surveys to increase the use of the markets for industry products; promotes and assists in the development of new products.

**Standardization
Activities**

Five divisions active in standards activities including Architectural Metal Products Division, Flagpole Division, Hollow Metal Manufacturers Association Division, Metal Bar Grating Division, and Metal Lath/Steel Framing Association Division. Voluntary standards and specifications developed for metal stairs, metal stair railings, pipe railings, flagpoles, hollow metal doors and frames, metal bar grating, metal lath and plaster assemblies and lightgauge steel framing which are widely accepted by architects, engineers, specification writers, code groups, and government agencies.

Publishes the Metal Stair Manual, Metal Finishes Manual, Pipe Railing Manual, Metal Flagpole Manual, Guide Specification for Design Loads of Metal Flagpoles, Hollow Metal Manual, Metal Bar Grating Manual, Heavy Duty Metal Bar Grating Manual, Welding Standard for Fabrication of Metal Bar Grating, Specifications for Metal Lathing & Furring and Lightweight Steel Framing Systems Manual. Also revises and updates standards on a regular basis. Also provides representation to ASTM committees where appropriate to the development of performance and testing standards.

Availability Distributed directly.

Formerly National Association of Ornamental Metal Manufacturers. Absorbed the National Steel Door and Frame Association (1962)

Keywords architectural metals; stairs; railings; bar-gratings; flagpoles; doors; door frames; building; light gauge steel framing; metal lath;

NATIONAL ASSOCIATION OF BROADCASTERS

Lynn Claudy, Vice President - Science & Technology

1771 N Street NW.
 Washington, DC 20036
 (202) 429-5346 FAX: (202) 775-4981

Founded: 1922 Standards Staff: 2

Type of Organization

Trade Association
 Standards Developer

Standards Development

Standards developer since 1941.

Standards Designation

NAB and NARTB prefixes.

Certification

No certification, qualification, or accreditation programs

Secretariats

NAB is the secretariat of the Advanced Television Systems Committee whose purpose is to coordinate the development of voluntary national standards for Advanced Television Systems in the United States. NAB is also secretariat of the National Radio Systems Committee (NRSC) whose purpose is to better the relationship between broadcasters and radio receiver manufacturers through technical improvements.

Scope

Represents membership of 5000 radio and over 900 television stations, including the major networks. Represents the industry before Congress, the White House, and federal regulatory agencies.

Standardization Activities

Maintains standards committees regarding the retention and review of existing NAB standards and practices. As a member of the Joint Committee on Inter-Society Coordination composed of the NAB, EIA, IEEE, NCTA, and SMPTE, the NAB participates in many

standards setting committees representing broadcasters and broadcasting interests. Standards pertain to radio and television technical improvements, and producing test records and CDS.

Availability Distributed directly.

Formerly National Association of Radio and Television Broadcasters (NARTB) (1951-1957)

Keywords disc recording; tape recording; cartridge tape; cassette tape; broadcast; advanced television systems; NRSC; AM engineering; FM engineering; technical improvement; communications;

NATIONAL ASSOCIATION OF CHAIN MANUFACTURERS

William F. Westerhold, Director

P O Box 3143
York, Pennsylvania 17402
(717) 840-1304

Founded: 1932 Standards Staff: 1

Type of Organization Trade Association
Standards Developer

Scope Eight manufacturers of welded chain, weldless chain, and tire chains. In addition to standardization, the Association promotes the use of chain and serves as a liaison in contacts with technical and professional groups and federal governmental agencies.

Standardization Activities The Association has two committees involved in various aspects of standards development and coordination. Along with development of industry standards, members of these groups serve on various standards setting bodies including ASTM, ASME, and others.

Formerly The Chain Institute

Keywords chain; tire chains; industrial equipment; transportation;

NATIONAL ASSOCIATION OF COUNTY ENGINEERS

Anthony R. Giancola, Executive Director

440 First Street, NW
Washington, DC 20001
(202) 393-5041 FAX: (202) 393-2630
e-mail: tonyg@spaceworks.com

Founded: 1956 Standards Staff: 2

Type of
Organization

Professional Society
Standards Developer

Scope

Identifies various technical and management problems common to most counties and documents their solutions. Conducts workshops and holds a Management Research Conference annually. Affiliated with the National Association of Counties.

Standardization
Activities

Publishes Action Guide Manuals which emphasize guidelines for county engineering management and procedures for simplified engineering and technical analysis. Subjects include: organization-personnel purchasing; cost records; advanced road programs; county planning; planning county road systems; solid waste management; traffic operations; maintenance management; public support; safety improvements; soils and sub soil conditions, pavement; and bridge management; maintenance; rehabilitation; purchasing; bridge inspection; soil erosion and water pollution prevention; aerial photography; drainage; travel generation; and subsurface soils exploration. Works closely with federal departments, the Transportation Research Board, and state agencies.

Availability

Distributed directly.

Keywords

county; government officials; construction; transportation; management;

NATIONAL ASSOCIATION OF GARAGE DOOR MANUFACTURERS

John H. Addinton, Executive Director

1300 Sumner Avenue
Cleveland, Ohio 44115-2851
(216) 241-7333 FAX: (216) 241-0105

Founded: 1968 Standards Staff: 3

Type of Organization Trade Association
Standards Developer

Standards Development Six active standards.
Two processed through ANSI.

Scope Promotes the quality and safety of sectional overhead type doors.

Standardization Activities Developed American National Standard, A216.1-1977 (NAGDM 102-1976), Specifications for Sectional Overhead Type Doors. Standard includes performance criteria and test methods for acceptable safety, quality, and durability of sectional overhead type doors intended for residential use and commercial or industrial use on garages, warehouses, service stations, and other places requiring doors generally used for vehicular traffic.

Availability Distributed directly and through ANSI.

Formerly Midwest Garage Door Manufacturers Association (1972)

Keywords doors; overhead doors; buildings;

NATIONAL ASSOCIATION OF GRAPHIC AND PRODUCT IDENTIFICATION MANUFACTURERS

James A. Kinder, Executive Vice President

17300 Redhill Avenue
Suite 100
Irvine, California 92714
(714) 261-9588 FAX: (714) 261-2594

Founded: 1951 Standards Staff: 2

Type of Organization Trade Association
Standards Developer

Standards Development Standards developer since 1969.

Standards Designation Nameplate Industry Standards and Practices.

Government Adoption Military Specifications for nameplates

Scope Membership accounts for approximately two-thirds of the total business volume of the name plate manufacturing industry in the United States. The term "name plate" refers to any metal or plastic plate that has been etched, embossed, stamped, engraved,

or imprinted and which is fastened to another object for purposes of identification, instruction, or decoration.

**Standardization
Activities**

Standards represent a relatively small but highly significant portion of the association's activities. In 1969 published Metal Name Plate Industry Standards and Practices, which was updated in 1987 under the name of Name Plate Industry Standards and Practices. This book is the only set of standards in existence for the industry in the United States. Among the subject areas covered are: nomenclature, finishes, fabrication tolerances, materials, fastening methods, inspection, reject procedure, delivery, and equipment preparation. Copies have been distributed throughout the industry and to customers of the industry in both private and public sectors for their information and use in writing specifications. The Book of Standards Committee is responsible for compiling and coordinating changes.

Availability

Available to GPI members only.

Formerly

National Association of Name Plate Manufacturers
National Association of Metal Nameplate Manufactures (1968)

Keywords

nam.plates; industrial equipment; office products; household appliances;

NATIONAL ASSOCIATION OF HOSIERY MANUFACTURERS

Sid Smith, President and CEO

200 North Sharon Amity Road
Charlotte, North Carolina 28211
(704) 365-0913 FAX: (704) 362-2056

Founded: 1905 Standards Staff: 1

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Designation**

Commercial Standards, CS prefix.

Scope

Composed of manufacturers who knit or otherwise process hosiery of any type. Develops standards for hosiery sizing, measurement, performance, and quality.

**Standardization
Activities**

Active in technical research leading to standards concerning size systems and terminology for various types of hosiery. NAIM Sizing Standard is an industry standard using body measurements for the sizing of men's, women's, and children's knee-high and shorter hosiery. Developed a simple method for use

in describing women's pantyhose in order to provide wearers with proper fitting garments. Instrumental in developing measurement standards.

Availability Distributed directly.

Keywords sizes; hosiery; clothing; consumer products;

NATIONAL ASSOCIATION OF INDUSTRIAL AND OFFICE PROPERTIES

Thomas J. Bisacquino, Executive Vice President

2201 Cooperative Way
3rd Floor
Herndon, Virginia 22071-3034
(703) 904-7100 FAX: (703) 904-7942

Founded: 1967 Standards Staff: 1

Type of Organization Trade Association
Works through other organizations to develop standards

Scope The National Association of Industrial and Office Properties (NAIOP) is the trade association for developers, owners, and investors in industrial, office and related commercial real estate. Founded in 1967, NAIOP is comprised of 5000 members in 51 North American chapters and offers its members business and networking opportunities, education programs, research on trends and innovations and strong legislative representation.

Standardization Activities Cooperates to develop and utilize standards in the areas of paved streets, utility systems for multiple users, setback or percentage coverage requirements, landscaping, offstreet parking, and architectural control.

Formerly National Association of Industrial and Office Parks

Keywords industrial parks; office parks; building; construction; facilities management;

NATIONAL ASSOCIATION OF JEWELRY APPRAISERS

James V. Jolliff, Executive Director

Post Office Box 6550
Annapolis, Maryland 21401
(301) 261-8270

Founded: 1901 Standards Staff: 3

Type of Organization Professional Association
Standards Developer

Standards Development Developer of Jewelry Appraisal Standards since 1981
600 members participating in standards activities related to minimum criteria in writing narrative appraisal reports.

Certification Certification of qualified and accredited member appraisers.
Correspondence course and testing of Certified Master Appraisal credential.

Scope A professional association exclusively devoted to the jewelry appraisal profession. The association functions on a national and international basis. Works to disseminate information through educational programs, improve methods of appraisal valuation, and share opinions on areas of common interest.

Standardization Activities The standardization activities of the association are directed toward user-defined requirements for the industry and those who require a professional opinion as to value. They are provided to members only.

Major activities include educational programs, Appraisal Forms, Related Work Sheets, and Terminology. New areas of standards which are applicable to the industry are being developed and reviewed.

Availability Distributed directly to members only.

Keywords jewelry appraisers; gems; diamonds; gemology; consumer products; gemological instruments and equipment;

NATIONAL ASSOCIATION OF MANUFACTURING OPTICIANS

William J. Flannery III, President

R. R. 2, Box 35 Q
Rockwall, Texas 75087
(214) 771-8848

FAX: (214) 722-8484

Founded: 1975

Standards Staff: 1

Type of Organization

Trade Association
Standards Developer

Scope

A nonprofit trade association of individuals and businesses engaged in the manufacture and production of prescription eyewear or related ophthalmic goods and services.

Standardization Activities Dedicated to standards development through regulation, legislation, and education of the public. Cooperates with ANSI, the Total Ophthalmic Community Conference, ISO. Developed a bar code for optical products.

Availability Distributed directly.

Keywords ophthalmology; optician; optics; ophthalmic products;

NATIONAL ASSOCIATION OF PHOTOGRAPHIC MANUFACTURERS

John Gignac, Director - National Standards

Eduard R. Scherrer, Director - International Standards

550 Mamaroneck Avenue
 Suite 307
 Harrison, New York 10528-1612
 (914) 698-7603 FAX: (914) 698-7609
 e-mail: natlstds@aol.com

Founded: 1946 Standards Staff: 1 full-time
 3 part-time

Type of Organization Trade Association
 ANSI accredited Standards Developer

Standards Development 526 members active in standards development.
 189 active international standards.
 285 ANSI approved standards.
 ANSI accredited organization.

Standards Designation ASC/PH prefix.
 ASC/IT prefix.
 ANSI/NAPM IT.

Secretariats NAPM/IT 1, Photographic Films, Plates, and Papers
 NAPM/IT 2, Image Evaluation
 NAPM/IT 3, Photographic Equipment
 NAPM/IT 4, Photographic Processing
 NAPM/IT 7, Instructional Audiovisual Systems Standards
 NAPM/IT 9, Physical Properties and Permanence of Imaging Materials
 NAPM/IT 10, Electronic Still Picture Imaging
 NAPM/TC 11, Optics and Optical Instruments
 NAPM/TC 12, Imaging Materials Recyclability
 ISO/TC 42, Photography
 U.S. Technical Advisory Group ISO/TC 42
 U.S. Technical Advisory Group ISO/TC 172

Scope An association for manufacturers of image technology products. Promotes and encourages a wider understanding and appreciation of image technology, and a greater use of image technology products worldwide.

Standardization Activities Promotes standardization of all photographic products, and methods of testing product performance. Ensures interchangeability and compatibility of photographic components and materials.

NAPM is an ANSI Accredited Standards Development Organization under the ANSI Organization Method. It provides the Secretariat support for nine Technical Committees involved in the development of National standards primarily in the field of imaging through photo-chemical, electronic and hybrid technologies. This includes all related system aspects of imaging and media and includes interfacing, transcoding and accompanying signals.

NAPM also acts as the Secretariat for the International Organization for Standardization (ISO) Technical Committee 42 on Photography. In addition, NAPM sponsors the United States Technical Advisory Groups (TAGs) responsible for developing the United States national body positions for input to ISO/TC 42 and ISO/TC 172 on Optics and Optical Instruments.

The overall standards program is managed by the NAPM Standards Advisory Committee (SAC) which reports directly to the NAPM Board of Directors.

International activities include developing international photographic standards under ISO procedures, and maintaining close liaison with other international standards developing organizations in allied fields. Promotes participation in the activities of the International Electrotechnical Commission (IEC) through NAPM's domestic and international standards committee secretariats.

Availability Draft standards distributed directly.
Published standards distributed through ANSI.

Keywords image technology; photography; photographic products; photographic optics; x-ray; film; photographic accessories; electronic imaging;

NATIONAL ASSOCIATION OF PIPE COATING APPLICATORS

Merritt B. Chastain, Jr., Managing Director

Commercial National Bank Building
333 Texas Street
Suite 717
Shreveport, Louisiana 71101-3666
(318) 227-2769 FAX: (318) 222-0482

Founded: 1965 Standards Staff: 8

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1965
One hundred twenty companies participate in standards activities; continuously reviewed and revised. None processed through ANSI. Draft standards available for review by members.

**Standards
Designation**

NAPCA Bulletin.

Scope

The trade association for the plant pipe coating application industry. Comprised of companies engaged in application of protective coatings to steel pipe in permanent plants and those engaged in the manufacture or sale of materials, supplies, equipment, or services, and those utilizing coating products. Promotes the general welfare of the industry, stimulates the use of coating and related materials, standardizes and improves specifications and materials, aids consumers and manufacturers in their coating material research, cooperates with other industries and organizations, and disseminates information to its members, its customers and the public.

**Standardization
Activities**

Develops and revises pipe coating application specifications, standards, and suggested procedures. Publishes Pocket Edition of National Association of Pipe Coating Applicators Specifications and Plant Coating Guide which contains current and revised specifications. Most recent revisions completed in 1994.

Availability

Distributed directly.

Keywords

pipe coating; corrosion protection; insulation; coating; construction;

NATIONAL ASSOCIATION OF PLUMBING-HEATING-COOLING CONTRACTORS

Allen Inlow, Chief Executive Officer

180 South Washington Street
Post Office Box 6808
Falls Church, Virginia 22046-1148
(703) 237-8100 FAX: (703) 237-7442

Founded: 1883 Standards Staff: 2

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

In addition to publishing and maintaining the National Standard Plumbing Code (NSPC) the NAPHCC participates in many national consensus committees (i.e., Fuel Gas Code, Backflow Prevention, and other related activities) for the continued development of safe and sanitary plumbing and mechanical systems.

Representation

ANSI Committees A119, B16, B31; Z223, Fuel Gas Code; ASTM, IAPMO, GSA, and UL

**Government
Adoption**

The NSPC is adopted and referenced by many federal agencies, including but not limited to the Department of Housing and Urban Development, the Army Corps of Engineers, the Department of Navy, and other agencies promulgating the use of construction standards.

Secretariats

Co-secretary of ANSI accredited committee A40, Safety Requirements for Plumbing.

Scope

The scope of the NSPC and ANSI A40 Plumbing Codes stipulate in part: "The development of a recommended code of plumbing practice, design, and installation, including the establishment of performance criteria predicated on the need for protection of health and safety through proper design, installation, and maintenance of plumbing systems. This scope excludes the development of specific standards related to the composition, dimensions, and/or mechanical and physical properties of materials, fixtures, devices, and equipment used or installed in plumbing systems."

**Standardization
Activities**

The NAPHCC standards activities include the development and maintenance of a consensus plumbing code, including the technical and administrative support of the consensus committee.

Availability

Sold directly and through ANSI.

Formerly National Association of Master Plumbers (1962)
Keywords plumbing; heating; air-conditioning; sanitation and safety;

NATIONAL ASSOCIATION OF PUNCH MANUFACTURERS

Alan M. Hamilton, Executive Secretary

7402 Chestnut Ridge Road
Lockport, New York 14094
(716) 433-2917 FAX: (716) 433-2917

Founded: 1963 Standards Staff: 1

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Started to develop standards in 1963.
22 participating members.
31 standards, 18 inch-based and 13 metric.
All are processed through ANSI.
Draft standards are available through ASME and ANSI.

**Standards
Designation**

ANSI B94.X.

Certification

None.

Scope

Devoted to standardization of all punches, dies, and retainers used in custom made dies by various companies for the stamping industry. Piercing components are chosen for standardization and standards developed, then are recommended to American Society of Mechanical Engineers International for review, approval and recommendation to American National Standards Institute. ANSI piercing components standards are used by North American die building and stamping industries.

**Standardization
Activities**

Piercing components for custom made stamping dies are chosen for standardization. The NAPM Standards Committee then researches common usage and determines the best range of sizes and tolerances to fit the users' requirements. These standard recommendations are presented to B-94 of ASME International for circulation to a wide range of makers and users. There are 31 standards in the inch and metric systems in use for present day usage. These standards are available to ISO for international usage.

Availability Available through ANSI.
Keywords punches; tools; die components;

NATIONAL ASSOCIATION OF PURCHASING MANAGEMENT

R. Jerry Baker, Executive Vice President

2055 East Centennial Circle
Post Office Box 22160 - 85284
Tempe, Arizona 85285-2160
(602) 752-6276 FAX: (602) 752-7890
WWW: <http://www.NAPM.org>

Founded: 1915

Type of Organization Educational and Research Association
Works through other organizations to develop standards

Scope Provides national and international leadership in purchasing and materials management research and education. Provides opportunities for expansion of professional skill and knowledge. Encourages public understanding of the purchasing and materials management concepts.

Standardization Activities Promulgates standards through company standardization programs. Sponsors educational programs which are related to the broad field of standardization and simplification. In an effort to further advance sound principles of purchasing and to elevate the purchasing profession.

Formerly National Association of Purchasing Agents (1968)

Keywords purchasing; materials management; business;

NATIONAL ASSOCIATION OF RELAY MANUFACTURERS

D.E. Dangott, Executive Director

9459 N. Broadmoor Road
Milwaukee, Wisconsin 53217
(414) 351-4548 FAX: (414) 351-4548

Founded: 1947 Standards Staff: 2

Type of Organization Trade Association
Standards Developer

Recertifies model rocket motors every third year. Established a random sampling program to spot check motors for sale to consumers on hobby shop shelves. Maintains records of motor failures filed by its members, these records are provided to the manufacturers as input for product correction and development.

Scope A national hobby service organization for model rocketeers. Provides a monthly magazine, technical materials, liability insurance, and education programs for its members. Sanctions local clubs and local contests. Homologates national model rocket flight records. Serves as the U.S. Representative to the FAI CIAM Subcommittee on Space Models where it interacts internationally with other hobby organizations. Chairs the NFPA Committee on Pyrotechnics and works closely with the HIA to monitor state and national hobby legislation.

Standardization Activities Establishes standards of performance, reliability, and safety which are the basis for the NAR certification program.

Availability Distributed directly.

Formerly Model Missiles, Inc. (1958)

Keywords pyrotechnics; model rockets; aeromodeling; recreation; space models;

NATIONAL ASSOCIATION OF STATE TEXTBOOK ADMINISTRATORS

Linda Dierstein, President

Indiana Department of Education
Textbook Adoptions
State House, Room 229
Indianapolis, Indiana 46204
(317) 232-9127 FAX: (317) 232-9121

Type of Organization Professional Society
Standards Developer

Standards Designation NASTA prefix.

Scope Textbook/instructional materials directors of state education agencies responsible for the purchase and distribution of textbooks for schools.

Standardization Activities Works with an Advisory Committee which develops specifications for hard cover textbooks and non-print materials. Specifications cover margins, uniform labeling, paper, binding, and stitching. Cooperates with BMI (Book Manufacturer's Institute) and AAP (Association of American Publishers) to develop specifications. Publishes Manufacturing Standards and Specifications for Textbooks developed by a commission comprised of NASTA, BMI, and AAP.

Availability Distributed directly.

Formerly National Association of State Text Book Directors (25 years ago)

Keywords textbooks; book publishing; education;

NATIONAL ASSOCIATION OF STORE FIXTURE MANUFACTURERS

Klein Merriman, Executive Director

1776 N. Pine Island Road
 Suite 102
 Plantation, Florida 33322
 (954) 424-1443

FAX: (954) 473-8268

Founded: 1956

Standards Staff: 3

Type of Organization Trade Association
 Standards Developer

Standards Development Develops specifications for the manufacture of store fixtures.

Scope Represents over 500 fixture manufacturers in the United States, Canada and Mexico. The mission of NASFM is to raise the professional, educational and ethical standards of the store fixture manufacturing industry and to promote the value of members' products and services to their customers.

Standardization Activities The association publication "Specifications for the Manufacture of Store Fixtures" is periodically reviewed, updated and republished by the association.

Availability Distributed directly.

Keywords store fixtures; fixtures; retail; displays; merchandising;

NATIONAL AUTOMATED CLEARING HOUSE ASSOCIATION

Elliott McEntee, President and CEO

607 Herndon Parkway
Suite 200
Herndon, Virginia 22070
(703) 742-9190 FAX: (703) 787-0996

Founded: 1974 Standards Staff: 3

Type of
Organization

Trade Association
Standards Developer

Standards
Development

Standards developer since 1974

Scope

A national trade association involved in developing payments standards for automated clearing house (ACH) transactions. In 1994, the ACH Network processed more than 3 billion transactions for applications such as direct deposit, direct payment (preauthorized debits), corporate cash concentration, corporate trade payments, and financial electronic data interchange (EDI), thirty-eight member ACH Associations representing over 14 000 financial institutions. NACHA sponsors the Bankers EDI Council, Bill Payment Council, Cross-Border Council, Electronic Check Council, and the Electronic Benefits Transfer Council.

Standardization
Activities

Involved in developing standards for electronic transfers of funds and information. Develops and maintains rules governing the exchange of ACH transactions. Also, Councils develop issue specific rules, guidelines, and standards for financial EDI, electronic bill payment applications, cross-border ACH payments, electronic check truncation and clearing, and electronic benefits transfers.

Availability

Distributed directly.

Keywords

financial; direct deposit; direct payment; preauthorized debits; EDI; electronic bill payment; electronic checks; cross-border payments;

NATIONAL AUTOMATIC MERCHANDISING ASSOCIATION

Larry M. Eils, Director, Public Health and Safety

20 North Wacker Drive
Suite 3500
Chicago, Illinois 60606
(312) 346-0370 FAX: (312) 704-4140

Founded: 1936

Standards Staff: 1

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1959.
Three standards.

**Standards
Designation**

NAMA Standard for the Sanitary Design and Construction
of Food and Beverage Vending Machines (as amended, April, 1990).
NAMA Vending Industry Data Transfer Standard (as
amended, April, 1994).
NAMA International Multi-Drop Bus Interface Standard
(as amended August, 1994).

**Government
Adoption**

Adopted by many states, counties and municipalities
and, by reference, the Army, Air Force, and Navy. Results of
evaluation activity are recognized nationwide.

Certification

Evaluation and testing are conducted by retained consultants.
Reevaluation is conducted annually.

Scope

The national association of the vending and contract food service
industry. Membership includes national/regional/local operating
companies, machine manufacturers, distributors, and product sup-
pliers. Services include legislation, government relations, edu-
cation, conventions, state affiliate organizations, public rela-
tions, publications, and public safety.

**Standardization
Activities**

Maintains a 24-member Automatic Merchandising Health
Industry Council comprised of representatives from national public
health associations, state and local regulatory officials, federal
regulatory and military agencies, vending operators, machine
manufacturers and suppliers. Recommends to NAMA all administra-
tive policies and procedures and maintains the Construction
Standard used in the machine evaluation program. Works with
Underwriters Laboratories on UL standards 541 and 751.

Maintains a Vending Technology Standards Committee
comprised of software developers for vending,
manufacturers of control boards, coin mechanisms, bill
validators, card readers and vending machines and other
suppliers of electronic components to the industry.
Recommends to NAMA what changes need to be made to keep
the two electronic standards current.

Availability

Distributed directly.

Keywords vending; vending machine; automatic merchandising; food sanitation; public health; insurance; transportation; vehicle fraud; insurance fraud;

NATIONAL BARK AND SOIL PRODUCERS ASSOCIATION

Robert C. LaGasse, Executive Director

10210 Leatherleaf Ct.
Manassas, Virginia 22111-4245
(703) 257-0111 FAX: (703) 257-0213

Founded: 1971 Standards Staff: 1

Type of Organization

Trade Association
Standards Developer

Standards Development

Standards developer since 1972.

Scope

Represents producers of bark and soil products in the United States and Canada. Disseminates information about the use of products to horticulture firms, garden shops, and the public.

Standardization Activities

The industry forum for development of bark and soil product standards; works with other organizations, such as the National Conference on Weights and Measures to develop standards. Has defined ten product categories. Grade standards serve as guidelines for producers and are used on product bags as an indication of quality.

Availability

Distributed directly.

Formerly

National Bark Producers Association

Keywords

bark; mulch; soil; agriculture; compost;

NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS

Albert J. Justin, Executive Director

1055 Crupper Avenue
Columbus, Ohio 43229
(614) 888-8320 FAX: (614) 888-0750

Founded: 1919 Standards Staff: 12

Type of Organization

Professional Society
Standards Developer

Standards Designation National Board Inspection Code, (an ANSI Standard); National Board Boiler Blowoff Equipment; Relieving Capacities of Safety Valves and Relief Valves; Model Boiler and Pressure Vessel Laws.

Certification States, municipalities, and Canadian provinces that have boiler and pressure vessel laws recognize the National Board inspector's commission and National Board stamping of boilers and pressure vessels as meeting their safety law requirements for new construction. Transfer of such objects between states is facilitated by National Board stamping. Relieving capacities of safety valves and pressure relief valves as certified by the National Board is used by various state, municipal, and provincial jurisdictions to insure adequate volumetric relief of the pressurized medium in event of runaway conditions.

Secretariat The following ISO Committees: TC 185 Safety Devices for Protection Against Excessive Pressure, TC 11 Boilers and Pressure Vessels, and the National Board Inspection Code (NBIC)

Scope The National Board of Boiler and Pressure Vessel Inspectors represents the agencies empowered to assure adherence to the ASME Boiler and Pressure Vessel Construction Code and the NBIC. The National Board of Boiler and Pressure Vessel Inspectors' purpose is to promote safety through uniformity in the construction, installation, repair, maintenance, and inspection of boilers and pressure vessels.

Standardization Activities Promotes in the following areas of standardization: (1) boiler and pressure vessel law enforcement; (2) uniform boiler laws and rules throughout the jurisdiction of its members; (3) uniform qualifications for boiler and pressure vessel inspectors; (4) uniform stamping of boilers and pressure vessels that are inspected during construction by such boiler and pressure inspectors who hold valid National Board Commissions; and (5) uniform relieving capacity ratings of safety valves and pressure relief valves for boiler and unfired pressure vessel service.

Availability Distributed directly.

Keywords boilers; pressure vessels; safety valves;

NATIONAL BUILDING GRANITE QUARRIES ASSOCIATION

Kurt M. Swenson, Secretary

c/o Rock of Ages Corporation
369 North State Street
Concord, NH 03301
(603) 225-8397

FAX: (603) 225-4801

Founded: 1916

Standards Staff: 1

**Type of
Organisation**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1916.

Scope

A national trade association of companies involved in the quarrying and manufacture of granite for architectural applications. They represent their members in national and international areas of interest.

**Standardization
Activities**

Publishes Specifications for Architectural Granite annually. Specifications are reviewed and updated annually. Also provides listing of available types of granite from members classified by color, name, quarry location and quarrier. Also provides other assistance on architectural granite upon request.

Availability

Distributed directly.

Keywords

granite; building materials; architecture; architectural granite; building granite;

NATIONAL CARGO BUREAU

Capt. James J. McNamara, President

30 Vesey Street
New York, New York 10007
(212) 571-5000

FAX: (212) 571-5005

Founded: 1952

Standards Staff: 8

**Type of
Organisation**

Trade Association
Standards Developer

Certification

The bureau is authorized by the U.S. Coast Guard to certify the loading of bulk grain cargoes and to approve grain loading plans in accordance with current regulations. The Bureau is officially

recognized by the Coast Guard and the Department of Labor as a cargo gear certification agency.

Scope A nonprofit organization whose membership is comprised of persons prominently identified with steamship management or marine insurance underwriting organizations.

Dedicated to the safe loading, stowing, securing, and unloading of cargo and cargo containers on all vessels, and for the design, strength, safety, and suitability of cargo handling gear and cargo containers, including the security and integrity of containers.

Standardization Activities Assists the U.S. Coast Guard in administering the provisions of the Dangerous Cargo Act and the applicable regulations in Title 46, of the Code of Federal Regulations, Shipping, with respect to inspection of vessels for suitability for loading dangerous cargo; examination of stowage of dangerous cargo; making recommendations as to towage requirements of dangerous cargo; and issuance of certificate of loading setting forth that the stowage of dangerous cargo is in accordance with the regulations.

Participates in activities of the International Maritime Organization (IMO) by being active on the IMO Maritime Safety Committee, the Subcommittee on Containers and Cargos, and the Subcommittee on the Carriage of Dangerous Goods. This subcommittee revised the international regulations for the carriage of bulk grain.

Formerly Absorbed Bureau of Inspection of Board of Underwriters of New York; Board of Marine Underwriters of San Francisco (1952)

Keywords cargo handling; containerization; shipping; insurance; transportation;

NATIONAL CERTIFIED PIPE WELDING BUREAU

Jack Hansmann, Executive Secretary

1385 Piccard Drive
Rockville, Maryland 20850-4329
(301) 869-5800 FAX: (301) 990-9690

Founded: 1944 Standards Staff: 2

Type of Organization Trade Association
Works through other organizations to develop standards

Representation 20 members represented on standards committees of organizations such as ASME, ANSI, and AWS.

Scope A department of the Mechanical Contractors Association of America, Inc. Engages in research and educational work; supplies information and data on welding; creates a force of welders uniformly trained and qualified; and promotes, develops, and maintains the quality of welding in the piping industry.

Standardization Activities Cooperates with other organizations to provide guidance and input for the standards development process. Works toward development of uniform procedure specifications for welding methods.

Keywords pipe; welding; manufacturing;

NATIONAL CIVIC LEAGUE

Christopher Gates, President

1445 Market Street
 Suite 300
 Denver, Colorado 80202
 (303) 571-4343 FAX: (303) 571-4404

Founded: 1894 Standards Staff: 1

Type of Organization Research and Advocacy

Scope Civic leaders, educators, public officials, civic organizations, libraries, and businesses interested in improving state and local government and techniques of citizen action. Serves as a clearinghouse for information on state constitution, city and county charters, legislative apportionment, fiscal procedures, among others.

Standardization Activities Model laws devised, published, and distributed by this organization are intended to serve as standards and to stimulate uniformity in state, county, and city legislation. These include a model bond law, budget law, city charter (which provides the council-manager form of government), model county charter, election administration system, model real property tax collection law, registration system, model state constitution, and others.

Formerly National Municipal League/Citizens Forum on Self-Government
Keywords model laws; government; officials;

NATIONAL CLAY PIPE INSTITUTE

E. J. Sikora, Vice President

Post Office Box 759
253-80 Center Street
Lake Geneva, Wisconsin 53147
(414) 248-9094

Founded: 1944 Standards Staff: 2

**Type of
Organization**

Trade Association
Standards developer by working through ASTM

**Government
Adoption**

Federal agencies involved directly and indirectly in construction activities have adopted ASTM standards for Vitrified Clay Pipe and its installation.

Secretariats

ASTM Committee C-4.

Scope

An international trade association, representing the major U.S. manufacturers of Vitrified Clay Pipe, with Associate Members in several foreign countries. Renders engineering advisory services to design engineers, Government officials, and others. Conducts scientific research, national advertising, and public relations programs on behalf of the industry at various independent research laboratories and universities.

Publishes the Clay Pipe Engineering Manual for engineers, city and state officials, and architects. Also technical brochures of an educational nature relating to the use of Vitrified Clay Pipe in sanitary sewer systems.

**Standardization
Activities**

Active in the American Society for Testing and Materials. Assists in the development of federal specifications.

Availability

Sold directly.

Formerly

National Clay Pipe Manufacturers (1961)

Keywords

vitrified clay pipe; sewers; sanitation; construction;

NATIONAL CLAY POT MANUFACTURERS ASSOCIATION

Stone Manes, President

Post Office Box 485
Jackson, Missouri 63755
(314) 243-3138

FAX: (314) 243-3130

Founded: 1956

Standards Staff: 1

**Type of
Organization**

Trade Association
Standards Developer

Scope

A nonprofit corporation which acts to stimulate professional and public interest in the uses and advantages of clay flower pots and in modern techniques employed in their production.

**Standardization
Activities**

Develops standard sizes and shapes of clay flower pots manufactured in the United States.

Availability

Distributed directly.

Keywords

flower pots; planting; agriculture; horticulture; floriculture; retail;

NATIONAL COFFEE ASSOCIATION OF THE USA

George B. Boecklin, President

110 Wall Street
New York, New York 10005
(212) 344-5596

FAX: (212) 428-7059

Founded: 1911

Standards Staff: 1

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Scope

Green coffee importers, jobbers, brokers, and agents; instant coffee processors; roasters and allied coffee industries. Promotes sound business relations among members of the trade to increase coffee consumption.

**Standardization
Activities**

Representatives from member firms assist in development of Codex Alimentarius standards; U.S. Government and various other standards for purchasing.

Keywords

coffee; agriculture; beverages;

NATIONAL COIL COATERS ASSOCIATION

Glen R. Anderson, Executive Director

401 N. Michigan Avenue, 22nd Floor
Chicago, Illinois 60611

(312) 321-6894

FAX: (312) 321-6869

Founded: 1962

Standards Staff: 1

**Type of
Organization**

Trade Association
Standards Developer

Scope

Manufacturers of continuously coated metal coil, other than metal plated coil. Fosters development of standard test methods, exchanges technical information, collects statistics, and promotes coated coil.

**Standardization
Activities**

Maintains a Technical Section which works to develop test methods and evaluate new processes. Activities include accelerated testing, physical testing, and standards development in the areas of color, laminate, aluminum, and steel. Supports ASTM, ANSI, and AISI in this work. Publishes a Technical Manual and Bulletins.

Availability

Distributed directly.

Keywords

coil coating; metal coating; materials;

NATIONAL CONCRETE MASONRY ASSOCIATION

Mark B. Hogan, Vice President of Engineering

2302 Horse Pen Road
Herndon, Virginia 22071-3499

(703) 713-1900

FAX: (703) 713-1910

Founded: 1920

Standards Staff: 5

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Representation

All national model code organizations; ASTM committees and the standards committees of the Masonry Society, the American Concrete Institute and the American Society of Civil Engineers.

Scope

A nonprofit trade association representing concrete masonry manufacturers throughout the United States, Canada, and 21 other countries. Encourages development of the state-of-the-art and science of manufacturing concrete masonry; creates a standard of excellence in manufacturing; develops criteria for the proper use

of concrete masonry products and concrete pavers and encourages such use; and facilitates the interchange of practical knowledge among its members and related industries and organizations.

**Standardization
Activities**

Activities of the association are developed by the Technical Committees and are subject to approval by the Board of Directors. Maintains continuing liaison and participation in the standardization and specification activities of the major national code bodies in the United States, the American Society for Testing and Materials, the American Concrete Institute, American Society of Civil Engineers, Building Seismic Safety Council, American Institute of Architects and the Construction Specifications Institute. Liaison and product specification assistance conducted on a regular basis with agencies of the federal government and design firms.

Keywords

concrete masonry; building; construction;

NATIONAL CONFERENCE OF STATES ON BUILDING CODES AND STANDARDS

Robert C. Wible, Executive Director

505 Huntmar Park Drive
Suite 210
Herndon, Virginia 22070
(703) 437-0100

FAX: (703) 481-3596

Founded: 1967

Standards Staff: 4

**Type of
Organization**

Professional Society
Works through other organizations to develop standards

Representation

Delegates are governor-appointed representatives of the 50 states, the District of Columbia, and several territories. Members include state and local building officials, architects, engineers, developers, building contractors, manufacturers of industrialized/modular buildings and manufactured homes, and product manufacturers and suppliers.

Secretariat

Serves as the secretariat of the Industrialized Buildings Commission, the administrative arm of the Interstate Compact on Industrialized/Modular Buildings.

Scope

Promotes intergovernmental reform in the field of building codes and standards and development, acceptance, and use of innovative building materials and technology. Founded by a number of state governors interested in better coordination of state building code

and public safety activities. Party to an Executive Branch Agreement with the National Governors' Association and a Memorandum of Understanding with the National Institute of Standards and Technology.

**Standardization
Activities**

Responsible for the NCSBCS/ANSI A225.1-1994 Standard on Manufactured Home Installation, which may be obtained directly from the association. Through its delegates, participates in the development and maintenance of building codes and standards at the state level. Monitors the design and construction of manufactured housing nationwide under a contract with the U.S. Department of Housing and Urban Development. Works under a grant from the U.S. Department of Justice on accessibility issues. Provides state government with a voice in other standards writing organizations. Publishes the two-volume (state and city) Directory of Building Codes and Standards, the Introduction to Building Codes, and other reference works, all of which are available directly from the association.

Keywords

government; buildings; construction; manufactured homes; energy; safety; indoor air quality; accessibility;

NATIONAL COORDINATING COUNCIL ON EMERGENCY MANAGEMENT

Elizabeth B. Armstrong, CAE, Executive Director

7297 Lee Highway
Suite N
Falls Church, Virginia 22042-1707
(703) 533-7672 FAX: (703) 241-5603

Founded: 1952 Standards Staff: 1

**Type of
Organization**

Professional Society
Standards Developer

Scope

Membership consists of 1700 emergency management professionals from local, state and federal government; private industry; and the military.

**Standardization
Activities**

Established a voluntary certification program in 1993; development of the professional standards upon which the certification requirements are based was funded by the Federal Emergency Management Agency. The Certified Emergency Manager (CEM) designation is awarded to candidates who satisfy requirements in the areas of experience, references, education, training, professional contributions, and scenario essay response.

Availability Directly.

Formerly United States Civil Defense Council

Keywords emergency; disaster; preparedness; public safety;

NATIONAL CORRUGATED STEEL PIPE ASSOCIATION

Joseph B. Morris, Executive Vice President

1255 Twenty-third Street, NW
 Suite 850
 Washington, DC 20037
 (202) 452-1700 FAX: (202) 833-3636

Founded: 1955 Standards Staff: 1

Type of Organization

Trade Association
 Standards Developer

Standards Development

Standards developer since 1956.
 74 member companies participating in standards activities.
 5 active standards.
 None processed through ANSI.

Standards Designation

CSP prefix.

Scope

A national trade association that represents corrugated steel pipe fabricators, steel suppliers, and manufacturers of related products. Improves and expands the use of corrugated steel pipe and plate for culverts, sewers, bridges, subdrains, and other drainage facilities.

Standardization Activities

Maintains an active Technical Advisory Committee which develops CSP standards along with participating in and monitoring the work of other technical bodies such as ASTM, AASHTO, and AISI. Engineering organizations, specifying agencies, and users of corrugated steel pipe use standards. Widespread activities of the association make it possible for county, state, federal, city, consulting and other engineers, as well as construction personnel, to become thoroughly acquainted with design, use, installation, and acceptance of corrugated steel pipe throughout the United States.

Availability

Distributed directly.

Formerly National Corrugated Metal Pipe
Keywords culverts; sewers; bridges; construction;

NATIONAL COTTON COUNCIL OF AMERICA

Phillip C. Burnett, Executive Vice President
P.O. Box 12285
Memphis, Tennessee 38182
(901) 274-9030 FAX: (901) 725-0510
Founded: 1938 Standards Staff: 4

Type of Organization Trade Association
Works through other organizations to develop standards

Representation Members provide input or serve on various committees of standards developers, such as ASTM, ISO, AATCC, ACGIH, OSHA, CAL/OSHA, CPSC, EPA, and ANSI.

Secretariats Joint Cotton Industry Bale Packaging Committee (JCIBPC). NCCA is one sponsor of the International Cotton Calibrations Standards Committee.

Scope The National Cotton Council is the central organization of the United States cotton industry representing growers, ginners, warehousemen, merchants, cooperatives, manufacturers, and cottonseed crushers. It serves its members through programs of technical services, foreign operations, communications services, economic services, and legislation.

Standardization Activities Works with industry and government agencies in developing needed fiber/textile test methods, product standards, and safety/health environmental standards affecting the cotton industry. Develops specifications to improve the quality and protection of the American cotton bale and to improve its appearance and saleability in domestic and foreign markets. Sets cotton bale standards to guide handlers and processors in evaluating and communicating bale conditions. Through the JCIBPC, develops specifications for acceptable cotton bale packaging materials. These are adopted by reference by the Commodity Credit Corporation as a requirement for CCC loan eligibility.

Keywords cotton; bale packaging; fiber testing; cottonseed; textiles; safety environment; agriculture;

NATIONAL COTTONSEED PRODUCTS ASSOCIATION

Lynn A. Jones, Executive Vice President

P.O. Box 172267
Memphis, Tennessee 38187-2267
(901) 682-0800 FAX: (901) 682-2856

Founded: 1897 Standards Staff: 2

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

232 members actively participate in the use of NCPA
Trading Rules.

Scope

Virtually all contracts between members and between members and
non-members are subject to the provisions of the Trading Rules of
the National Cottonseed Products Association.

**Standardization
Activities**

Trading Rules provide for handling, sampling, and
analysis of cottonseed and cottonseed products and for handling
normal variation in quality and in actual delivery weights.
Trading rules, such as those for cottonseed oil trading rules,
relate final compensation to the yield or out-turn of refined oil
from the crude oil.

Availability

Distributed directly.

Keywords

cottonseed; edible oil; food; agriculture; vegetable oil;

NATIONAL COUNCIL FOR PRESCRIPTION DRUG PROGRAMS

Lee Ann C. Stember, President

4201 N. 24th Street
Suite 365
Phoenix, Arizona 85016
(602) 957-9105 FAX: (602) 955-0749
e-mail: NCPDP@NCPDP.org

Founded: 1977 Standards Staff: 14

**Type of
Organization**

Professional and Trade Association
Standards Developer

**Standards
Development**

NCPDP first started developing standards in 1977 with
the development of the Universal Claim Form. NCPDP has
approximately 1100 members of which approximately 250 actively
participate in the 11 work groups that establish the standards.

NCPDP has seven active standards and all draft standards are available for review by contacting NCPDP. NCPDP is in the process of applying for ANSI accreditation.

Standards Designation By name and version/release of the standard.

Government Adoption NCPDP standards have successfully been adopted through 37 state Medicaid agencies and continues to work with others in their implementation.

Certification None

Scope NCPDP creates and promotes prescription data interchange and processing standards to the pharmacy services sector of the health care industry, and provides a continuing source of accurate and reliable information that supports the diverse needs of its 1100 members.

Standardization Activities NCPDP's Telecommunication Standard, Version 3.2 is widely used in the industry and is expected to process over 1 billion claims in 1995. Other standards cover billing format, drug utilization review, magnetic stripe format, x12 implementation, and related topics.

Availability Distributed directly.

Keywords pharmaceutical claims processing; EDI; member enrollment; product identification; standard billing;

NATIONAL COUNCIL ON RADIATION PROTECTION AND MEASUREMENTS

W. Roger Ney, Executive Director

7910 Woodmont Avenue
Suite 800
Bethesda, Maryland 20814
(301) 657-2652 FAX: (301) 907-8768

Founded: 1964 Standards Staff: 3

Type of Organization Scientific Society
Standards Developer

Standards Development Recommendations developed since 1928.
75 published reports which contain recommendations.

Scope A nonprofit corporation which seeks to promulgate information and recommendations based on leading scientific judgment on matters of radiation protection and measurement and to foster cooperation among organizations concerned with these matters.

Standardization Activities Collects, analyzes, develops, and disseminates in the public interest information and recommendations about protection against radiation and radiation measurements, quantities, and units, particularly those concerned with radiation protection. Provides a means by which organizations concerned with scientific and related aspects of radiation protection and of radiation quantities, units, and measurements may cooperate for effective utilization of their combined resources. Develops basic concepts about radiation quantities, units, and measurements about the application of these concepts and about radiation protection. Cooperates with the International Commission on Radiological Protection, the International Commission on Radiation Units and Measurements, and other national and international organizations, governmental and private.

Maintains about 50 Scientific Committees to draft proposed recommendations.

Availability Distributed directly.

Formerly National Committee on Radiation Protection and Measurement
Advisory Committee on X-Ray and Radium Protection

Keywords radiation protection; radiation measurement; environmental; safety;

NATIONAL DIMENSION MANUFACTURERS ASSOCIATION

Steven V. Lawser, Executive Director

1000 Johnson Ferry Road
Suite A-130
Marietta, Georgia 30068
(770) 565-6660

Founded: 1929 Standards Staff: 1

Type of Organization Trade Association
Standards Developer

Standards Development Standards Developer since 1929.
All members participate in standards development.

Standards Designation NDMA.

Scope Objectives are to establish and maintain the rules and standards for the industry; conduct and stimulate trade promotion activities for the industry; and to hold educational plant tours and meetings that promote exchange of manufacturing techniques and ideas in the industry among its members.

Standardization Activities Cooperates with all lumber, furniture, cabinet and related wood using manufacturers/associations in bringing about standardization programs on grading rules for wood component products. Publishes the "NDMA Rules and Specifications for Dimension and Woodwork." These Rules are recognized by the National Hardwood Lumber Association, and are considered international in scope.

Formerly Hardwood Dimension Manufacturers Association

Availability Sold directly.

Keywords wood components; trim; stairs; furniture; cabinetry; woodwork; moulding;

NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION

H. Brooke Stauffer, Director, Codes and Standards

3 Bethesda Metro Center
 Suite 110
 Bethesda, Maryland 20814
 (301) 657-3110 FAX: (301) 215-4500

Founded: 1901

Type of Organization Trade Association
 Standards developer and works through other organizations to develop standards

Representation NECA participates in ANSI, NFPA and ASTM standards activities.

Standards Development NECA published its original Standard of Installation in 1962. NECA is currently applying for ANSI accreditation to develop a series of recommended installation practices for electrical products and systems.

Standards Designation NECA 1.

Government Adoption NECA's Standard of Installation is not adopted for regulatory use by federal agencies, or state and local governments.

Certification	NECA does not sponsor certification or accreditation programs.
Scope	A nationwide trade association representing the electrical contracting industry. Provides management services and labor relations programs. Sponsors research and educational programs; compiles statistics; conducts seminars.
Standardization Activities	Sets basic standards for electrical equipment and materials and methods of their installation. The NECA Technical Service maintains competent representation on interindustry and other standards agencies. NECA's Standard of Installation defines good workmanship and has been an authoritative guide to determine the "neat and workmanlike manner" requirements of the National Electrical Code. Prevents and reduces accidents by providing continuing information to its members on OSHA requirements.
Availability	Sold directly.
Keywords	electrical products; safety; installation;

NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION

Frank K. Kitzantides, Vice President, Engineering Department

1300 North 17th Street
Suite 1847
Rosslyn, Virginia 22209
(703) 841-3200 FAX: (703) 841-3358
e-mail: fra_kitzantides@nema.org

Founded: 1926 Standards Staff: 33

Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1926. 550 members participating in standards activities. 215 current standards. 40 standards recognized by ANSI. 5 standards endorsed by Electro Federation Canada. Draft standards distributed for user review.
Standards Designation	NEMA Standard, Suggested Standard for Future Design, Authorized Engineering Information, Official Standards Proposal.

Government Adoption 41 standards have been adopted by DoD.

Secretariats 24 ANSI committees dealing with electrical equipment
ISC/TC 184/SC 5; SC 2J; SC/15C; SC 22G; TC 37; SC 37B; TC 72.

Scope A trade association of manufacturers of equipment and apparatus used for the generation, transmission, distribution, and utilization of electric power. Membership comprises 630 electrical manufacturing companies in the United States. Membership is limited to corporations, firms, and individuals in the United States, Canada, and Mexico engaged in the manufacture or promotion of products included within 70 NEMA product subdivisions. Products include transformers, wire and cable, switchgear, industrial control and systems, lighting, building equipment, diagnostic imaging and therapy systems products and industrial automation equipment.

Standardization Activities Standards are designed and written to eliminate misunderstandings between manufacturers and users of electrical products and to provide for safety in the application of these products. Involves all interested parties in standards development and review. Cooperates with organizations such as the American Society for Testing and Materials, National Fire Protection Association, Underwriters Laboratories, the Institute of Electrical and Electronics Engineers, and others. Also cooperates with federal agencies.

Supports ANSI and has representation on standards committees and sponsors several of them. Also represented on ANSI Standards Boards and the Organizational Member Council. Participates in the International Electrotechnical Commission (IEC), the IEC System for Conformity Testing to Standards for Safety of Electrical Equipment (IECEE), and in the International Organization for Standardization (ISO).

NEMA also participates in the development of safety standards affecting electrical equipment. Cooperates with other branches of the industry in an effort to secure acceptance throughout the country of the National Electrical Code and the National Electrical Safety Code. Members also cooperate in an independent advisory capacity with the Underwriters Laboratories in the development of electrical safety standards.

Availability Sold directly by NEMA and through IHS, American Technical Publishers Ltd., and Global.

Formerly Formed by merger of Electrical Power Club and Associated Manufacturers of Electrical Supplies (1926)

Keywords electrical equipment; safety; machinery; medical equipment; industrial automation;

NATIONAL ELEVATOR INDUSTRY

Edward A. Donoghue, Consultant-Codes and Safety

185 Bridge Plaza
 No. Rm 310
 Port Lee, New Jersey 07024
 (201) 944-3211 FAX: (201) 944-5483

Founded: 1934 Standards Staff: 1

Type of Organisation

Trade Association
 Standards Developer

Standards Development

Standards developer since late 1950's. 100 members participating in Code and Standards activities pertaining to elevators, escalators, dumbwaiters, and moving walks.
 Two active standards.
 None processed through ANSI.

Standards Designation

Vertical Transportation Standard.

Secretariats

U.S. TAG for ISO/TC 178, Lifts and Escalators

Scope

Promotes the interests of its members by acting as representative in collective bargaining with the International Union of Elevator Constructors advancing sound engineering practices within the industry in cooperation with government agencies in activities related to elevator codes and the installation, service, and maintenance of elevators and related products; compiling and furnishing statistical information.

Standardization Activities

Actively participates with code and standards organizations and enforcing authorities in developing, maintaining, and applying safety codes and standards that pertain to elevators, dumbwaiters, escalators, and moving walks. Develops requirements for the handicapped using vertical transportation, codes for personnel elevators, personnel and material hoists, model building codes, electrical codes, requirements for elevator fire doors, and metric codes.

Promotes the adoption of new state and local elevator codes, revises existing elevator safety codes and secures uniform interpretation of the Safety Code for Elevators and Escalators ANSI/ASME A17.1. Representatives of the NEII Central Code Committee are members of ASME A17, NFPA 70, 80 and 101, BOCA, SBCC, ICBO, and ASTM.

The Standards Committee is responsible for the development of industry standards for elevators, dumbwaiters, and escalators. The Vertical Transportation Standard gives architects and building owners standard dimensions from which they can produce building layouts.

The International Standards Committee coordinates the Activities of the United States Technical Advisory Group for ISO/TC 178 Lifts and Escalators.

Availability Distributed directly.

Formerly National Elevator Manufacturers Industry (1969)

Keywords elevators; escalators; dumbwaiters; moving walks; lifts; building; safety; physically handicapped;

NATIONAL ENVIRONMENTAL BALANCING BUREAU

Michael P. Dolim, Executive Vice President
8575 Grovemont Circle
Gaithersburg, Maryland 20877-4121
(301) 977-3690 FAX: (301) 977-9589

Founded: 1971 Standards Staff: 2

Type of Organization Trade Association
Standards Developer

Standards Development Four (4) procedural standards publications.

Government Adoption Procedural Standards for Testing, Adjusting, and Balancing of Environmental Systems is referenced in Federal Guide Specifications.

Certification NEBB offers certification for firms that meet all requirements established for Performance of Air Systems, Performance of Hydronic Systems, and Sound and Vibration Measurement, Cleanroom Performance Testing and Building Systems Commissioning.

Scope A nonprofit organization sponsored by the Mechanical Contractors Association of America (MCAA) and Sheet Metal and Air Conditioning Contractors National Association (SMACNA).

Standardization Activities Works in conjunction with other organizations to develop industry procedural standards for testing, adjusting, and balancing (TAB) of environmental systems in buildings. Represented on the American Society for Heating, Refrigerating and Air conditioning Engineers (ASHRAE) 111 Committee, Testing, Adjusting, Balancing. Develops manuals that provide a comprehensive set of systematic procedures representing the state-of-the-art of TAB work. Manuals cover air/Hydronic TAB, sound and vibration measurement procedures for environmental systems in buildings, Cleanroom performance testing, and building systems commissioning.

Availability Distributed directly.

Keywords balancing; sound; vibration; air handling; Hydronic systems; HVAC Systems; environmental systems; acoustics; building; cleanrooms; certification; commissioning;

NATIONAL FASTENER DISTRIBUTORS ASSOCIATION

Kenneth R. Dickson, Executive Director

725 Southwick Circle
Somerdale, New Jersey 08083-2311
(609) 627-4333 FAX: (609) 627-7531

Founded: 1968

Type of Organization Trade Association
Works through other organizations to develop standards

Representation The Association is a member of ANSI, ASME, ASTM, the American National Metric Council, and the Industry Bar Code Alliance.

Scope 209 manufacturers and distributors in the fastener industry with members located in 41 states employing 18,000 people.

Standardization Activities An information gathering group that disseminates data to the proper standards committees. Writes specifications only if the situation cannot be handled by an

existing standards developing organization. Currently developing a bar code standard.

Keywords fasteners; manufacturing;

NATIONAL FEDERATION OF ABSTRACTING AND INFORMATION SERVICES

John Schnepf
Common Practices and Standards Committee

1518 Walnut Street
Suite 307
Philadelphia, Pennsylvania 19102
(215) 893-1561 FAX: (215) 893-1564

Founded: 1958

**Type of
Organization**

Technical Society
Works through other organizations to develop standards

Representation

65 members active in standardization activities including involvement in ANSC-Z39, ANSC-X3, ISO/TC 46, UNESCO's UNISIST Project, Federal Information Processing Standards (FIPS), AAP's Electronic Publishing Subcommittee, and others.

Scope

A nonprofit federation of organizations involved in abstracting and indexing services, operating information centers, or conducting research in information science. Improves the extent and quality of the documentation and use of the world's literature through research programs, publications, and seminars. Concerned with developing communications, cooperation, and coordination among all segments of the information processing and dissemination community including primary publishers, libraries, commercial and industrial abstracting and indexing services, data analysis centers, information dissemination centers, and teachers and researchers in the field. Also serves as a communication forum for its members through meetings, workshops, committee activities, and publications.

**Standardization
Activities**

Although NFAIS is not a standards setting body, it works within the voluntary standards community to foster the development and use of standards relevant to its membership. Because NFAIS members are involved in various aspects of the processing and disseminating of information, their interest in standards ranges widely. Relevant standards may pertain directly to abstracting and indexing practices. Also of interest are standards dealing with information science, primary publishing, library work, data processing, and computer readable information

transfer. Relevant standards may also arise from individual subject areas or disciplines with which the information deals, such as engineering, biology, philosophy, or art.

NFAIS, through its Common Practices and Standards Committee (CP&S), serves as a communications link between the voluntary standards setting community and the information publishing and distribution community. The CP&S Committee coordinates the NFAIS response to ballots or requests for comments pertaining to draft standards. This is accomplished by polling the NFAIS membership and, in some cases, by resolving minority votes on specific standards. By the same mechanism, NFAIS recommends and votes on qualified individuals to run for office or to serve on committees in standards setting bodies.

Further, NFAIS encourages the active participation of its members on standards setting bodies. Through its members and officers, NFAIS plays a role in the work of such standards setting bodies as: ANSI Committees X3-Information Processing and Z39-Library and Information Sciences and Related Publishing Practices; ISO Committees TC 46-Documentation and TC97-Computers and Information Processing; UNESCO through its UNISIST and ISDS (International Serials Data System) agencies; IFLA (International Federation of Library Associations); ICSU-AB (International Council of Scientific Unions - Abstracting Board); FIPS; and the AAP Electronic Publishing Subcommittee.

In addition to its support for the development of voluntary standards, NFAIS also encourages the general adoption of those standards considered most applicable and useful to the information processing and distribution community. Periodically, NFAIS surveys the implementation of standards by its members in order to determine which standards are being used and the ways in which they are used. Such surveys also provide information on the common practices and the de facto standards of members which may be candidates for formal standardization.

Formerly

National Federation of Science Abstracting and Indexing Service (NFSAIS), 1972.

Keywords

abstracting; indexing; information services; online searching; bibliographic data bases; information processing; communications;

NATIONAL FEDERATION OF STATE HIGH SCHOOL ASSOCIATIONS

Robert F. Kanaby, Executive Director

11724 Plaza Circle
Kansas City, Missouri 64153
(816) 464-5400 FAX: (816) 464-5571

Founded: 1920 Standards Staff: 3

**Type of
Organization**

Academic Federation
Standards Developer

**Standards
Development**

Prepares rules and standards for 13 interscholastic sports.

Scope

Represents 20 000 high schools and 10 million secondary school students, primarily to secure proper adherence to the rules of various state high school associations during interstate competition. Establishes standards for sanctioning domestic athletic events.

**Standardization
Activities**

Publishes and distributes playing rules for domestic competition in interscholastic sports: baseball, basketball, football, gymnastics, soccer, swimming and diving, track and field, volleyball, ice hockey, wrestling, field hockey. Sixty-six rules related publications are published including 28 rule books and 13 rule examinations. Provides national interpretation of the rules and advocates safety standards which are incorporated in the rule publications.

Availability

Distributed directly.

Formerly

National Federation of State High School Athletic Associations (1970)

Keywords

athletic competition; sports; safety; recreation;

NATIONAL FENESTRATION RATING COUNCIL

John D. Rivers, Administrator

1300 Spring Street
Suite 120
Silver Spring, Maryland 20910
(301) 589-6372 FAX: (301) 588-0854
e-mail: NFRCUSA@aol.com

Founded: 1989 Standards Staff: 4

Type of Organization	Educational and Scientific Ratings Developer
Standards Development	Develops rating procedures for fenestration products. 6 rating procedures.
Standards Designation	Ratings procedures are designated NFRC 100-91, NFRC 200, etc.
Government Adoption	Federal Regulations and those of six states and the CABO Model Energy code
Certification	Three programs: one to accredit laboratories; one to license independent certification agencies; and one to certify fenestration products in accordance with rating procedures.
Scope	NFRC is a coalition of the fenestration and building industries, government, utilities, code officials and consumer groups working to develop a voluntary, national energy rating system for windows, doors, skylights and other fenestration products. A uniform national energy performance rating and labeling system will enable builders and consumers to directly compare fenestration products.
Standardization Activities	NFRC is working to combine U-factor, solar heat gain factors, optical properties, air infiltration condensation resistance, annual and long term energy performance and other characteristics into a uniform rating system that reflects energy performance. This effort is supported by a rigorous system of laboratory accreditation to ensure competence and accuracy in the implementation of the various rating techniques employed. Product certification and labeling processes have also been standardized to ensure consistency in product labeling and consumer information.
Availability	Distributed directly.
Keywords	windows; doors; skylights; fenestration; energy performance;

NATIONAL FIRE PROTECTION ASSOCIATION

Arthur E. Cote, Vice President and Chief Engineer
 Batterymarch Park
 Quincy, Massachusetts 02269
 (617) 770-3000 FAX: (617) 770-0700
 e-mail: library@nfpa.org
 WWW: <http://www.wpi.edu/~fpe/nfpa.html>

Founded: 1896

Standards Staff: 300

**Type of
Organization**

Technical and Educational Organization
Standards Developer

**Standards
Development**

Standards developer since 1896.
Approximately 5200 individuals serve on more than 200 NFPA Technical Committees which develop new codes and standards and continually monitor existing documents.
National Fire Codes, 1989 Edition, includes approximately 300 fire protection, prevention and suppression codes, standards, recommended practices, guides, and manuals, all of which are ANSI approved standards. Draft documents and revisions are published for public review and comment.

**Standards
Designation**

NFPA prefix.

**Government
Adoption**

In the United States, NFPA documents are referenced by the Occupational Safety and Health Act (OSHA); adopted by Congress for recipients of Medicare and Medicaid; adopted by Coast Guard, Departments of Veterans Affairs, Health and Human Services, Housing and Urban Development; adopted by numerous state and local governments. In addition, various governments around the world adopt NFPA documents at both the national and local levels.

Certification

Administers Certificated Marine Chemist program.

Secretariats

International: Conference of Fire Protection Associations
United States: Joint Council of National Fire Service Organizations

Scope

An independent, nonprofit organization with approximately 65 000 individual members and 100 national trade and professional association members worldwide. Activities are technical and educational in nature. Gathers and analyzes fire statistics; performs on-site investigation of significant fires; and works on anti-arson projects. National sponsor of Fire Prevention Week.

**Standardization
Activities**

Active Standards Council which administers standardization activities of more than 200 technical committees. Standards widely used as the basis of legislation and regulation at all levels of government; many referenced by the federal government and used by insurance authorities for risk evaluation and premium rating. Many documents are used outside North America.

Availability Distributed directly and through IHS, and Global.

Keywords fire prevention; fire protection; fire code; safety;

NATIONAL FIRE SPRINKLER ASSOCIATION

John A. Viniello, President

P.O. Box 1000
Patterson, New York 12563
(914) 878-4200 FAX: (914) 878-4215

Founded: 1914 Standards Staff: 5

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

106 representatives and 65 committees active in
standards development.

Scope

A national trade association of fire sprinkler manufacturers and
installers. Advances the art of automatic control of fire through
automatic sprinklers, and the conservation of life and property
from fire.

**Standardization
Activities**

Cooperates with national technical bodies in the
preparation of standards and fire protection sections of building
codes and ordinances. Sets standards for design, installation,
inspection, and maintenance of automatic sprinklers.

Cooperates with the American Insurance Association, Insurance
Services Office, Underwriters Laboratories (UL), and Factory
Mutual Engineering and Research in the formulation of standards,
specifications, and regulations for fire apparatus and their use.

Officially represented on sectional committees functioning under
the procedure of the American National Standards Institute (ANSI)
engaged in the development and revision of code for pressure
piping, pipe threads, and pipe flanges and fittings.

The NFSA is a member of the Southern Building Code Congress, the
International Conference of Building Officials, and Code
Administrators International. Maintains consistency between codes
and standards and coordinates the industry's activities in the
model code field with those in the standard making bodies,
including National Fire Protection Association, American Society
for Testing and Materials, American National Standards Institute,
Underwriters Laboratories, Factory Mutual System, and others.

Formerly National Automatic Sprinkler and Fire Control Association
Availability Distributed directly.
Keywords fire protection; safety; sprinkler;

NATIONAL FISHERIES INSTITUTE

Roy Martin, Vice President of Science and Technology

1525 Wilson Blvd.
Suite 500
Arlington, Virginia 22209
(703) 524-8880 FAX: (703) 524-4619

Founded: 1945 Standards Staff: 2

Type of Organization Trade Association
Works through other organizations to develop standards
Scope A national trade association that represents United States companies engaged in seafood processing, shipping, and distribution.
Standardization Activities Works with Department of Commerce, National Marine Fisheries Service to assist in their development of standards.
Keywords fish; seafood; marine resources; food;

NATIONAL FLUID POWER ASSOCIATION

Shirley C. Seal, Manager of Standards Development
Industry/National

3333 North Mayfair Road
Suite 311
Milwaukee, Wisconsin 53222-3219
(414) 778-3344 FAX: (414) 778-3361
e-mail: nfpa@execpc.com
WWW: <http://www.nfpa.com>

Founded: 1953 Standards Staff: 3

Type of Organisation Trade Association
Standards Developer

Standards Development Standards developer since 1953.
380 members participating in standards activities.
55 active NFPA standards.
117 promulgated through ANSI.

Standards Designation NFPA Recommended Standards, and ANSI/B93.x and
ANSI/NFPA T-.-.-.

Certification No certification, qualification, or accreditation programs.

Secretariats ASC B93
ISO/TC 131
ISO/TC 131/SC 4
ISO/TC 131/SC 7

Government Adoption 4 adopted by DoD.

Secretariats ANSI/B93, Fluid Power Systems and Products.
ISO/TC 131, Fluid Power Systems.

Scope A nonprofit trade association serving manufacturers of fluid power
(hydraulic and pneumatic) products with 182 corporate members
nationwide.

Standardization Activities Standards activities account for half of the total
association programs. Administered through a technical board,
under which are organized 16 committees and 150 project groups.
Standards cover dimensions, specifications, methods of testing or
rating, terminology, symbols, and procedures for systems, as well
as individual components, including fluid power cylinders, valves,
pumps, motors, sealing devices, conductors, fittings, filters,
fluids, servovalves, accumulators, and pneumatic logic devices.
Solicits technical input from all affected interests.

Committees and staff participate in standards programs of ANSI,
SAE, ASME, ASTM, ISA, and ASLE.

Availability Sold directly and through ANSI, Global, and IHS.

Keywords fluid power; hydraulic; pneumatic;

NATIONAL FOOD PROCESSORS ASSOCIATION

John R. Cady, President

1401 New York Avenue NW.
Suite 400
Washington, DC 20005
(202) 639-5900

FAX: (202) 639-5932

Scope Forest product manufacturers and federation of 30 North American forest industry associations. Represents the industry on national issues concerning timber growth and product manufacture.

Standardization Activities Develops and distributes 6 recommended specifications and standards for the use of lumber and wood products and 16 general construction data guides. Serves on standards committees of ANSI, ASTM, and the National Fire Protection Association.

Standards activity includes development of wood structural design data, design values for wood construction, span tables for joists and rafters, the design of wood frame structures, and permanent wood foundations.

Availability Sold or distributed directly.

Formerly National Lumber Manufacturers Association (1965)

Keywords wood; lumber; construction; building;

NATIONAL GOLF CAR MANUFACTURERS ASSOCIATION

Fred L. Somers, Jr., Secretary-Treasurer/General Counsel

Two Ravinia Drive
 Suite 310
 Atlanta, Georgia 30346
 (770) 394-7200 FAX: (770) 395-7698

Founded: 1984 Standards Staff: 1

Type of Organization Trade Association
 Standards Developer

Standards Development Develop and maintain safety and performance standards for golf cars. These are published in accordance with American National Standards Institute (ANSI) criteria and distributed through ANSI.

Standards Designation ANSI/NGCMA Z-130.1 Golf Car Standard.

Certification None

Scope Membership consists of OEM manufacturers representing approximately 95 percent of all golf cars produced in

the United States. NGCMA develops and maintains performance and safety standards for use by the golf industry.

Keywords golf cars;

NATIONAL GROUND WATER ASSOCIATION

Kevin B. McCray, CAE, Executive Director

One Ground Way at 2600 Airport Drive
Columbus, Ohio 43219

(614) 761-1711

FAX: (614) 761-3446

Founded: 1948

Standards Staff: 11

**Type of
Organization**

Technical Society
Works through other organizations to develop standards

Representation

American Water Works Association; American Society for Testing and Materials.

Certification

Offers a voluntary Certification Program for both ground water contractors and ground water scientists and engineers. Contractor certification includes one general and 12 specific examinations.

Scope

An organization of water well drilling contractors, manufacturers, wholesale suppliers and professional geologists, hydrologists, and engineers interested in the problems of locating, developing, and utilizing underground water supplies. Objectives of the association include the promotion of scientific development and the advancement of the science of ground water hydrology.

**Standardization
Activities**

Business Information Committee cooperates with various organizations in developing standards for well construction and the sampling and monitoring of ground water resources. The National Ground Water Information Center, a service of the Association, maintains an online data base of standards applied throughout the ground water industry.

Keywords

wells; water wells; hydrology; public health;

NATIONAL HARDWOOD LUMBER ASSOCIATION

Ernest J. Stebbins, Executive Manager

Box 34518
Memphis, Tennessee 38134-0518
(901) 377-1818 FAX: (901) 382-6419

Founded: 1898 Standards Staff: 9

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Designation**

NHLA prefix.

Certification

The association maintains qualified inspectors in the principal hardwood markets and producing districts of the United States and Canada who are authorized to issue certificates of inspection of hardwood lumber and cypress, the correctness of the grades and measurements shown on the certificate being guaranteed by the financial resources of the association. This official inspection service is available to the members and nonmembers on federal, state or local government contracts. Extensive use of this service has been made by the U.S. Defense Supply Agency.

Scope

United States and Canadian hardwood lumber and veneer manufacturers, distributors, and consumers. Inspects measures, and certifies hardwood lumber.

**Standardization
Activities**

One of the principal functions is the maintenance of standards for the grading of hardwood lumber, and an inspection staff for the official application of the standards.

Issues biennially a new edition of the Rules for the Measurement and Inspection of Hardwood Lumber, Cypress, and Thin Lumber. NHLA's grade rules are recognized as standard throughout the world.

Maintains a school in Memphis, Tennessee for training hardwood inspectors.

Availability

Distributed directly.

Keywords

wood products; lumber; inspection; grading rules; building;

NATIONAL INFORMATION STANDARDS ORGANIZATION

Patricia Harris, Executive Director

4733 Bethesda Avenue
Suite 300
Bethesda, Maryland 20814
(301) 654-2512 FAX: (301) 975-1721
WWW: <http://www.niso.org>

Founded: 1939 Standards Staff: 3

Type of Organization	Professional Association Standards Developer
Standards Development	500 members serve on NISO standards committees. More than 50 published standards.
Standards Designation	Z39.
Government Adoption	Some NISO-developed standards have been adopted by DoD or as FIPS standards.
Secretariats	ISO/TC 46/SC 4 Automation in Documentation and Information
Scope	A professional association which develops technical standards used in libraries, information services and systems, and publishing.
Standardization Activities	NISO standards address the communication needs of information services, libraries, publishing, and the book trade in such areas as: communication formats and information transfer, transliteration, preservation of materials, forms and records, identification systems, publication formats, and library equipment and supplies. NISO is designated by ANSI as the U.S. TAG to ISO/TC 46 Computer Applications in Information and Documentation.
Availability	Distributed by Transaction Publishers; draft standards available directly from NISO.
Keywords	library; publishing; information services; books; communications;

NATIONAL INSTITUTE OF BUILDING SCIENCES

David A. Harris, President

1201 L Street NW.
Washington, DC 20005
(202) 289-7800

FAX: (202) 289-1092

Founded: 1978

Standards Staff: 25

**Type of
Organization**

Scientific Society
Standards Developer

Secretariats

Building Seismic Safety Council
Building Thermal Envelope Coordinating Council
Wood Protection Council

Scope

Congressionally authorized, nonprofit, nongovernmental scientific/technical institution. Functions and responsibilities relate to building regulations in the following four areas: (1) development, promulgation, and maintenance of nationally recognized performance criteria, standards, and other technical provisions for maintenance of life, safety, health, and public welfare suitable for adoption by building regulating jurisdictions and agencies, including test methods and other evaluative techniques relating to building systems, subsystems, components, products, and materials with due regard for consumer problems; (2) evaluation and prequalification of existing and new building technology; (3) conduct investigations in direct support of building regulations and evaluation of new technology; and (4) assembly, storage, and dissemination of technical data and other information directly related to the preceding areas.

**Standardisation
Activities**

Improves the regulatory environment and facilitates the introduction of new and existing products and technology into the building process. Advises both the public and private sectors of the economy with respect to the use of building science and technology in achieving nationally acceptable standards and other technical provisions for use in federal, state, and local housing and building regulations. Publications and services are available to all those who procure, design, construct, use, operate, maintain, and retire physical facilities. Services of the Institute are also useful to other public and private organizations which perform related research and other tasks on which building standards and regulations are based.

The members of the Institute elect a 36-member Consultative Council which provides a direct line of communications with all appropriate trade, professional and labor organizations, private and public standards, code and testing bodies, public regulatory agencies and consumer groups. The Council is responsible for

overseeing the consensus procedures and conduct of consensus activities of the Institute.

Using Compact Disc-Read Only Memory (CD-ROM) technology, the Institute publishes the Construction Criteria Base (CCB). The CCB contains guide specifications, design and construction criteria and standards developed and used by various federal construction agencies. Many of the public and private standards referenced in the guide specifications, including model codes, are contained in the CCB which is available on a subscription basis.

Availability

Distributed directly.

Keywords

housing; building; performance criteria; technology; regulations; guide specifications;

NATIONAL INSTITUTE OF INFANT SERVICES

John A. Shiffert, Executive Director

Diaper Service Accreditation Council
2017 Walnut Street
Philadelphia, Pennsylvania 19103
(215) 569-3650

Founded: 1938

Standards Staff: 1

**Type of
Organization**

Scientific Society
Standards Developer

Certification

Sponsors an autonomous professional Diaper Service Accreditation Council which has promulgated standards for plant sanitation, customer service, and marketing practices. The council accredits diaper service applicants who go through self-evaluation and inspection by an independent site committee for evaluation against the standards. Accredited members must maintain all standards as they may be changed in annual review by the council.

Scope

Conducts research into the requirements of diaper processing to meet the sensitivity of infant skin.

**Standardization
Activities**

Standards are established through a process by which an independent accredited medical laboratory under the supervision of a clinical pathologist conducts microbiological and patch test studies on infants to establish standards. The laboratory then devises testing procedures by which random sample diapers can be tested routinely against the prescribed standards.

Standards are raised from time to time as new knowledge is revealed by the continuing research program. The diaper test now include five major areas: (1) a sanitary score, awarded on the basis of microorganisms found on the sample; (2) a pH test by the calorimetric procedure, to show that the sample meets the acceptable range of 4.5 to 6.5; (3) evidence of impregnation of the sample with an EPA-approved bacteriostat; (4) a softness test with freedom from stiffness or spilling; and (5) an absorbency test so that water added drop by drop enters the fabric immediately. A diaper service must meet these standards in order to establish qualification and maintain membership.

Availability Distributed directly.

Formerly Merger of the Diaper Service Industry Association and the National Institute of Diaper Services (1971)

Keywords infant service; public health; diapers; consumer products;

NATIONAL INSTITUTE OF OILSEED PRODUCTS

Belva W. Jones, Executive Secretary

1101 Fifteenth Street, NW
Suite 202
Washington, DC 20005
(202) 785-8450

FAX: (202) 223-9741

Founded: 1934

Standards Staff: 1

**Type of
Organization**

Trade Association
Standards Developer

Certification

Chemists Certification Program requires annual successful completion of the American Oil Chemists' Society Smalley Check Sample Series.

Scope

An international trade organization with the principal objective of promoting the general business welfare of persons, firms and corporations engaged in the buying, selling, shipping, storage and use of vegetable oils and raw materials. Includes over 300 member firms in 26 countries.

**Standardization
Activities**

Maintains and publishes annually, uniform trading rules to promote effective and efficient trading within the oilseeds industry. The publication includes not only the uniform trading rules, but also a list of certified chemists, samplers, and weighers; Tank Truck Guidelines; the FOSFA International and NIOP joint list of acceptable previous cargoes; and a complete membership roster.

Cooperates with the International Association of Seed Crushers (Europe), Philippine Coconut Oil Producers Association, Philippine Copra Exporters Association, and the U.S. Department of Agriculture in efforts to improve product quality and establish higher standards of trade practices, which are then incorporated in the rules.

Availability

Distributed directly.

Keywords

oil seed; vegetable oil; food; agriculture;

NATIONAL INSURANCE CRIME BUREAU

John G. Di Liberto, President and CEO

10330 South Roberts Road
Palos Hill, Illinois 60465
(708) 430-2430

FAX: (708) 430-2446

Founded: 1992

Standards Staff: 15

**Type of
Organization**

Service Organization
Works through other organizations to develop standards

**Standards
Development**

Since 1975 the NICB through US DOT has assisted the US vehicle manufacturing industry in developing vehicle identification number standards and marking locations. Vehicle identification numbers and locations of specific markings are mandated by U.S. Department of Transportation (US DOT), and National Highway Traffic Safety Administration (NHTSA).

Scope

The NICB formulates and implements policies for the prevention of vehicle theft, vehicle arson, and vehicle fraud as well as all types of insurance fraud. NICB cooperates with duly constituted public authorities in the prosecution of individuals engaged in vehicle and insurance related crimes.

The NICB is an agency for the location and identification of stolen vehicles and for the promotion of anti-vehicle theft and fraud activities. NICB is a crime prevention organization supported by more than 1000 property-casualty insurance companies,

providing assistance to law enforcement, insurance companies and the public.

**Standardization
Activities**

Cooperates with vehicle manufacturers in the adoption of a standard vehicle identification number, as well as in a standard method of stamping and affixing such numbers.

NICB Prints and distributes to law enforcement agencies a Passenger Vehicle Identification Manual, a Commercial Vehicle Identification Manual, and a Manual for the Investigation of Vehicle Fires. NICB also prints and distributes to insurance companies, lists of potential fraud indicators for use in recognizing patterns which could indicate fraudulent activity. Services of the NICB are for the benefit of, not only the insurance industry and law enforcement, but the public as well.

Availability

NICB publications are available to government agencies, law enforcement agencies and the insurance industry by telephoning or faxing the National Insurance Crime Bureau.

Formerly

National Automobile Theft Bureau (1992)

Keywords

automobile theft; vehicle theft; law enforcement;

NATIONAL KITCHEN AND BATH ASSOCIATION

Paul A. Kohmescher, Executive Director

687 Willow Grove Street
Hackettstown, New Jersey 07840
(908) 852-0033 FAX: (908) 852-1695

Founded: 1963 Standards Staff: 5

**Type of
Organization**

Trade and Professional Association
Standards Developer

**Standards
Development**

Develops standards which set guidelines for good kitchen and bathroom design.

Certification

Certified Kitchen Designers (CKD) and Certified Bathroom Designers (CBD).

Scope

More than 6000 members consisting of manufacturers, distributors, manufacturers' representatives, retailers and independent designers. Serves its members in setting design standards, promoting consumer awareness and providing educational opportunities.

Standardization Development Develops and promulgates 31 guidelines on good kitchen design and 27 guidelines on good bathroom design.

Availability Distributed directly to members and available to others upon request.

Formerly American Institute of Kitchen Dealers (1983)

Keywords kitchen; bathroom;

NATIONAL LIME ASSOCIATION

Harry L. Francis, Technical Manager

200 N. Glebe Road
 Suite 800
 Arlington, Virginia 22203
 (703) 243-5463 FAX: (703) 243-5489

Founded: 1902 Standards Staff: 1

Type of Organization Trade Association
 Works through other organizations to develop standards

Representation Active in ASTM, AWWA, and other organizations in developing standards.

Secretariats ASTM C7 on Lime; ASTM C12 on mortar; AWWA lime specification committee.

Scope An association of commercial producers of quicklime and hydrated lime. Members provide about 85 percent of the commercial lime used in the United States - for steelmaking; water, sewage and waste treatment; sulfur dioxide removal from flue gasses; industrial chemicals; stabilization for road and airfield construction; mortar and plaster, etc.

Standardization Activities Engages in committee work with American Society for Testing and Materials, American National Standards Institute, American Road and Transportation Builders Association, American Water Works Association, Air Pollution Control Association, Construction Specifications Institute, etc., in standards related to lime. Instrumental in working to develop specifications which will be reasonable and helpful to the hundreds of users of lime and lime products.

Publications include guidelines for using lime for Water Supply and Treatment; Lime Handling, Application & Storage in Treatment Processes; Lime Stabilization Construction Manual; Flexible Pavement Design Guide; Effective Use of Lime in Asphalt; Specifications for Lime and Its Uses in Plastering Stucco, Unit Masonry, and Concrete; Map of Commercial Lime Producers.

Keywords

lime; calcium oxide; calcium hydroxide; magnesium oxide; magnesium hydroxide; burnt lime; quick lime; hydrated lime; high calcium lime; dolomitic lime; mortar; soil stabilization; flue gas desulfurization; neutralization;

NATIONAL LUBRICATING GREASE INSTITUTE

Duane J. Fike, General Manager

4635 Wyandotte Street
Kansas City, Missouri 63112
(816) 931-9480 FAX: (816) 753-5026

Founded: 1933 Standards Staff: 1

Type of Organization

Trade Association/Technical Society
Standards Developer

Standards Development

200 members active in standards development.

Standards Designation

NLGI.

Certification

NLGI Reference Systems available for use as research tools in the development and evaluation of lubricating grease formulations.

Scope

A technical society whose objectives are the development of better lubricating greases for the consumer and better grease lubricating engineering service to the industry. Collects and disseminates technical data.

Standardization Activities

Develops standards within ASTM and Recommended Practices with SAE. Also maintains liaison with other groups including API, STLG, Independent Lubricant Manufacturers Association (ILMA), National Petroleum Refiners Association (NPRA), and Petroleum Packaging Committee (PPC). Maintains Technical Committee charged with developing data pertinent to the manufacture, standardization, and application of industry products. Works with ISO to develop standardized definitions. Developed NLGI Chassis and Wheel Bearing Service Classification

System. NLGI consistency numbers recognized worldwide as the measure of one important grease characteristic. Cooperates with various Government agencies including DoD, NIST, FTC, and ICC.

Availability Distributed directly.

Formerly National Association of Lubricating Grease Manufacturers, Inc. (1936)

Keywords greases; lubricants; petroleum products; consistency number; materials;

NATIONAL MARINE ELECTRONICS ASSOCIATION

Cathryn Moyer, Executive Director

7074 Bembé Beach Road
Suite 203
Annapolis, Maryland 21403
(410) 263-1742

FAX: (410) 263-1743

Founded: 1957

Standards Staff: 2

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards Committee composed of design engineers, representing manufacturers and service dealers of marine electronic communication and navigation equipment. Committee membership is on a voluntary basis and functions under a chairman at the direction of the association Board of Directors.

**Standards
Designation**

NMEA 0180, NMEA 0182, NMEA 0183.

Representation

IEC/TC 80/WG 6, Digital Interfaces

Scope

A nonprofit trade association of companies involved in the manufacture, distribution, sales and service of ship-board marine electronic devices for communications, navigation, automation and acoustics. Aims to distribute industry information, contribute to United States and international rules and regulations and provide leadership to improve quality of industry.

**Standardization
Activities**

Beginning in 1980, established standard interface formats for transmission of data communications between marine electronic equipments to eliminate incompatibility among manufacturers and facilitate the ability of sellers and purchasers to interchange devices regardless of brands. Standards in use

throughout the worlds by voluntary application. In 1988, a working group (WG 6) was established by TC 80 of the IEC to produce a draft standard for digital interface for navigation equipment within a ship. NMEA, working through ANSI, is the technical committee representing the United States, IEC TC 80. The NMEA 0193 Standard will be adopted as official international standard, IEC 1162-1 (single talker/multi-listener). Work is underway by the NMEA to develop a low cost instrument network standard (multi-talker/multi-listener), future IEC 1162-3.

Availability Distributed directly.

Keywords marine electronics; navigation; data transmission; telecommunications;

NATIONAL MODEL RAILROAD ASSOCIATION

Deborah Z. Millard, Office Manager

4121 Cromwell Road
Chattanooga, Tennessee 37421
(615) 892-2846 FAX: (615) 899-4869

Founded: 1935 Standards Staff: 1

Type of Organization

Service Organization
Standards Developer

Standards Development

Has developed standards since 1936.

Standards Designation

NMRA Standards.
NMRA Recommended Practices.

Certification

Grants an NMRA Conformance Warrant to products conforming to NMRA standards after the Conformance-Inspection Committee checks manufactured products for compliance. Items meeting the standards and specifications are granted an NMRA Conformance Warrant which may be used in advertising as long as continued compliance is indicated by repeat inspections.

Scope

Advances the hobby of scale model railroading through the development, adoption, and regulation of standards; promotes cooperation and understanding between producers and users of hobby materials; and increases opportunities for fellowship among model railroaders. Membership comprises about 27 000 persons active in the field in the United States and throughout the world.

**Standardisation
Activities**

Establishes and maintains design standards for the manufacture of components for use in the hobby. These are intended to insure interchange between items produced by various sources and to improve performance. Adopted in 1936, specifications have been followed continuously by producers of scale railroad models and parts since that time, including refinements as the state of the art progressed.

Standards define track and wheel relationships, electrical power specifications, and clearance dimensions between rolling stock and trackside structures. NMRA recommended practices cover desirable characteristics other than those necessary for physical interchange and are intended to enable manufacturers to improve their product in a manner most suited to the user's needs. A General Engineering Committee is charged with responsibility for development of standards and recommended practices.

Availability

Distributed directly.

Keywords

scale models; railroads; hobby; recreation;

NATIONAL OAK FLOORING MANUFACTURERS ASSOCIATION

Walter Whitley, Executive Vice President

22 North Front Street
660 Falls Building
Post Office Box 3009
Memphis, Tennessee 38103
(901) 526-5016

FAX: (901) 526-7022

Founded: 1909

Standards Staff: 2

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1920.

**Standards
Designation**

Official Floor Grading Rules; OFI/NOFMA.

Certification

Use of the association's registered trademark "NOFMA" is granted to members whose stock of oak flooring has been found to comply with the association's official grading rules. Maintains a reinspection service available to retail dealers who purchase products of member companies in the event there is doubt concerning the quality of stock purchased.

Scope Manufacturers of hardwood flooring. Promotes standardization; conducts grade labeling and inspection services; maintains research program in grading, handling, packaging, and installation. Compiles statistics and sponsors installation school. An affiliate of the National Forest Products Association. Works with the VA, FHA, and other Government agencies dealing with housing, also the National Association of Home Builders, and the National Lumber and Building Material Dealers Association.

Standardization Activities Standardization and simplification activities carried on by its Grading, Milling, and Inspection Committee. Adopted official rules on oak, birch, beech, hard maple, and pecan flooring which cover in detail the grades and sizes of quartered and plain sawn stock. Cooperates with the federal government in the formulation of the federal specification for hardwood flooring (Lumber and Timber: Hardwood, MM-L-736C), which includes references to the grading rules of the association. Maintains rigid supervision of species, manufacturing, kilndrying, bundling, and other features pertaining to oak, birch, beech, and hard maple so that sizes and grades will be maintained.

Availability Sold directly.

Formerly Oak Flooring Manufacturers of United States (1930)
Southern Oak Flooring Industries (1933)

Keywords oak; grading rules; inspection; flooring; wood floors; lumber; building; wood products;

NATIONAL OILSEED PROCESSORS ASSOCIATION

Sheldon J. Hauck, President

1255 23rd Street, NW
Washington, DC 20037
(202) 452-8040

FAX: (202) 833-3636

Founded: 1930

Standards Staff: 2

Type of Organization Trade Association
Standards Developer

Certification Provides certification for Official Weighmasters; Automatic Sampler Installation at Vessel Loading Facilities; and Automatic Sampler Installation at Barge Loading Transfer Facilities.

Scope Thirteen regular member firms engaged in the actual processing of oilseeds; 25 associate member firms who are consumers of vegetable oil or oilseed meal, including some refiners and mixed feed manufacturers. Promote the domestic and international marketing of all types of oilseed products through development of equitable trading rules for buyers and sellers of such products; foster intense research activity aimed at improving and increasing yields and productivity of oilseed crops; promote the sale of oilseed products internationally; and educate domestic and international consumers to the benefits of utilizing oilseed products.

Standardization Activities Adopts standard specifications for crude, domestic soybean oil covering quality, grade, and methods of analysis. Establishes recommended soybean oil and meal trading rules. Helps establish product definitions for the formula feed industry.

Availability Sold directly.

Formerly National Soybean Processors Association (1929-1989)

Keywords soybean meal; soybean oil; agriculture;

NATIONAL PARTICLEBOARD ASSOCIATION

Rich Margosian, Executive Vice President

18928 Premiere Court
 Gaithersburg, Maryland 20879
 (301) 670-0604 FAX: (301) 840-1252

Founded: 1960 Standards Staff: 3

Type of Organisation Trade Association
 Standards Developer

Standards Development Active Standards:
 4 active standards.
 2 ANSI standards.

Standards Designation NPA or ANSI prefixes.

Government Adoption The U.S. Department of Housing and Urban Development references 2 standards.

Certification Certification of products for particleboard and medium density fiberboard producers.

Secretariats ANSI A 208, standards developed by the canvass method.

Scope Represents manufacturers of particleboard and medium density fiberboard to governmental agencies, sponsors voluntary standards development activities, compiles industry statistics, coordinates product and application research, and publishes technical and promotional literature.

Standardization Activities Eighteen member companies and 40 non-NPA companies, agencies, and interested parties participate in standards activities. NPA currently sponsors four industry standards: ANSI A208.1-1989 Wood Particleboard; ANSI A208.2-1986 Medium Density Fiberboard For Interior Use; NPA 9-87 Voluntary Standard for Formaldehyde Emission From Medium Density Fiberboard (MDF); NPA 1-82 Standard for particleboard Mobile Home Decking.

Availability Sold directly and through ANSI.

Keywords particleboard; fiberboard; formaldehyde; wood products; wood panels;

NATIONAL PEST CONTROL ASSOCIATION

Richard D. Kramer, Director of Research, Education & Technical Resources

8100 Oak Street
Dunn Loring, Virginia 22027
(703) 573-8330 FAX: (703) 573-4116

Founded: 1933 Standards Staff: 3

Type of Organization Trade Association
Works through other organizations to develop standards

Representation ASTM, NIBS, DOD, HUD, USDA

Scope Represents the urban pest control industry in the United States. Member firms engage in control of insect, and certain vertebrate pests. These pests left to multiply in urban or suburban centers would damage stored food, wood based dwellings, or actively transmit organisms that result in fatal or debilitating human disease. Although NPCA has many international members its major function is to represent domestic urban pest control interests.

Standardization Activities Publishes specific guidelines such as Good Practice Statements and various reference procedures that are developed by technical and/or management committees and formally approved in some cases by vote of the entire membership or by vote of its board of directors. NPCA works actively on ASTM committee E-35 and D225 and committees of the National Institute of Building

Sciences, particularly Indoor Air Quality. Both organizations promulgate standards that involve aspects of urban pest management.

Keywords

pest control; vector control; insect control; rodent control; structural protection; subterranean termite control; indoor air quality; public health; sanitation;

NATIONAL PRINTING INK RESEARCH INSTITUTE

J. M. Petsco, Technical Administrator

Sinclair Lab Building #7
Lehigh University
7 Asa Drive
Bethlehem, Pennsylvania 18015
(610) 758-3588

Founded: 1946 Standards Staff: 2

Type of Organization

Scientific Society

Scope

Engages in projects to investigate problems of mutual interest to the printing ink and printing industries.

Standardization Activities

Publishes raw material data handbooks on materials used in manufacturing printing ink. Coordinates with ASTM on developing test methods used within the printing ink industry. Develops monographs on subjects of interest to the printing ink industry.

Availability

Distributed directly.

Keywords

ink; printing ink; communications;

NATIONAL PROPANE GAS ASSOCIATION

Bruce J. Swiecicki, Vice President, Technical Services

1600 Eisenhower Lane
Lisle, IL 60532
(708) 515-0600 FAX: (708) 515-8774

Founded: 1931 Standards Staff: 3

Type of Organization Trade Association
Works through other organizations to develop standards.

Representation Representatives on Standards Committees of ANSI, ASTM, NFPA, ASME and API.

Scope A vertically structured national trade association of companies and individuals involved in the production, transportation, distribution, and marketing of liquefied petroleum gas.

Standardization Activities Provide input to and representation on various standards making organizations. Focus is on standards associated with the safe handling and use of LP-Gas and the associated equipment and material.

Keywords energy; safety; liquified petroleum gas; LP-Gas;

NATIONAL RETAIL FEDERATION

Tracy Mullin, President

Liberty Place
325 7th Street, N.W.
Suite 1000
Washington, DC 20004-2608
(202) 783-7971 FAX: (202) 737-2849

Founded: 1911 Standards Staff: 4

Type of Organization Trade Association
Standards Developer

Standards Development No NRF standards are processed through ANSI.
Standards are developed by committees of the membership.

Scope The nations largest trade association representing the general merchandise retail industry with 4500 individual corporate members operating approximately 45 000 department, chain, specialty and independent stores in the United States and an additional 1000 stores in 50 nations abroad. NRF's members' aggregate domestic sales are in excess of \$150 billion annually and they employ more than three million workers. Devoted to the exchange of information among retailers and to research and education. Takes an active part in the formulation of standards and specifications relative to retail store organization, retail trade terminology, business practices, and specifications for commodities used in the trade. Cooperates actively with ANSI and other technical and trade organizations and the government.

**Standardization
Activities**

Endorsed the Universal Product Code (UPC) for uniform merchandise identification acceptable to both general merchandise retailers and vendors. Develops and maintains standard color and size codes for common usage between retailers and manufacturers. Participates in the General Merchandise and Apparel Implementation Committee of the Uniform Code Council (secretariat for the UPC) in standards definition and approval for merchandise marking, shipping, container labeling and identification and definition of standards for ANSI X.12 Electronic Data Interchange (EDI) fields, usage and transaction sets. Is active on the EDI Advisory Committee of the Uniform Code Council and in the Federation of Automated Coding Technologies (FACT). Offers the Standard Color and Size Code Handbook.

Formerly

National Retail Merchants Association (1990)

Keywords

merchandise; retailing; merchandise identification; sizes; business; consumer goods;

NATIONAL RIFLE ASSOCIATION OF AMERICA

Wayne R. LaFierre, Jr., Executive Vice President

11250 Waples Mill Road
Fairfax, Virginia 22030-7400
(703) 267-1000 FAX: (703) 267-3989
e-mail: nra-contact@nra.org

Founded: 1871 Standards Staff: 2

**Type of
Organization**

Educational and Sports Association
Standards Developer

Certification

Standards for paper targets are enforced through a licensee process. When the specified standards are met, an "Official NRA Target" designation is given to the manufacturer for printing on the target. The NRA certifies marksmanship and firearm safety instructors, referees, and coaches; and approves, when certain standards have been met, training and qualification courses for police departments, shooting range safety officers, and military and civilian rifle and pistol clubs. The NRA sets safety standards for firearms instruction courses and ranges, and is recognized as the leader of firearm safety education in the United States.

Scope

Nonprofit membership organization with more than 3.3 million members and 12 000 affiliated local clubs and state organizations all interested in firearms or the shooting sports.

Standardization Activities Prepares and provides standard construction plans for a large variety of shooting ranges for different guns and events. Also standardized are paper and metal targets used in training and competition. These standards are researched and established by various specialized program committees and channeled through NRA's Competition Rules and Programs Committee and Board of Directors. Standards are included in annually revised competitive rule books, in annual meeting reports, and special shooting range literature and program outlines and manuals.

Availability Distributed directly.

Keywords shooting ranges; targets; safety; recreation; sports; firearms training;

NATIONAL ROOF DECK CONTRACTORS ASSOCIATION

Tom Barnkemp, President

11 South LaSalle Street
 Suite 1400
 Chicago, IL. 60603
 (312) 201-0101

FAX: (312) 201-0214

Founded: 1959

Standards Staff: 1

Type of Organization Trade Association
 Works through other organizations to develop standards

Scope Promotes the welfare of the structural roof deck systems industry by analyzing and informing the membership of conditions affecting the industry, informing the membership of improved operating methods and procedures, and conducting education and research activities.

Standardization Activities Develops or assists in the development of standard tests and test methods for industry products. Participate in model code development and with other government and public bodies involved with building, construction, and the installation of structural roof deck systems.

Formerly Gypsum Roof Deck Foundation Association (1980)

Keywords built-up roofing; building;

NATIONAL ROOFING CONTRACTORS ASSOCIATION

William A. Good, Executive Vice President

10255 W. Higgins Road
Suite 600
Rosemont, IL. 60018
(708) 299-9070 FAX: (708) 299-1183

Founded: 1886 Standards Staff: 1

**Type of
Organization**

Trade Association
Standards Developer
Works with other organizations to develop standards

Scope

Contractors applying membrane, metal, sprayed foam, slate, tile, and wood roofs. Sponsors instruction for roofing superintendents and holds management institutes.

**Standardization
Activities**

Dedicated to the improvement of systems standards for all roofing systems. Studies materials and application procedures and standards through various technical committees. Has joint liaison groups with various materials manufacturer organizations and government bodies. Conducts test programs with other industry organizations on a joint basis. Aims to enhance the development of improved material and application standards for the roofing industry.

Produced a Roofing and Waterproofing Manual that provides recommended procedures, practices and evaluative comments on roofing specifications, construction details, and roofing materials. Cooperates with the National Institute of Standards and Technology to conduct technical conferences. Also conducts an international symposium on roofing technology every five years.

Availability

Distributed directly.

Keywords

roofing; building;

NATIONAL SAFETY COUNCIL

Ronald J. Koziol, Standards Administration

1121 Spring Lake Drive
Itasea, Illinois 60143-3201
(708) 285-1121 FAX: (708) 285-1315
WWW: <http://www.nsc.org/nsc>

Founded: 1913 Standards Staff: 6

Type of Organization Technical Society
Works through other organizations to develop standards

Representation ANSI, UL

Secretariats ANSI A10, D16, Z16, Z41, Z244, Z365

Scope A nonprofit, nongovernmental public service organization. Aims to determine and evaluate methods and procedures that prevent accidents and mitigate injury and economic loss resulting from accidents, and to provide leadership to expedite the adoption and use of those methods and procedures that best serve the public interest. Functions in the areas of occupational safety and health, traffic safety, motor transportation safety, product safety, and consumer safety

Standardization Activities Focuses on standards concerned with safety of products or systems and with accident/injury record systems. In its materials and publications, references all of the appropriate codes and standards adopted by nationally recognized consensus standard producing organizations. Represented on ANSI's Organizational Member Council, the Safety and Health Standards Board, and the ANSI/OSHA Coordinating Committee.

Keywords safety; accident prevention; occupational health; traffic safety; consumer products; social welfare;

NATIONAL SASH AND DOOR JOBBERS ASSOCIATION

Robert T. O'Keefe, Executive Vice President

2400 E. Devon Avenue, Suite 314
Des Plaines, Illinois 60018
(708) 299-3400 FAX: (708) 299-0489

Founded: 1964 Standards Staff: 1

Type of Organization Trade Association
Works through other organizations to develop standards

Scope Promotes the use and increased consumption of stock millwork and related building products, including new products; advocates and promotes the sale of such products through sash and door jobbers; promotes the growth of the industry.

Standardization Activities The association supports the development of standards related to window and door products. In cooperation with the National Wood, Window and Door Association (NWWDA), helped prepare and further commercial standards relating to double hung casement, awning, and single hung wood window units which have been incorporated into NWWDA's Industry Standard ?.

Formerly Formed by the merger of the Northern Sash and Door Jobbers Association (1935) and the Southern Sash and Door Jobbers Association (1935)

Keywords windows; doors; sash; millwork; building; wood products;

NATIONAL SCHOOL SUPPLY AND EQUIPMENT ASSOCIATION

Tim Holt, Executive Vice President

8300 Colesville Road
Suite 250
Silver Spring, Maryland 20910
(301) 495-0240 FAX: (301) 495-3330

Founded: 1916 Standards Staff: 1

Type of Organization Trade Association
Works through other organizations to develop standards

Certification Issues certification when operable and folding walls are tested for sound transmission loss in accordance with ASTM E90.

Scope Manufacturers and distributors of school supplies, equipment, and instructional materials. Operating Divisions address the needs of manufacturers and users of auditorium, theater, bleacher, and classroom seating, as well as play ground equipment, and operable partitions.

Standardization Activities Operable Partition Section of NSSEA has endorsed ASTM E557-77 which provides a standard for the application and installation of operable partitions. Also issues testing procedures for measuring sound transmission loss.

Availability Distributed Directly.

Formerly National School Service Institute (1958)

Keywords partitions; school equipment; noise control; education; buildings;

NATIONAL SKI AREAS ASSOCIATION

Sid Roslund, Director of Technical Services

133 S. Van Gordon
Suite 300
Lakewood, Colorado 80228
(303) 987-1111 FAX: (303) 986-2345

Founded: 1962 Standards Staff: 1

**Type of
Organization**

Trade Association
Standards developer

**Standards
Development**

Standards Developer since 1963.

**Government
Adoption**

U.S. Department of Agriculture Forest Service, and
states where skiing exists.

Secretariat

National Ski Areas Association

Scope

A trade association of ski area operators and suppliers of ski
equipment. Twelve hundred members located in all states and
several foreign countries. Aims are to promote skiing and safety
in skiing, to protect natural resources in meeting the needs of
the skiing public and ski area operators, and to ensure legitimate
interests of ski area operators.

**Standardization
Activities**

Maintains committee composed of operators, users,
authorities having jurisdiction, manufacturers and independent
specialists of aerial ropeways. Developed the American National
Standard B77.1 for Passenger Tramways and Lifts, Surface Lifts,
and Tows. Promotes this standard for the ropeway industry, used
by ski lift manufacturers, ski area personnel, ski area insurance
programs, and state and federal authorities having jurisdiction.

Availability

Distributed through ANSI.

Keywords

aerial tramways; cable cars; cableways; ski lifts; sports; skiing;
recreation; ropeways;

NATIONAL SOFT DRINK ASSOCIATION

William L. Ball, III., President

1101 16th Street NW.
Washington, DC 20036
(202) 463-6732 FAX: (202) 463-8178

Founded: 1919 Standards Staff: 2

Type of Organization Trade Association
Standards Developer

Standards Development Three active standards.

Standards Designation VPS, ANSI/VPS, and VS prefixes.

Government Adoption PS 73-89 Carbonated Soft Drink Bottles (1989)

Scope Provides manufacturers of soft drinks throughout the United States and others interested in the welfare of the industry a forum to discuss matters of common interest, provides a medium for improving soft drink plant operating procedures, conducts research on problems relating to the industry, and provides informational and educational services in the interest of the consumer.

Standardisation Activities Instrumental in the development of voluntary standards or guide lines, designed for the betterment of the consumer and the bottling and packaging activities of the industry.

Availability Sold directly, through Government Printing Office, and ANSI.

Formerly American Bottlers of Carbonated Beverages (1967)

Keywords soft drinks; beverages; packaging;

NATIONAL BPA AND POOL INSTITUTE

Carvin Di Giovanni, Technical Director

2111 Eisenhower Avenue
Alexandria, Virginia 22314
(703) 838-0083 FAX: (703) 549-0493
e-mail: R.Galvin.NSPI@MCIMAIL.COM

Founded: 1956 Standards Staff: 2

Type of Organisation Trade Association
Standards Developer

Scope A national trade association comprised of approximately 4800 swimming pool builders, manufacturers, pool equipment manufacturers and suppliers, architects, engineers, public officials, and others allied with the pool industry. Sets guidelines and ethical standards for pool builders and service technicians by certification and education programs and adherence to ANSI Standards.

Standardization Activities Accredited by the American National Standards Institute (ANSI) as the United States standards developer for voluntary standards for residential in ground, residential aboveground (on ground) and public swimming pools; residential (portable and in ground) and public spas/hot tubs. Cooperates with the American Public Health Association, National Institutes of Health Center For Disease Control and Prevention, U.S. Consumer Product Safety Commission, National Safety Council, Underwriters Laboratories, National Sanitation Foundation, National Electrical Code, National Building Code Groups (BOCA, SBCCI, ICBO, CABO), National Recreation and Park Association and the Young Men's Christian Association (YMCA). Provides information and assistance to a number of government agencies and maintains liaison to a number of international swimming pool and spa organizations such as Aqua Europa, Administers technical committees in the areas of dimensional design, chemical treatment, circulation systems, accessory equipment and publications.

Availability Distributed directly.

Keywords swimming pools; spas; hot tubs; consumer products; safety; sanitation;

NATIONAL STANDARDS EDUCATORS ASSOCIATION

Walter J. McGee, Executive Director

Post Office Box 773
Placentia, California 92670
(714) 996-3682

Founded: 1987

Standards Staff: 3

Type of Organization Industrial education association
Works through other organizations to develop standards.

Representation Many members represented on standards committees of organizations such as ASME, ANSI, and ISO.

Certification The association has initiated its campaign for proficiency testing of the American work force in the field of dimensional metrology. In conjunction with the American Society of Mechanical Engineers, they have focused on the Y14 and B89 standards for its first personnel certification programs.

Scope A nonprofit organization of 100 industrial executives, managers, engineers, technicians, educators, and students that promotes, within United States industrial and educational societies, the significance and expert knowledge of those standards in common use within American industry.

Standardization Activities The association promotes the concept of "management by accountability." This concept fosters the use of certifications, accreditations, registrations, and licensures to combat the plague of standards illiteracy in America. It has warned industry that a nation that cannot relate to its own standards will not long be competitive in a global market requiring compliance to foreign and international standards. The association promotes testing of our industrial work force on proficiency in those standards and specifications common to their line of work.

Keywords education; quality assurance; management; general;

NATIONAL STONE ASSOCIATION - Pulverized Limestone Division

Larry Quinlivan, Vice-President, Marketing

1415 Elliot Place, NW
 Washington, DC 20007-2599
 (202) 342-1100

FAX: (202) 342-0702

Founded: 1990

Standards Staff: 2

Type of Organization

Professional and Trade Association
 Standards Developer

Standards Development

The Technical Committee of the PLD is made up of representatives from member companies. The committee reviews standards and test procedures for application to the pulverized limestone industry. Recommendations for adoption are made by the committee to member companies based on their findings.

Standards Designation

The PLD makes standards limestone materials available to its members, these standards are designated "PLD Standard XX-Y" (where XX is the last two digits of the year, Y is a sequential designation).

Certification No certification, qualification or accreditation program.

Scope The Pulverized Limestone Division promotes the general improvement of the manufacture and sales of finely ground limestone products so that consumers and the general public will be better served by the industry.

Standardization Activities The PLD standards and test procedures are made available to member companies to help assure consistent quality standards throughout the industry for the benefit of members and customers alike.

Availability Distributed directly.

Keywords minerals; agriculture;

NATIONAL TERRAZZO AND MOSAIC ASSOCIATION

Edward A. Grazzini, Executive Director

3166 Des Plaines Avenue
 Suite 132
 Des Plaines, Illinois 60018
 (708) 635-7744 FAX: (708) 635-9127

Founded: 1923 Standards Staff: 5

Type of Organisation Trade Association
 Standards Developer

Standards Development 25 active standards.

Government Adoption All technical manuals and design catalogs are accepted by Government agencies.

Scope Contractors who install terrazzo and mosaic work and firms which produce or manufacture materials. Provides information to building owners, architects, builders, and terrazzo contractors. Conducts research on installation methods.

Standardization Activities Maintains a Technical Committee and Quality Control Committee active in standards development. Publishes Technical Data Book which contains 25 standard national specifications for the installation of both cementitious and resinous terrazzo. Also develops standards on various application and grinding techniques.

Availability Distributed directly.
Keywords terrazzo; mosaic; construction; building; materials;

NATIONAL TIRE DEALERS AND RETREADERS ASSOCIATION

Gurnie Hobbs, Director
Membership Services Division

1250 I Street, NW
Suite 400
Washington, DC 20005
(202) 789-2300 FAX: (202) 682-3999

Founded: 1921 Standards Staff: 4

Type of Organization Trade Association
Standards Developer

Scope An organization of 5000 independent tire dealers and retreaders in the United States, Canada, and abroad. Concerned with matters which affect the tire dealer and his ability to do business including product development, marketing, legislation, new tires, retread, service, and after market areas. Heavily committed to retreading, NTDR maintains a field force of six highly qualified plant inspectors, inspecting 800 retread plants annually.

Standardization Activities Develops recommended industry standards to keep the science of retreading at a high level.

Availability Distributed directly.

Formerly National Association of Independent Tire Dealers
Absorbed the Tire Retreading Institute (1978)

Keywords tire; automotive service; automobile parts; retread; transportation;

NATIONAL WOOD WINDOW AND DOOR ASSOCIATION

Rio Markway, Vice President Technical Services

1400 E. Touhy Avenue
Des Plaines, Illinois 60018
(312) 299-5200 FAX: (312) 299-1286

Founded: 1926 Standards Staff: 3

Type of Organization Trade Association
Standards Developer

Standards Development Standards developer since early 1920's.
9 product standards; 9 test methods; 20 percent ANSI.

Standards Designation Industry Standards, I.S.

Government Adoption HUD, Farmers Home Administration, DoD, and others

Certification Wood Flush Door, Window, Sliding Patio Door, Swinging Patio Door, Skylights/Roof Windows, and Water Repellent Preservative Programs and National Fenestration Rating Council.

Scope Represents over 130 manufacturers and material suppliers in the wood window and door industries.

Standardization Activities Active in product standard research and development. Works with ASTM and ASHRAE in the development of standards for the industry. NWWDA standards are referenced by the federal government, architects, specifiers, builders, and building product suppliers.

Availability Sold directly.

Formerly National Woodwork Manufacturers Association (1986)

Keywords windows; doors; millwork; building; wood products;

NATIONAL WOODEN PALLET AND CONTAINER ASSOCIATION

John J. Healy, Executive Vice President

1800 North Kent Street
Suite 911
Arlington, VA 22209-2104
(703) 527-7667 FAX: (703) 527-7717

Founded: 1947 Standards Staff: 2

Type of Organization Trade Association
Standards Developer

Standards Development Standards development was initiated in 1990 and 150 members and nonmembers participate. Developer of The Uniform Standard for Wooden Pallets which has been processed through ANSI.

Certification SPEQ is a certification program affording pallet customers the opportunity to design a pallet specifically engineered to their performance needs. Once armed with a PDS design, adherence to the quality provisions of the standard is checked by an independent third party inspection service. Upon successfully passing periodic random audits, SPEQ suppliers/recyclers are recertified and permitted to mark their product to indicate compliance.

Scope Trade association consisting of pallet and container manufacturers, recyclers, brokers, and associated industries. International membership exceeding 550 companies. NWPCA mission is to assist members to create cost-effective, environmentally responsible solutions to meet their customers changing unit load material handling needs. Primary activities include sponsoring industrial research and development, standards development, trade promotion, education, and legislative/regulatory monitoring.

Standardization Activities Developed the first U.S. Industrial standard for the manufacture and repair of wood pallets. Introduced in 1994, and processed for adoption as an ANSI standard. Uniform Standard for Wood Pallets is a quality assurance standard designed to complement customer's pallet performance requirements and standards. Also complements the Pallet Design System (PDS), the first computer-aided design (CAD) system for wood pallets. PDS and the Standard serve as the base programs for the Specified Pallets, Engineered for Quality (SPEQ) Program.

Availability Copies of the Standard are available directly from NWPCA.

Formerly Merger of National Wooden Box Association and National Wood Pallet Manufacturers Association (1947)

Keywords pallets; paletization, unit load management; packaging; containers;

NCCLS - THE CLINICAL LABORATORY STANDARDS ORGANIZATION

John V. Bergen, Ph.D., Executive Director

940 West Valley Road
 Suite 1400
 Wayne, Pennsylvania 19087
 (610) 688-0100

FAX: (610) 688-0700

Founded: 1968

Standards Staff: 23

Type of Organization

Voluntary Consensus Standards Developer

Standards Development	<p>Accredited by ANSI.</p> <p>Over 1800 scientists participate in 155 projects 128 standards and guidelines available; 54 at approved level, 25 at tentative level, and 49 at proposed level</p> <p>Approximately 20 percent of NCCLS standards are processed through ANSI for designation as American National Standards 179 active members (professional organizations, governmental agencies, industrial organizations) 1600 corresponding members (hospitals, state agencies, universities, clinical laboratories, international organizations).</p>
Standards Designation	<p>NCCLS standards are designated by a code indicating the discipline, the project number, the publication level and, if applicable, the edition; e.g., GP18-P (General Laboratory Practices/Proposed), M2-A5 (Microbiology/Approved/5th Edition).</p>
Secretariats	<p>Administrator of ISO/TC 212, Clinical Laboratory Testing and In Vitro Diagnostic Test Systems; Technical Advisory Group ISO/TC 212; Technical Advisory Group ISO/TC 76, Transfusion, Infusion, and Injection Equipment for Medical Use.</p>
Certification	<p>Administers the National Reference System for the Clinical Laboratory (NRSCL) which provides the scientific basis to ensure that clinical laboratory tests results can be interchanged within defined limits of accuracy and precision.</p>
Scope	<p>An international, interdisciplinary, nonprofit organization that serves the world's medical science community by improving the quality of laboratory practices and medical testing through voluntary consensus processes. In addition to developing voluntary consensus standards and guidelines, NCCLS maintains a communication forum for its laboratory constituencies to address and resolve issues that are critical to laboratory quality. NCCLS's membership is made up of medical laboratory professional associations, agencies of the federal, state, and provincial governments, manufacturers of laboratory equipment and reagent products, trade associations, and individual health care provider institutions and clinical laboratories. Members participate in the development of proposed, tentative, and approved NCCLS standards and guidelines.</p>
Standardization Activities	<p>Develops standards in eight areas: clinical chemistry, evaluation protocols, general laboratory practices, immunology and ligand assay, hematology, microbiology, molecular methods, and alternate site testing.</p>

Publications focus on laboratory procedures, bench and reference methodologies, and scientific evaluation protocols, providing realistic standards and guidelines for clinical laboratory testing. Standards publications include those relating to antimicrobial susceptibility testing, blood collection, and clinical laboratory instrumentation.

Availability Distributed directly. Interested parties may obtain a complimentary subscription to "Standards Status" providing announcements related to the status of NCCLS standards development including information on availability of proposed and tentative standards for review and comment, and announcements of publication of approved standards.

Formerly National Committee for Clinical Laboratory Standards

Keywords clinical chemistry; medical instruments; laboratory; testing; immunology; hematology; microbiology; ligand assay; molecular methods; public health; reference technology; physician's office laboratory; alternative site testing;

NEBRASKA POWER LABORATORY

Dr. Louis I. Leviticus

BSEL Building - East Campus
University of Nebraska
Lincoln, Nebraska 68583-0932
(402) 472-2442 FAX: (402) 472-8367
e-mail: BSENO11@UNLVM.UNL.EDU

Founded: 1926

Type of Organization Testing, research and development organization
Standards Developer

Representation Represented on relevant SAE, ASAE and OECD committees as well as active in ISO Technical Advisory groups

Certification Witness certification tests at manufacturer's facilities. Cooperates in performing laboratory services for other organizations and is active in international standards development. Chief activity is testing and research for performance, protective structure and noise testing of tractors according to SAE and OECD standards.

Standardization Activities Develop new standards to meet new technology requirements such as test methods for new biofuels, including exhaust emissions testing.

Keywords agricultural equipment; tractors; acoustics; emissions;

NETWORK MANAGEMENT FORUM

Elizabeth Adams, Managing Director

1201 Mt. Kemble Avenue
Morristown, New Jersey 07960
(201) 425-1900 FAX: (201) 425-1515
e-mail: eadams@nmf.org

Founded: 1988 Standards Staff: 9

Type of Organization Nonprofit Industry Consortium

Standards Development Create procurement and development specifications based on international standards in the telecommunications industry which serve as implementation agreements for automating and integrating management systems.

Standards Designation Business level agreements designated as "SMART"
Management systems interface specifications designated as OMNIPoint.
Computing platform specifications designated as SPIRIT.

Government Adoption Documents are used by DISA and are part of the GNMP document.
Also adopted by Canadian, British and Australian governments.

Certification No certification programs.

Scope The NMF has more than 160 members in 30 countries. It is an international forum of telecom service providers, computer and communications system suppliers and enterprise network operators focused on the problems of managing complex service networks. It serves as a place where cross-industry, worldwide agreement can be reached on the key issues that enable timely deployment of high quality, cost effective telecommunications services.

Standardization Activities NMF establishes working teams to investigate and determine business requirements, information exchange agreements and technical specifications. Work is done in conjunction with other standards bodies and organizations such as ITUT, ANSI T1, IETF, OIW, AOW, ETSI, X/Open, OSF, OMG, ATMF and ATIS.

The NMF does not create standards. Rather, it takes base standards, matches them to a specific business problem then refines them to a specific enough level of detail through the consensus of its membership so that interoperability between systems is assured.

Results are published in a series of guidebooks, papers, Solution Sets (specifications) and electronically.

Availability

Distributed directly, through Phillips Publishing and electronically at <http://www.nmf.org>.

Keywords

network management; service management; OSS; process re-engineering; telecommunications management;

NORTH AMERICAN DIE CASTING ASSOCIATION

Derek L. Cooks, Technical Director

2000 North Fifth Avenue
River Grove, Illinois 60171-1992
(312) 452-0700 FAX: (312) 452-0147

Founded: 1954 Standards Staff: 2

Type of Organization

Trade Association
Works through other organizations to develop standards

Scope

A not-for-profit organization which serves the interests of its members with the overall objectives of improving industry technology productivity and profitability. Member services include providing information and statistics for managers, administrators and engineers. The association has active research and educational programs and produces a considerable number of publications of both technical and managerial nature.

Standardization Activities

The association maintains close links with organizations which set (or are involved with) standards pertaining to the die casting industry. These include the American National Standards Institute, the American Society for Testing Materials, Occupational Safety & Health Administration and the Environmental Protection Agency.

Formerly Consolidation of American Die Casting Institute and the Society of Die Casting Engineers

Keywords die casting; cast metals; net shape; metals;

NORTH AMERICAN INSULATION MANUFACTURERS ASSOCIATION

Kenneth D. Mentzer, Executive Vice President

44 Canal Center Plaza
Suite 310
Alexandria, Virginia 22314
(703) 684-0084 FAX: (703) 684-0427

Founded: 1933 Standards Staff: 1

Type of Organization Trade Association
Works through other organizations to develop standards

Representation Members active in ASTM C15 and E6; ASHRAE TC 4.4; Model building code organizations; ISO committees concerned with insulation.

Certification Initiated, with NAHB Research Center, programs for the certification of mineral fiber batts, blankets, loose wool and metal building insulations.

Scope A nonprofit organization rendering services to promote energy-efficiency and environmental preservation through the safe manufacture and use of fiber glass, rock wool and slag wool insulation products.

Standardization Activities Develops standards and specifications, national in scope, referring to fiber glass, rock wool and slag wool insulation products. Cooperates with and advises government agencies at all levels on thermal performance standards that will contribute to the conservation of energy. Also advises and consults with other energy suppliers and professional organizations regarding standards, research, applications, and other related matters.

Formerly National Association of Rock and Slag Wool Industries (1933)
National Rock and Slag Wool Association (1936)
National Mineral Wool Association (1938)
National Mineral Wool Insulation Association (1960)
Mineral Insulation Manufacturers Association, Inc. (1978)
Mineral Insulation Manufacturers Association

Keywords mineral wool; mineral fiber; rock wool; fiberglass; insulation;
energy conservation; building; materials;

NORTHEASTERN LUMBER MANUFACTURERS ASSOCIATION

Stephen S. Clark, Executive Vice President

272 Tuttle Road
Post Office Box 87A
Cumberland Center, Maine 04021
(207) 829-6901 FAX: (207) 829-4293

Founded: 1933 Standards Staff: 2

Type of Organization Trade Association
Standards Developer

Scope A nonprofit, private organization that promotes the welfare and advancement of the interests of northeast lumber producers.

Standardization Activities A grading agency under the ALSC; maintains a Grading Committee which develops Standards and NELMA Grading Rules. Also serves as the rules writing agency for the northeast for the American Lumber Standards Committee Board of Review. Administers National Grading Rule for Dimension Lumber.

Availability Distributed directly.

Keywords lumber; timber; grading rules; inspection; wood; building;

NORTHERN TEXTILE ASSOCIATION

see **ELASTIC FABRIC COUNCIL**
and **FELT MANUFACTURERS COUNCIL**

NSF INTERNATIONAL

Diana Knoll, Publications Supervisor

3475 Plymouth Road
Ann Arbor, Michigan 48105
(313) 769-8010 FAX: (313) 769-0109
WWW: <http://www.nsf.com>

Founded: 1944

Standards Staff: 11

**Type of
Organization**

Standards Developer and Testing Organization

**Standards
Development**

Standards developer since 1944.
43 active standards and criteria.
Voluntary program involving the active cooperation and participation of the manufacturer, the user, and the regulatory officials.
Accredited by ANSI.
33 standards processed through ANSI.

**Government
Adoption**

Many United States regulatory jurisdictions require by law, regulations, or department policy, products which comply with NSF standards or criteria.

Certification

Products determined in compliance with NSF standards or criteria by NSF Certification Services are authorized for listing and display the NSF Mark.

Scope

A noncommercial and not-for-profit standards writing, research, testing, and educational organization. Seeks answers in environmental health and establish public and environmental health standards with the cooperation of all concerned.

**Standardization
Activities**

Involves approximately 2300 domestic and foreign manufacturers who use the NSF Mark on products meeting the applicable standard or criteria. Publishes and distributes a list of available standards as well as annual listings covering food service equipment, plastic piping system components and materials, swimming pool equipment, drinking water direct and indirect additives, and special categories, including plumbing components for mobile homes and recreational vehicles, water and wastewater treatment devices, bio-hazard cabinetry, and flexible membrane liners and environmental management systems.

Availability

Distributed directly and through IHS and Global.

Formerly

National Sanitation Foundation

Keywords:

food equipment; plastic pipe; swimming pool; mobile homes; recreational vehicles; water; waste; environment; public health; sanitation; building; environmental management; drinking water additives;

OPTICAL LABORATORIES ASSOCIATION

Robert I. Dziuban, Executive Director

P.O. Box 2000
Merrifield, Virginia 22116-2000
(703) 359-2930 FAX: (703) 359-2834

Founded: 1894 Standards Staff: 1

Type of Organization Trade Association
Standards developer

Representation Represents its American members to both ASTM and ANSI by providing relevant data and input to the creation of consensus standards which affect the manufacturer, laboratory, professional, and consumer.

Secretariats ANSI Committee Z80, Ophthalmic Standards

Scope An association for independent ophthalmic prescription eyeglass and contact lens fabricators located in the United States, Canada, and other foreign countries.

Standardisation Activities Its primary objective is the creation and maintenance of voluntary standards which meet the safety and effectiveness needs of the consumer by providing products which perform within the current state of the manufacturing art.

Participates with industry and professionals in the maintenance of existing standards to eliminate design in favor of performance requirements wherever possible, and to keep industry standards in line with advances in technology. As new technologies develop, the Association assumes an active role in the assessment of proper performance standards and testing techniques.

Availability Distributed directly.

Formerly American Association of Optical Wholesalers (1894)
Central States Wholesalers Association (1939)
Association of Independent Optical Wholesalers (1942)
Optical Wholesalers Association (1962)
Optical Laboratories Association (1977)

Keywords ophthalmic products; eyeglass; spectacle; contact lens; optical laboratory; low vision aids; intraocular lenses; ophthalmic instruments; frames; sunglasses;

OPTICAL PRODUCT CODE COUNCIL

Administrator:
Optical Industry Association
6055A Arlington Boulevard
Falls Church, Virginia 22044
(703) 237-8433 FAX: (707) 237-0643

Founded: 1984 Standards Staff: 1

Type of Organization Trade Association
Works with others to develop standards

Representation Central management and information center for manufacturers and users of bar code system.

Secretariats ANSI; ASCII

Scope An association of manufacturers of frames, lenses, and contact lenses in the United States who are users of a standard ordering system for the efficient transfer of products from component manufacturers to processing laboratories.

Standardization Activities The primary objective is the creation and maintenance of voluntary standards for computerized product coding using bar code and data transmission specifications.

Availability Distributed directly.

Keywords optical frames; lenses; ophthalmic products;

OPTICAL SOCIETY OF AMERICA

Margaret Edjill, Program Development Manager

2010 Massachusetts Avenue, NW
Washington, DC 20036
(202) 416-1960 FAX: (202) 223-1096
WWW: <http://www.osa.org>
WWW: http://prog_dev@osa.org

Founded: 1916 Standards Staff: 1

Type of Organisation Scientific Society
Standards Developer

Scope Primary purpose is to increase and diffuse the knowledge of optics in all its branches, pure and applied; to promote the mutual interests of investigators of optical problems, of designers, manufacturers, and users of optical instruments and apparatus of all kinds; and to encourage cooperation among them.

**Standardization
Activities**

Standardization and specification work is handled by a joint society committee which publishes reports in the society's journal on visual sensitometry; colorimetry; photometry; standard wavelengths; nomenclature and standards; photography; radiometry; and spectrophotometry. The most elaborate of these technical reports appeared as a book, The Science of Color, and as a set of uniformly spaced color samples. Cooperates with other technical organizations in standardization within the various branches of optics. Has a standing committee for review of ISO standards. Cooperates actively with the International Commission for Optics, the International Commission on Illumination and the American National Standards Institute. Maintains representation on boards or committees of the American Institute of Physics, the National Research Council, the American Association for the Advancement of Science, and the Inter-Society Color Council.

Availability

Sold directly.

Keywords

optics; optic instrumentation; colorimetry; photography;

ORTHOPEDIC SURGICAL MANUFACTURERS ASSOCIATION

Max Sherman, Executive Secretary

Post Office Box 1846
Warsaw, Indiana 46581-1846
(219) 269-1928 FAX: (219) 267-3845

Founded: 1955

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Representation

ASTM, ISO, and ANSI

Scope

Manufacturers and distributors of orthopedic devices and instrumentation used in reconstructive surgery done by orthopedic surgeons. Established to promote the patient's best interest by standardization of materials and sizing. Develops guidelines, fosters research, disseminates knowledge and information relating to scientific and practical problems, cooperates with professional health associations, interfaces with governmental agencies, and promotes high ethics in all phases of the surgical supply industry.

Standardization Activities 24 member firms have employees active in development of medical device standards. Representatives serve as officers and members of various standards development organizations including ASTM, ISO, and ANSI. They participate in policy making decisions and in the content of test methods and standards pertaining to medical devices.

Keywords orthopedic surgery; medical devices;

OUTDOOR POWER EQUIPMENT INSTITUTE

Dennis C. Dix, President and CEO

341 South Patrick Street
Alexandria, Virginia 22314
(703) 549-7600 FAX: (703) 549-7604

Founded: 1952 Standards Staff: 2

Type of Organization Trade Association
Standards Developer

Standards Development Standards developer since 1956.
78 members participate in standards activities.
All OPEI sponsored standard are developed under ANSI's
Canvass Procedures. All draft standards are available for review.

Certification Through the services of an independent testing
laboratory, OPEI conducts a 3rd party voluntary certification
program for each of the OPEI sponsored voluntary standards
approved and published by ANSI.

Secretariats For each of the standards listed above and U.S.
Technical Advisory Group to ISO/TC 23/SC 13, Powered Lawn and
Garden Equipment.

Scope A national trade association representing manufacturers of power
lawn mowers, snow throwers, roto tillers, commercial turf care
equipment, garden tractors and related equipment and attachments.

Standardization Activities Developed ANSI B71.1 Power Lawn Mowers; B71.3, Snow
Throwers; B71.4, Commercial Turf Care Equipment; B71.5, Sourd Test
Method; B71.6, Shredder/Grinders; B71.7, Logsplitters; and B71.8,
Tillers.

Availability Published standards may be obtained through ANSI.
Draft proposed standards may be obtained directly.

Formerly Lawn Mower Institute, Inc.

Keywords lawn equipment; lawn mowers; snow throwers; shredders; logsplitters; roto tillers; garden tractors; agriculture; acoustics; consumer products;

PACKAGING MACHINERY MANUFACTURERS INSTITUTE

Charles D. Yuska, President

4350 North Fairfax Drive
Suite 600
Arlington, Virginia 22203
(703) 243-8555 FAX: (703) 243-8556

Type of Organization Trade Association
Works through other organizations to develop standards

Scope A voluntary nonprofit association of United States companies manufacturing packaging machinery and packaging-related converting machinery. Seeks to solve problems of the packaging machinery industry and provides information and services to member companies, users of packaging and converting machinery, the Government, and the general public.

Standardization Activities Maintains Product Safety and Technical Information Committees. A member of the American National Standards Institute and supports its work with the International Organization for Standardization. Works with the Occupational Safety and Health Administration to publish a safety standard for the Care, Use, and Construction of Packaging Machinery.

Cooperates with associations such as the Fibre Rox Association and the Adhesives Manufacturers Association of America in promoting recommended practices on the storage, maintenance, and application of adhesives used in conjunction with automatic packaging machinery.

Keywords packaging; machinery;

PAINTING AND DECORATING CONTRACTORS OF AMERICA

Paula D. Clements, Executive Director

3913 Old Lee Highway, Suite 33B
Fairfax, Virginia 22030
(703) 359-0826 FAX: (703) 359-2576

Founded: 1884

Type of Organization Trade Association
Works through other organizations to develop standards

Scope Represents painting and decorating contractors throughout the United States. Endeavors to maintain high standards of workmanship and safety in the painting, decorating, drywall, wallcovering, and coating industries. Committee activities involve labor, public, and government relations.

Standardization Activities Works with the National Safety Council, OSHA, ANSI, and other organizations such as Associate Specialty Contractors, American Subcontractors Association to develop standards for wall covering, scaffolding and ladders, and general safety in the industry.

Keywords painting; wallcovering; safety;

PAPERBOARD PACKAGING COUNCIL

John A. McIntyre, President

888 17th Street, NW
Suite 900
Washington, DC 20006
(202) 289-4100 FAX: (202) 289-4243

Founded: 1967 Standards Staff: 2

Type of Organization Trade Association
Develops recommended practices

Scope A nonprofit national trade association representing companies in the production and conversion of paper-board into folding cartons and packages. Functions include marketing information and statistics, industrial relations, safety, technical and production, and government affairs.

Standardization Activities Maintains a Technical and Production Committee, and special ad hoc groups established for the administration of standards activities.

Issues guidelines and standards for the paperboard packaging industry, as a set of voluntary industry standards and specifications recommended for users and suppliers of folding paper cartons. Cooperated with the federal government in the development of simplified practice recommendations for margarine cartons, rectangular ice cream cartons, and bacon carton. Involved in standards for printing nutritional labeling and Universal Product Code symbols on fluid milk cartons. Also cooperates with the Government in reviewing and commenting on federal specifications.

Availability Distributed directly.

Formerly Merger of several groups including the Folding Paper Box Association and The Institute for Better Packaging.

Keywords packaging; containers; cardboard;

PERLITE INSTITUTE

Paul J. Julius, Managing Director

88 New Dorp Plaza
Staten Island, New York 10306
(718) 351-5723 FAX: (718) 351-5725

Founded: 1949 Standards Staff: 2

Type of Organization

Trade Association
Standards Developer

Standards Development

Standards developer since 1949.
65 members participating in standards activities.
20 active standards.
None processed through ANSI.
Draft standards not available for review.

Standards Designation

PI prefix.

Government Adoption

Various government agencies have adopted ASTM standards on perlite including GSA, FHA, and VA.

Scope

A national and international nonprofit trade association which sponsors research leading to standardization of specifications and methods of testing perlite and perlite products. Collects data, initiates and correlates research, and develops specifications and test methods. Cooperation with technical and engineering societies, other trade associations, and government agencies interested in standards.

Standardization Activities

Activities are directed toward fulfilling producer, and customer requirements. Works closely with Underwriters Laboratories (UL), International Conference of Building Officials (ICBO), Southern Building Code Conference International (SBCCI), National Institute of Standards and Technology (NIST), Building Officials and Code Administrators (BOCA), and other agencies and industry organizations.

Publishes test methods and related standards containing test methods for evaluating quality of expanded perlite, and American Society for Testing and Materials specifications applicable to perlite. Publishes standards for perlite products used in building, industrial, and horticultural industries.

Availability Distributed directly.

Keywords perlite; insulation; aggregate; abrasives; materials;

PERSONAL COMPUTER MEMORY CARD INTERNATIONAL ASSOCIATION

Bill Lempeis, Executive Director and COO

2635 N. First Street
Suite 209
San Jose, California 95134
(408) 433-2273 FAX: (408) 433-9558
e-mail: blempeis@pcmcia.org
WWW: <http://www.pc-card.com>

Founded: 1989 Standards Staff: 9

Type of Organization Trade Association
Standards Developer

Standards Development Develop standards for PC cards.

Scope Association of over 500 companies representing computer manufacturers.

Standardization Activities Promote the worldwide adoption of PC Card technology by defining technical specifications and proactively marketing the technology.

Availability Distributed directly.

Keywords PC Card; PCMCIA; mobile computing; computers; computer peripherals; security cards;

PHARMACEUTICAL RESEARCH AND MANUFACTURERS OF AMERICA

Thomas X. White, Associate Vice President,

1100 15th Street, NW
Washington, DC 20005
(202) 835-3546 FAX: (202) 835-3797

Founded: 1958

Type of Organization Trade Association
Works through other organizations to develop standards

Representation Participates in standards developing activities of the Food and Drug Administration, the U.S. Pharmacopoeia, the National Formulary, AAMI, ANSI, ASTM, and other public and private standards setting organizations.

Scope A nonprofit trade organization representing firms that discover, develop, and produce prescription drugs and biological products. The Association's members produce most of the prescription drugs marketed in the United States, and a large part of the world's supply. The Association's principal objectives are: (1) to encourage high standards in the research, development, production and marketing of drug products; (2) to develop and disseminate information about the pharmaceutical industry to the public, all levels of government, the media, international organizations, and other groups; (3) to help keep industry abreast of government actions and public concerns; and (4) to work with member companies, other health related organizations, government and consumer entities, and the public to advance medical science and improve health-care services.

Standardization Activities Participates in developing methods of analysis and standards for drugs and biologicals. Participation is either by staff (approximately one to two person years per year) or representatives of member companies drawn from PhRMA's Science and Regulatory Sections.

Formerly Pharmaceutical Manufacturers Association (name change May 1994)

Keywords drugs; pharmaceuticals; biologicals; health care;

PHOTOGRAPHIC SOCIETY OF AMERICA

Terry S. Stull, Operations Manager

3000 United Founders Boulevard
Suite 103
Oklahoma City, Oklahoma 73112
(405) 843-1437

Founded: 1933

Standards Staff: 10

Type of Organization User Association
Standards Developer

Standards Development 3 active technical standards.
8 active uniform practices.

Standards Designation PSA Technical Standards.
PSA Uniform Practices.

Scope A nonprofit organization, international in scope.
Promotes the arts and sciences of photography and furthers public education in the field. Interests of members include the uses of all types of photographic materials, their applications, and characteristics of their manufacturer.

Standardization Activities Through its Technical Standards Committee, formulates technical standards. Affiliated with ANSI and has representatives on PH sectional committees on photography, as well as membership on the Photographic Technical Advisory Board. Representatives selected to represent its interests are chosen on the basis of their competence as users and their technical knowledge in the field. Establishes practices and requirements for judging and exhibition, safe handling, and other rules which contribute to the success of international photographic and camera events on a worldwide basis.

Availability Distributed directly.

Formerly Associated Camera Clubs of America

Keywords photography; camera; film;

PIPE FABRICATION INSTITUTE

Lois A. Moore, Executive Director

Post Office Box 173
612 Lenore Avenue
Springdale, Pennsylvania 15144
(412) 274-4722 FAX: (412) 274-4722

Founded: 1913 Standards Staff: 1

Type of Organization Technical Society
Standards Developer

Scope Producers and designers of high pressure/high temperature piping systems for chemical plants, refineries, central power stations, and ships; concerned with technical and economic problems of the piping industry.

Standardization Activities The standards and technical bulletins developed by the Engineering Committee cover the design, fabrication and erection of industrial and high pressure/high temperature piping to meet the requirements of power plants including nuclear, fossil, chemical, petroleum, and process piping. Through its members, the institute is officially represented on various code bodies and national engineering societies.

Availability Distributed directly and through IHS.

Keywords pipe; pipe fabrication; industrial equipment;

PIPE LINE CONTRACTORS ASSOCIATION

J. Patrick Tielborg, Managing Director and General Counsel

1700 Pacific Avenue, Suite 4100
Dallas, Texas 75201-4575
(214) 969-2700 FAX: (214) 969-2705

Founded: 1947

Type of Organization Trade Association
Works through other organizations to develop standards

Representatives Four contractor members serve on the API-AGA 1104 Joint Welding Committee composed of industry representatives and sponsored by the American Petroleum Institute and the American Gas Association.

Scope Association of contractors, equipment manufacturers, suppliers, and dealers of main-line pipe line. Represents the industry in labor negotiations. Promotes cooperation, efficiency, and safety in the main-line pipe line construction industry.

Standardization Activities Reviews and revises API Standard 1104, Standard for Welding Pipe Lines and Related Facilities.

Keywords petroleum pipe lines; construction;

PLASTICS PIPE INSTITUTE

A division of The Society of the Plastics Industry

Thomas S. Walsh, PhD, Executive Director

1275 K Street, NW
Suite 400
Washington, DC 20005
(202) 371-5306

FAX: (202) 371-1022

Founded: 1949

Standards Staff: 4

**Type of
Organization**

Trade Association
Standards Developer

Scope

Dedicated to creating broader markets and market opportunities for plastics pipe and related products.

**Standardization
Activities**

Maintains a Technical Committee which represents its members in Standards Writing and Code Writing organizations, including: ASTM F-17, Thermoplastic Piping Systems; ANSI B31.3, Chemical and Petroleum Piping Code; American Petroleum Institute, (oil and gas production piping); American Water Works Association, (water distribution piping); the National Sanitation Foundation (potable water quality); North American Society For Trenchless Technology; National Association of Sewer Service Co.

Maintains a Hydrostatic Stress Board which writes standard policies and procedures for the forecasting of the long-term strength of plastic piping products and plastics piping thermoplastic materials. The Board also issues listings of Hydrostatic Design Stress recommendations for thermoplastics materials. These recommendations are referenced by many ASTM and other standards.

The Fuel Gas Division develops educational material used by gas companies and federal and state agencies for the training of operators and inspectors in proper and safe use of plastics gas piping; maintains close liaison with Department of Transportation and other government agencies which regulate the use of plastics piping for fuel gas; maintains close liaison with user group technical committees such as those of the American Gas Association and the American Petroleum Institute.

The Municipal and Industrial Division develops technical information, guides and manuals related to the use of plastics piping for municipal and industrial applications; it represents members before appropriate associations and organizations.

The Municipal and Industrial Division assists AWWA in development of appropriate standards and maintains liaison with key government agencies including EPA, HUD, etc.

Availability Distributed directly.

Keywords plastic pipe; pipe; building; construction; gas distribution; water distribution; sewer and waste; industrial; trenchless technology;

PLUMBING AND DRAINAGE INSTITUTE

Sol Baker, Executive Director

1106 W 77th Street, South Drive
Indianapolis, Indiana 46260-3318
(317) 251-6970 FAX: (317) 253-8295

Standards Staff: 1

Type of Organization Trade Association
Standards Developer

Standards Development 9 active standards.
7 processed through ANSI.

Standards Designation PDI-G, PDI-NH, and ANSI prefixes.

Government Adoption Used extensively by General Services Administration, Department of the Army, Coast Guard, and Department of Veterans Affairs.

Certification Provides certified testing, rating, and installation procedures for grease interceptors and water hammer arresters. Testing equipment is maintained by independent laboratories. Furnishes certification seals which provide evidence that a product has met PDI performance standards.

Scope An association of manufacturers of plumbing and drainage products. Promotes the advancement of plumbing engineering and the plumbing industry through public relations, research, and product standardization.

Standardization Activities Maintains an Engineering Committee which engages in product certification and standards development in the areas of backwater valves, hydrants, floor and roof drains, grease interceptors, water-hammer arresters, plumbing fixture supports, and cleanouts. Cooperates with the American Society of Mechanical Engineers in the development of ANSI standards.

Availability Distributed directly and through ASME.

Formerly Plumbing and Drainage Manufacturers Association (1954)
Plumbing Manufacturers Association (1949)

Keywords plumbing; drainage products; building; sanitation;

POLYURETHANE MANUFACTURERS ASSOCIATION

Richard Church, Executive Director

800 Roosevelt Road, Building C
Suite 20
Glen Ellyn, Illinois 60137
(708) 858-2670 FAX: (708) 790-3095

Founded: 1971

Type of Organization Trade Association
Standards Developer

Scope A private, nonprofit trade association of companies involved in the manufacture of solid polyurethane thermosetting elastomers and their related chemical and equipment suppliers. Promotes and maintains an organization for the mutual advancement and welfare of its members and the polyurethane industry.

Standardization Activities Maintains a Standards Committee whose purpose is to select and standardize physical test procedures suitable for use with solid polyurethane elastomers, and to promote and disseminate these recommended practices throughout the industry. The two phase program consists of evaluation and selection of existing specifications suitable for use with solid polyurethane; and modification of new test procedures suitable for use as an educational tool. Specifications booklet being revised to include new standards for cast urethanes and specifications for RIM processing of urethanes.

Availability Distributed directly.

Keywords polyurethane; materials;

PORCELAIN ENAMEL INSTITUTE

Donald R. Sauder, Executive Vice President

102 Woodmont Boulevard
Suite 360
Nashville, Tennessee 37205
(615) 298-1250 FAX: (615) 298-9858

Founded: 1930 Standards Staff: 2

Type of
Organization

Trade Association
Standards Developer

Standards
Designation

PEI, ASTM, and ANSI prefixes.

Scope

Manufacturers of major appliances and sanitaryware with porcelain enameling facilities contract porcelain enamel companies and suppliers to the industry. Conducts market development programs, develops test methods for evaluation of porcelain enamel properties.

Standardization
Activities

Works primarily through the voluntary standards development system utilizing the committee system of ASTM and ANSI. Also develops and maintains standards and specifications for specialized sectors of the porcelain enameling industry. In addition, serves as conduit of industry input into government-initiated standards.

Availability

Distributed directly.

Keywords

porcelain enamel; appliances; plumbing fixtures; cookware; materials;

PORTABLE POWER EQUIPMENT MANUFACTURERS ASSOCIATION

Donald E. Purcell, President

4720 Montgomery Lane
Suite 812
Bethesda, Maryland 20814
(301) 652-0774 FAX: (301) 654-6138

Founded: 1977 Standards Staff: 2

Type of
Organization

Trade Association
Works through other organizations to develop standards

Certification

No certification, qualification, or accreditation programs.

Secretariats ANSI B175 Committee.
U.S. TAG for ISO/TC 23/SC 17.

Scope A nonprofit industry organization representing manufacturers of gasoline and electrically powered chain saws and their component parts.

Standardization Activities PPEMA standardization programs are confined to participation in the development of standards under the auspices of national and international voluntary standards setting organizations, and in cooperation with federal and state government agencies. These programs include not only those sponsored or initiated by PPEMA and its members but also those recommended by government agencies. Participated in the development of ANSI B175.1 Safety Requirements for Gasoline Powered Chain Saws, 1979; and B175.1a, Supplement to Safety Requirements for Gasoline Powered Chain Saws, 1983.

Formerly Chain Saw Manufacturers Association

Keywords chain saws; saws; industrial equipment;

PORTABLE SANITATION ASSOCIATION

William F. Carroll, Executive Director

7800 Metro Parkway, Suite 104
Bloomington, Minnesota 55425
(612) 854-8100 FAX: (612) 854-7560

Founded: 1971 Standards Staff: 3

Type of Organization Trade Association
Standards Developer

Standards Developer Standards developer since 1976
3 active standards
35 members participating in standards activities
Processed through ANSI
Draft standards available for review

Certification Portable Sanitation Health and Safety Worker Certification.

Secretariats ANSI Z4.1, Z4.3, Z4.4.

Scope An international trade association that represents U.S. and foreign firms engaged in the leasing, renting, selling, and manufacturing of portable sanitation equipment, services and supplies for construction, recreation, emergency, and other uses. Devoted to the proper handling of human waste by the most modern,

sanitary means, giving the greatest concern to the preservation of an unspoiled environment.

**Standardization
Activities**

Develops standards directed toward providing clean, sanitary restroom facilities for any gathering of people that do not have adequate permanent facilities close at hand. Assists manufacturers supplying the industry in market research and types and kinds of equipment which will fill these needs.

Recommends standards to BOCA, SBCCI, OSHA, Council of American Building Officials (CABO), IAPMO, and various other state, county, and local health departments.

Standards include minimum sanitation requirements for temporary labor camps to protect the health and safety of persons residing in the camps or in the vicinity of the camps. Also provides standards for adequate toilet facilities in places of employment.

Availability

Distributed through ANSI.

Keywords

sanitation; toilets; public health;

PORTLAND CEMENT ASSOCIATION

John P. Gleason, Jr., President

5420 Old Orchard Road
Skokie, Illinois 60077
(708) 966-6200

FAX: (708) 966-8389

Founded: 1916

Standards Staff: 11

**Type of
Organization**

Trade Association
Works through other organizations to develop consensus standards

Representation

Staff members are active in three model codes organizations and eight standards organizations, serving on seventy committees of ASTM, ANSI, ACI, ASCE, AASHTO, AREA, NFPA, ASHRAE, and others.

Certification

Construction Technology Laboratories (CTL), a contract research facility wholly owned by PCA, provides compliance certifications to clients in the form of test and/or investigative reports on a project-by-project basis. CTL does not have a product labeling program, nor associated product qualification programs.

Secretariats Secretary for the American Concrete Institute's (ACI) 318 Committee which writes the Building Code Requirements for Reinforced Concrete referenced in building codes throughout the nation and used by all structural design professional.

Scope Represents the cement manufacturing industry. Serves the industry by extending and improving the uses of cement and concrete through research and development, market promotion, educational programs, and public affairs activities including representation with government. Cooperates with other concrete industry associations and national organizations representing business and industry. Provides a range of services to its members as well as to those private and public segments of the economy that serve the needs of the construction community in the United States and Canada.

Standardization Activities Develops new standards and updates existing standards to reflect the latest findings in scientific research and test programs in the fields of cement and concrete technology, advanced engineering developments in all areas of concrete design and construction, and results of structural investigations and field experiences in the uses of concrete.

Does not write proprietary standards, but works with national standards writing organizations to develop building codes, design standards, and material and test standards. The Research and Technical Services group and the Market Development group of PCA participate in this activity. CTL staff also participate in such activities.

Keywords cement; concrete; test laboratories; fire protection; environment; energy;

POST-TENSIONING INSTITUTE

Gerard J. McGuire, Executive Director/RETD

1717 West Northern Avenue
 Suite 114
 Phoenix, Arizona 85021
 (602) 870-7540

FAX: (602) 870-7541

Founded: 1976

Standards Staff: 1

Type of Organization Trade Association
 Works through other organizations to develop standards.

Representation ACI, AASHTO, ANWA, ASCE

Scope Membership consists of post-tensioning material fabricators, manufacturers of prestressed steel, concrete construction organizations, professional engineers, and architects. Promotes the use of post-tensioning materials through research; development of recommendations, specifications and publications.

Standardization Activities Publishes "Guide Specifications for Post-Tensioning Materials" and "Recommendations for Grouping of Post-Tensioned Prestressed Concrete Members." Generally works through committees of the American Concrete Institute and American Association of State Highway Officials for standards development, American Water Works Association and American Society of Civil Engineers.

Availability Through PTI.

Formerly Post-Tensioning Division of the Prestressed Concrete Institute, 1975

Keywords construction; concrete; post-tensioning; prestressed concrete; unbonded post-tensioning; certification and training cable stayed bridges;

POWDER ACTUATED TOOL MANUFACTURERS' INSTITUTE

James A. Borchers, Executive Director

1000 Fairgrounds Road, Suite 200
 St. Charles, Missouri 63301
 (314) 947-6610 FAX: (314) 946-2157

Founded: 1952 Standards Staff: 1

Type of Organization Trade Association
 Works through other organizations to develop standards

Representation ANSI, ISO.

Certification Certification is through each individual manufacturer on their particular tool.

Scope Furthers the development of a powder actuated systems industry; encourages the safe use and effective application of powder actuated fastening systems; encourages research; cooperates with organizations engaged in similar work.

Standardization Activities Participates on ANSI A10.3 Committee for Safety Requirements for Powder Actuated Fastening Systems. Served on the ISO/TC 29 Subcommittee for standard power loads used in powder actuated fastening systems.

Keywords fastenings; tools; construction; safety;

PRECAST/PRESTRESSED CONCRETE INSTITUTE

Thomas B. Battles, President

175 West Jackson Boulevard
Chicago, Illinois 60604
(312) 786-0300

FAX: (312) 786-0353

Founded: 1954

Standards Staff: 4

**Type of
Organization**

Trade Association
Standards Developer

Certification

The Plant Certification Program certifies a plant's capability to produce architectural and structural precast and prestressed concrete of the highest quality. Recognized as a Quality Assurance Inspection Agency by the Council of American Building Officials (CABO).

Scope

A trade association representing the manufacturers of precast, prestressed concrete products used as structural and architectural elements in building, bridges, and other structures. The professional membership helps develop working documents, such as, handbooks, design guides and manuals, guide specifications, and state-of-the-art reports to assist other professionals to use the product in a correct and economical manner.

**Standardization
Activities**

Develops guide specifications, design guides, and other documents in which standards of the ASTM, ACI, ANSI, AASHTO, AREA, etc., are cited to aid the engineer or architect in designing and specifying industry products.

Availability

Distributed directly.

Formerly

Prestressed Concrete Institute

Keywords

concrete; prestressed concrete; construction; architectural precast concrete; glass fiber reinforced concrete; erection; buildings; bridges;

PRESSURE SENSITIVE TAPE COUNCIL

Glen R. Anderson, Executive Vice President

401 North Michigan Avenue
Suite 2200
Chicago, Illinois 60611
(312) 644-6610
Founded: 1953

FAX: (312) 527-6640
Standards Staff: 2

**Type of
Organisation**

Trade Association
Standards Developer

Scope

An organization of North American manufacturers of pressure sensitive tape (excluding surgical tape and label stock). Works with code and specification writing agencies.

**Standardisation
Activities**

Maintains research on test methods and standards of nomenclature, and on characteristics of products under all conditions of temperature and humidity. Publishes Test Methods booklet consisting of twenty-eight testing procedures for pressure sensitive tapes. Each test has been developed, revised, and edited by the Technical Committee of the Council in cooperation with interested government agencies over an extended period of time.

Also publishes an annual tape products directory designed to inform industrial, commercial and retail consumers of the variety of pressure sensitive tapes and the applications in which they have been successfully used. The tapes are listed by company, giving the tape identification number, description, principle uses, and manufacturer's values. The values given are in accordance with the PSTC Test Methods for tensile strength, adhesion, thickness and elongation.

Availability

Distributed directly.

Keywords

tape; packaging;

PREVENT BLINDNESS AMERICA

Richard T. Hellner, President

500 E. Remington Road
Schaumburg, Illinois 60173
(708) 843-2020

FAX: (708) 843-8458

Founded: 1908

Standards Staff: 2

Type of Organization Scientific Society
Standards Developer

Representation ANSI K61, Z80, Z87
ASTM F8.57

Scope The oldest voluntary health agency nationally engaged in the prevention of blindness through a comprehensive program of community service, public and professional education, and research.

Standardization Activities With advice and guidance of professional scientific advisory committees, develops standards for vision screening of preschool and school age children, for eye safety programs in schools and industry, for glaucoma screening, and for services providing low vision aids to the partially sighted.

Availability Sold directly and through ANSI.

Formerly Formed by Merger of New York State Committee for the Prevention of Blindness and the American Association for the Conservation of Vision (1918), National Committee for the Prevention of Blindness (1927), National Society to Prevent Blindness (1995)

Keywords blindness prevention; eye protection; public health; social welfare; vision screening;

PRIMARY GLASS MANUFACTURERS COUNCIL

James C. Benney, Technical Director

3310 SW Harrison Drive
Topeka, Kansas 66614-2279
(913) 266-3666 FAX: (913) 266-0272
e-mail: jimpgmc@aol.com

Founded: 1987 Standards Staff: 2

Type of Organization Trade Association
Works through other organizations to develop standards.

Standards Development Participates in various standardization committees including ASTM E-6; ASTM C-14; ISO/TC 160; ASHRAE SSPS 90.1 and SSPC 90.2, and NFRC.

Secretariat U.S. Technical Advisory Group to ISO/TC 160, Glass in Buildings.

Scope PGMC is an association made up of five United States firms, AFG Industries, Inc., Ford Motor Co/Glass Division, Guardian Industries, Libbey-Owens-Ford Company, and PPG Industries, Inc., engaged in the manufacture and sale of primary flat glass

products. PHMC is active in its role as a technical information resource for the flat glass industry. In addition, PGMC plays an influential role in the development of glass-related specifications and performance standards and in advancing the appropriate use of glass and glass products in the construction industry.

Keywords glazing; fenestration;

PRINTING INDUSTRIES OF AMERICA

Ray Roper, CAE; President and CEO

100 Daingerfield Road
Alexandria, Virginia 22314
(703) 519-8100

FAX: (703) 548-3227

Standards Staff: 3

Type of Organization Trade Association
Standards Developer

Scope PIA is the umbrella organization of the graphic arts industry. It is a federation of national, regional, state, and city associations. Sections include Binding Industries of America, Graphic Arts Marketing Information Service, Graphic Communications Association, International Thermographers Association, Label Printing Industries of America, Magazine Printers Section, Non-Heatset Web Section, and Web Offset Association.

Standardization Activities Maintains a continuing interest in the development of standards for promoting technical progress and production efficiencies. Activities include: development of industry specifications for production and inventory control applications; computer specifications for inter-industry communication and electronic data interchange; publication of Virgin Vinyl and Related Standards for Loose Leaf Binders through its affiliate, Binding Industries of America; preparation of standards for printing plate sizes through its National Association of Lithographic Platemakers Section; participation with Magazine Publishers Association and others in the development of standard specifications for advertising reproduction material for magazine web offset printing through its Graphic Communications Association and International Business Forms Industries affiliates.

Availability Distributed directly.

Formerly United Typothetae of America (1945)
Printing Industry of America, Inc. (1965)
Absorbed: Lithographers and Printers National Association (1964)

Keywords printing; lithography; communications; paper; information;
processing;

PROCESS INDUSTRY PRACTICES INITIATIVE

Construction Industry Institute
John T. Lowe, Director

3208 Red River
Suite 300
Austin, Texas 78705-2650
(512) 471-3437 FAX: (512) 473-2968
e-mail: jclowe@attmail.com

Founded: 1993 Standards Staff: 4

Type of Organisation Coalition of Process Industry owners and contractors
Developer of Recommended Practices

Standards Development More than 250 individuals from 27 member companies are participating in the development of recommended practices in the following areas:

Civil/Structural/Architectural, Electrical, Environmental, Insulation, Machinery, Process and Instrument Diagrams, Piping, Pressure Equipment, and Process Control. Specific practices include design, selection and specification, and installation information.

Certification None.

Scope PIP is a member funded sub-unit of the Construction Industry Institute. Its mission is to increase the value of the engineering-procurement-construction process for the United States process industry in the global marketplace, and enhance Responsible Care® compliance and safety. This is done by developing recommended practices for the detailed design, procurement, and construction of process facilities, including their maintenance and operation. Participation is voluntary and open to all companies qualified for Chemical Manufacturers Association membership and the contractor companies serving them.

Standardization Activities Develop voluntary "Recommended Practices" for the detailed design, procurement, and construction of process manufacturing facilities, primarily through harmonization of internal member standards. These "Practices" are generally "how to's" and are not focused on product specifications. Versions of

the U.S. voluntary recommended practices can be used as the basis for meeting international requirements. Currently there are 50 practices issued and another 100 in various stages of development

Availability Directly from Construction Industry Institute, 3208 Red River, Austin, Texas 78705-2650, (512) 471-8155.

Keywords process industry; construction industry; environment; machinery; piping; pressure equipment; process control;

PROJECT MANAGEMENT INSTITUTE

Deborah Bigelow, Executive Director

130 South State Road
Upper Darby, Pennsylvania 19082
(610) 734-3330 FAX: (610) 734-3266
WWW: <http://www.pmi.org>

Founded: 1969

Type of Organisation Professional Society
Works through other organizations to develop standards

Representation ANSI

Scope A nonprofit organization devoted exclusively to the field of project management. Foster recognition of the need for professionalism in project management; provides a forum for free exchange for project management problems, solutions, and applications; coordinates industrial and academic research efforts; develops common terminology and techniques to improve communications; provides interface between users and suppliers of hardware and software systems; and provides guidelines for instruction and career development in the field of project management.

Standardization Activities Functions are performed through the Professional Liaison Committee which coordinates with the Technology, Research Policy and Education Committees. Participates in national activities through the American National Standards Committee XK36.3 and internationally, through liaison with an appointed observer to Internet. Does not deal with the federal government directly. Several members are federal employees in agencies involved with project management.

Keywords management; business; information processing;

RACK MANUFACTURERS INSTITUTE

John B. Nofsinger, Managing Director

The Material Handling Institute
8720 Red Oak Boulevard, Suite 201
Charlotte, NC 28217
(704) 522-8644 FAX: (704) 522-7826

Founded: 1958 Standards Staff: 1

Type of Organization

Trade Association
Standards Developer

Standards Development

Standards developer since 1958.
33 member companies participating in standards activities.
4 active standards.
One being processed through ANSI.

Scope

Consists of firms engaged in the design and manufacture for sale of industrial steel storage racks. Active in standardization and fire protection of high rack storage areas.

Standardization Activities

Develops and publishes standards and nomenclature including Specification for the Design, Testing and Utilization of Industrial Steel Storage Racks; Minimum Design Standards for Pallet Stacking Frames; Manual of Safety Practices; and Stacker Rack Nomenclature.

Availability

Distributed directly and through the Material Handling Institute, Inc.

Keywords

storage racks; material handling; stacker racks; industrial equipment;

RADIO TECHNICAL COMMISSION FOR AERONAUTICS

David S. Watrous, President

1140 Connecticut Avenue, NW
Suite 1020
Washington, DC 20036
(202) 833-3993 FAX: (202) 833-9434

Founded: 1935

Standards Staff: 9

**Type of
Organization**

Standards Developer

**Standards
Development**

Over 185 member organizations; simultaneously operate 15-20 separate committees each working on one or more standards; a committee includes 20 to 250 volunteers.

83 active standards, three special Task Force Reports, two documents accepted as international standards (ISO/XXXX); airborne equipment environmental testing and aviation software certification.

**Standards
Designation**

Minimum Aviation System Performance Standards, Minimum Operational Performance Standards, and Guidance Documents (RTCA/DO-XXX).

**Government
Adoption**

RTCA is utilized as a Federal Advisory Committee. Recommendations provide the foundation for decisions regarding aviation policy, procedures and equipment. The Federal Aviation Administration uses RTCA recommended standards as the basis for Technical Standard Orders. RTCA products are also used by ICAO panels and industry.

Certification

None.

Scope

RTCA takes a "systems" approach in addressing air transportation issues. Focus is on Communications, Navigation, Surveillance/Air Traffic Management concepts, requirements, procedures and equipment (hardware and software). RTCA deliberations are open to anyone with an interest/input regarding the subject under discussion. These deliberations typically result in consensus-based, performance standards. RTCA members include both domestic and international government and private sector organizations, e.g., users (airlines, general aviation, Department of Defense), aviation associations, air traffic entities, airports, equipment suppliers and service suppliers.

**Standardization
Activities**

Seeks solutions to problems involving the application of electronics and telecommunications to aeronautical operations. These solutions are frequently in the nature of recommended technical standards and common operational requirements which are acceptable to government, industry, and users. Cooperates with European Organizations for Civil Aviation Equipment (EUROCAE).

Availability

Sold directly, and distributed through document marketing organizations.

Keywords

aeronautical; avionics; communications; electronics; navigation; surveillance; MASPS, MOPS; CNS/ATM; GNSS; data link; ADS-B;

RADIO TECHNICAL COMMISSION FOR MARITIME SERVICES

W.T. Adams, President

Post Office Box 19087
Washington, DC 20036
(202) 639-4006

Founded: 1947

Standards Staff: 6

**Type of
Organization**

Technical Society
Standards Developer

**Standards
Development**

Standards cover all aspects of maritime telecommunications.
None processed through ANSI. Draft standards not available for
review by non-RCTM members.

**Standards
Designation**

RTCM Recommendations, usually with designator Special
Committee (SC) Report Number.

**Government
Adoption**

RTCM Recommendations, where appropriate, are adopted by
cognizant government agencies such as FCC and U.S. Coast Guard.

Certification

No certification, qualification, or accreditation programs

Scope

180 member organizations active in all aspects of maritime
telecommunications including any transmission, emission, or
reception of signs, signals, writing, images, and sounds; or
intelligence of any nature by wire, radio, optical, and other
electromagnetic and visual systems.

**Standardization
Activities**

Standardization activities are primarily focused on
user-defined requirements for maritime telecommunications.
Special Committees formed to address standards areas are open to
participation by all RTCM member organizations. Liaison is
maintained with appropriate national and international
organizations working in similar areas.

Availability

Distributed directly.

Formerly

Radio Technical Commission for Marine Services

Keywords

maritime; shipping; boating; radio; electronics;
telecommunications; radiodetermination; radionavigation;
radiolocation; radar; transportation; communications; electronics;

RADIOLOGICAL SOCIETY OF NORTH AMERICA

Delmar J. Stauffer, Executive Director

2021 Spring Road
Suite 600
Oak Brook, Illinois 60521
(708) 571-2670 FAX: (708) 571-7837

Founded: 1915

Type of Organization Professional Society
Works through other organizations to develop standards

Representation A member of the Medical Devices Standards Board, ANSI, and the National Council of Radiation Protection and Measurements.

Scope A professional society which promotes the study and practical application of radiology, radium, electricity, and other branches of physics related to medical science.

Standardization Activities Supports activities of the organizations listed above and reports to its members annually on standards activities.

Keywords radiology; radiation; medical devices;

RAILWAY TIE ASSOCIATION

Raymond R. Wingard, Executive Director

Post Office Box Drawer 1039
Gulf Shores, Alabama 36547
(334) 968-5928 FAX: (334) 968-5929

Founded: 1919 Standards Staff: 1

Type of Organization Trade Association
Standards Developer

Standards Development 3 standards.

Standards Designation Specifications for Cross Ties and Switch Ties.
Wood Tie Fastener Performance Specification.
Selectie economic analysis model for alternative ties in track.

Scope Membership consists of those interested in the manufacture, procurement and chemical preservation of wood railroad cross ties. Cooperates with government agencies in conservation of forest products. Collects statistics, promotes standardization of cross ties, and provides models for economic analysis.

Standardisation Activities Administered by an Executive Committee, a Committee on Research and Development, and other active committees. Active in international activities through its Canadian membership. Cooperates with Government agencies on cross tie specifications. Works with the Association of American Railroads Research Center and several railroads in Research and Development and in-track testing of ties, including tests at Pueblo, Colorado Test Track Center.

Availability Distributed directly.

Formerly National Association of Railroad Tie Producers

Keywords railway ties; cross ties; transportation;

RECORDING INDUSTRY ASSOCIATION OF AMERICA

Hilary B. Rogen, President

1020 19th Street, NW, Suite 200
 Washington, DC 20036
 (202) 775-0101

FAX: (202) 775-7253

Founded: 1952

Standards Staff: 2

Type of Organisation

Trade Association
 Standards Developer

Standards Development

4 active standards.

Certification

No certification, qualification, or accreditation programs

Scope

A nonprofit trade association for the United States sound recording industry. Promotes mutual interests of recording companies and the betterment of the industry. Initiates and sponsors programs and activities geared to the needs and problems of the recording industry.

Standardisation Activities

The Engineering Committee provides an ongoing review to maintain high technical standards for phonograph records, prerecorded sound recording media to insure uniformity and compatibility. Cooperates with ANSI, IEC, and EIA, and has drafted its own dimensional standards to facilitate equipment design and assure interchangeability.

Availability Distributed directly.

Formerly Record Industry Association of America (1952)

Keywords phonograph records; cassettes; videodiscs; videocassettes; recording; communications;

RECREATION VEHICLE INDUSTRY ASSOCIATION

Bruce A. Hopkins, Vice President, Standards

1896 Preston White Drive
 Reston, Virginia 22090
 (703) 620-6003 FAX: (703) 620-5071

Founded: 1963 Standards Staff: 13

Type of Organization

Trade Association
 Standards Developer

Standards Development

4 active standards.

Secretariats

ANSI Committee A119, Recreation Vehicles and Recreation Vehicle Parks; ANSI RGS-1, Standard for Engine Generator Sets for Recreation Vehicles; Standard for Park Trailers; ANSI 12V Low Voltage Systems in Conversion Vehicles.

Scope

Manufacturers and suppliers of recreational vehicles. Provides the industry a base from which to communicate with legislators, government agencies, automotive manufacturers, the media, and the general public.

Standardization Activities

Coordinates the activities of committees that establish minimum requirements for installation of plumbing, electrical, heating, and other safety related systems in recreation vehicles, park trailers, and for design and construction features for recreation vehicle parks and campgrounds. Monitors state RV agencies; does compliance inspections on member manufacturers; provides educational programs on compliance standards. Monitors proposed standards and keeps industry informed of changes. Requires that manufacturers comply with existing standards as a condition for membership. Representation on standards committees of ANSI and NFPA.

Availability

Distributed directly.

Formerly American Institute of Travel Trailer and Camper Manufacturers (1968);
Recreation Vehicle Institute (1974)

Keywords recreation; transportation; recreational vehicles; conversion vehicles; RV parks;

REDWOOD INSPECTION SERVICE
A division of California Redwood Association

Christopher Grover, General Manager

405 Enfrente Drive
Suite 200
Novato, California 94949
(415) 382-0662 FAX: (415) 382-8531

Founded: 1961 Standards Staff: 4

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Developed standard for California Redwood Lumber through authorization of the American Lumber Standard Committee and PS-20.

**Standards
Designation**

Standard Specifications for Grades of California Redwood Lumber.

Certification

Adopts official grademarks signifying that products so marked have been graded in accordance with standard specifications of the Redwood Inspection Service. Grademarks are applied by qualified graders of member companies or by cooperating grading agencies operating within requirements established by the American Lumber Standards Committee.

Scope

A nonprofit organization for the primary purpose of establishing uniform grades of redwood lumber, consultation with government agencies concerning grades and grading of redwood and other species of lumber. Promulgates rules for the redwood lumber industry. Membership includes 85 percent of the redwood producers. Rules are developed by a Quality Standards Committee and approved by Board of Directors.

**Standardization
Activities**

Adopts standard specifications for grades, sizes, patterns, and grademarks for redwood lumber; planning mill products; special purpose uses for redwood lumber including tank stock, stadium seat stock, foundation sills, structural grades, structural glue laminating grades, and miscellaneous products including railroad ties and cooling tower material. Cooperates with other lumber organizations and with the American Lumber

Standard Committee in keeping current the American Lumber Standard set forth in the U.S. Department of Commerce Product Standard 20. Grading rules for redwood lumber are in accordance with these standards and approved by ALSC.

Availability Sold directly.

Keywords wood products; grading rules; inspection; lumber; building;

REFRACTORIES INSTITUTE

Robert W. Crolius, President

500 Wood Street, Suite 326
Pittsburgh, Pennsylvania 15222
(412) 281-6787 FAX: (412) 281-6881

Founded: 1951 Standards Staff: 2

Type of Organization Trade Association
Works through other organizations to develop standards.

Representation Active in ASTM Committee C-8 on Refractories and ISO Committee TC-33 on Refractories.

Scope A national trade association representing a large segment of the refractories industry which is comprised of over 130 companies, operating more than 250 establishments and employing more than 15 000 hourly workers throughout 37 states. Primary purposes are to promote demand for the industry's products, to conduct and stimulate research aimed at improving products and processes, to aid in the development of new product applications, to keep its members abreast of new developments and to work cooperatively with government agencies involved with the industry.

Standardization Activities Cooperates with national technical associations test methods for refractories. Informs member companies of United States and international standardization activities regarding refractories.

Keywords refractories; fireclay; firebrick; insulating refractories; dolomite; materials;

RESILIENT FLOOR COVERING INSTITUTE

Walter D. Anderson, Managing Director

966 Hungerford Drive, Suite 128
Rockville, Maryland 20850
(301) 340-8580 FAX: (301) 340-7283

Founded: 1929 Standards Staff: 2

Type of
Organization

Trade Association
Standards Developer

Standards
Development

Standards developer since 1929.

Standards
Designation

RFCI prefix.

Scope

Represents resilient floor covering producers of tile and sheet vinyl flooring products in the United States.

Standardization
Activities

Developed standards for tile and sheet vinyl products, including adhesives and installation and maintenance instructions. Works with the federal government in developing standards for resilient tile and sheet vinyl for use by the government.

Availability

Distributed directly.

Keywords

floor covering; vinyl tile; sheet vinyl; building;

RESISTANCE WELDER MANUFACTURERS ASSOCIATION

Shannon K. Coghlan, Executive Director

1900 Arch Street
Philadelphia, Pennsylvania 19103
(215) 564-3484 FAX: (215) 564-2175

Founded: 1931

Type of
Organization

Trade Association
Standards Developer

Scope

A trade association representing North American companies engaged in manufacturing resistance welding machines, electrodes and components (controls, transformers, etc.) Engages in a varied program of activities embracing the development of standard specifications for numerous types of resistance welding equipment, research and development work and cooperation with other

associations and industries with mutual or parallel interests and problems.

**Standardization
Activities**

Developed specifications for resistance welding machines: spot, press, portable, seam, upset butt, flashbutt, etc.; electrode alloy materials; nomenclature, definitions, etc. Developed standard classification for resistance welding electrode alloys, stating minimum permissible physical and electrical qualities. Identified and classified trade names and numbers. Also developed standards for spot welding electrode holders welding electrodes (spot and seam), together with recommended electrode alloys for spot welding of similar and dissimilar metal combinations. Developed standard nomenclature and definitions on resistance welding equipment and techniques. Cooperates with the National Electric Manufacturers' Association and the American Welding Society to develop standards.

Availability

Distributed directly.

Keywords

resistance welding; manufacturing; spot welding; welding electrodes;

ROBOTIC INDUSTRIES ASSOCIATION

James A. Peyton, Manager of Standards Development

900 Victors Way
Post Office Box 3724
Ann Arbor, Michigan 48106
(313) 994-6088 FAX: (313) 994-3338

Founded: 1974

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1982.
Over 250 representatives participate in the seven R15 Standards Subcommittees. Most of RIA standards are processed through ANSI Subcommittees. Draft standards available for review.

**Standards
Designation**

RIA/R15.x.

**Government
Adoption**

The Occupational Safety and Health Administration references ANSI/RIA R15.06-1986 in its Guidelines for Robotic Safety.
OSHA Training Manual, Chapter 18 - Robotic Safety, 1994.

Secretariats

Domestic: R15.01, R15.02, R15.03, R15.04, R15.05, R15.05WG1, R15.06, and R15.07.
International: U.S. TAG/ISO/TC 184/SC 2.

Scope The Robotic Industries Association provides leadership for the responsible advancement of the entire robotics industry in North America. Some of the Association's objectives include providing mutual communications and organization of groups within the robotic industry to initiate and pursue programs of common technical, marketing, or management interest; and developing robotic industry and robotic system standards which will enhance the use and application of automation equipment.

Standardization Activities Standardization in the field of robotics, including activities within the following technical committees: Electrical Interface (R15.01), Human Interface (R15.02), Mechanical Interface (R15.03), Communication/Information (R15.04), Performance (R15.05), Reliability (R15.05-WG1), Safety (R15.06), and Simulation/Offline Programming (R15.07).

Availability Draft standards available from RIA. ANSI-approved standards available from RIA and ANSI.

Keywords robotics; robot systems; flexible manufacturing system; automation;

RUBBER MANUFACTURERS ASSOCIATION

Kevin Ott, Vice President, General Products Group

1400 K Street, NW
 Washington, DC 20005
 (202) 682-4800

FAX: (202) 682-4854

Founded: 1915

Standards Staff: 1

Type of Organization

Trade Association
 Standards Developer

Standards Development

100 member companies participate in standards development. Some standards are submitted to ANSI canvassing procedures. Draft standards are available for review by interested organizations.

Standards Designation

RMA; Joint RMA/MPTA/RAC (Mechanical Power Transmission Association/Rubber Association of Canada); Joint RMA/TFI (The Fertilizer Institute); Joint RMA/CGA (Compressed Gas Association).

Government Adoption

Some RMA documents are cited by some federal regulatory agencies, e.g., OSHA.

Certification

No certification, qualification or accreditation programs.

Secretariats ISO/TC 41/SC 4 - Synchronous Belt Drives.

Scope A national trade association of the rubber industry, representing over 100 member companies which manufacture finished rubber products. Operates on state, national and international levels and represents its members before legislative and regulatory bodies, as well as in other standards writing forums.

Standardization Activities Committees review and make recommendations on governmental standardization proposals and participate in the standards programs of ANSI, SAE, ASTM, DOT, OSHA, DOD, DOC and others. Develops standards and specifications for hose, conveyor belting, power transmission belting, sealing products, molded and extruded products, protective linings, roll coverings, and coated materials.

Availability Distributed directly, through member companies, and through ANSI.

Formerly New England Rubber Club (1909)
Rubber Club of America (1917)
Rubber Association of America (1929)

Keywords rubber; elastomeric; hose; conveyors; transmission belts; industrial equipment; seals; coated materials; materials;

SALT INSTITUTE

Bruce M. Bertram, Technical Director

700 North Fairfax Street, Suite 600
Alexandria, Virginia 22314
(703) 549-4648 FAX: (703) 548-2194

Founded: 1914 Standards Staff: 1

Type of Organization Trade Association
Works through other organizations to develop standards

Scope A nonprofit association supported by the world's major salt producers. Its 8 U.S. members produce 95 percent of the dry salt produced in the United States. Activities include information services, government relations, member services, and field services.

Standardization Activities Serves as the national and the international standards representative for the salt industry. Cooperates with the National Academy of Sciences and the Department of Labor, General Services Administration, and the U.S. Army Natick Laboratories. Also works with the American National Standards Institute, the American Society for Testing and Materials, the American Water Works Association, the U.S. Pharmacopeia, the American Association

of State Highway and Transportation Officials, and the American Feed Manufacturers Association.

Formerly The Salt Producers Association (1963)

Keywords salt; sodium chloride; materials;

SCAFFOLDING, SHORING AND FORMING INSTITUTE

John H. Addington, Managing Director

1300 Sumner
Cleveland, Ohio 44115
(216) 241-7333 FAX: (216) 241-0105

Founded: 1960 Standards Staff: 1

Type of Organization Manufacturing Trade Association
Professional Society Standards Developer

Standards Development 13 standards prepared.
None processed through ANSI.

Scope 14 manufacturers of scaffolding, suspended powered scaffolding, shoring and forming. Establishes recommended criteria and inspection procedures for the proper and safe use of scaffolding to support formwork in concrete construction.

Standardization Activities Provides recommended safety requirements for shoring concrete formwork and scaffolding including flying deck forms, rolling shore brackets, horizontal shoring beams, single post shores, steel frame shoring. Also provides recommended scaffolding erection procedure.

Availability Sold directly.

Formerly Steel Scaffolding and Shoring Institute

Keywords scaffolding; shoring; suspended powered scaffolding; forming; construction; safety;

SCALE MANUFACTURERS ASSOCIATION

Robert A. Renfried, Executive Director

9384-D Forestwood Lane
Manassas, Virginia 22110
(703) 330-7079 FAX: (703) 330-7984

Founded: 1945 Standards Staff: 2

Type of Organisation	Trade Association Standards Developer
Standards Development	Standards developer since 1945. 34 members in association. 3 active standards.
Standards Designation	SM prefix.
Certification	No certification, qualification or accreditation programs.
Scope	A national trade association that represents United States manufacturers of scales, balances and major weighing elements.
Standardization Activities	Directed toward fulfilling user-defined requirements of the industry and its customers through participation in both national and international standardization efforts.
Availability	Distributed directly.
Keywords	scale; weighing machines; instruments;

SCREEN MANUFACTURERS ASSOCIATION

Frank S. Fitzgerald, CAE, Executive Vice President

2545 South Ocean Boulevard

Suite 410

Palm Beach, Florida 33480-5453

(407) 533-0991

FAX: (407) 533-7466

Founded: 1955 Standards Staff: 1
Type of Organization Trade Association
 Standards Developer
Standards Development Nine active standards.
Standards Designation SMT, SMA, and ANSI prefixes.
Scope Manufacturers of metal window, patio, door, and porch insect screens; sponsors research programs; compiles statistics. Sponsors certification programs.
Standardization Activities Develops and maintains testing procedures and specifications for metal and solar screens.
Availability Sold directly.
Keywords screens; building; insect; solar;

SEALED INSULATING GLASS MANUFACTURERS ASSOCIATION

J. Dollard Carey, Executive Vice President

401 N. Michigan Avenue
 Suite 2400
 Chicago, Illinois 60611
 (312) 644-6610 FAX: (312) 321-6869

Founded: 1963

Type of Organization Trade Association
 Works through other organizations to develop standards
Representation Works with ASTM
Scope Manufacturers of insulating glass and suppliers to the industry. Provides government liaison, publishes information on test methods.
Keywords insulating; glass; building;

SECONDARY MATERIALS AND RECYCLED TEXTILES

Bernard Brill, Executive Vice President

7910 Woodmont Avenue
Suite 1212
Bethesda, Maryland 20814
(301) 656-1077 FAX: (301) 656-1079

Founded: 1932 Standards Staff: 1

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Two active standards.

**Government
Adoption**

General Services Administration has adopted Wiping,
Cotton, and Cotton-Synthetic dated October, 1981.

Scope

Smart (Secondary Materials and Recycled Textiles) is an international association which seeks to strengthen the economic opportunities of its members. It promotes the interdependence of all its industry segments by providing a common forum for networking, education, and trade. Smart focuses on common problems and opportunities in the management, promotion, research and development of the wiping materials, used clothing, and textile recycle industry.

**Standardization
Activities**

Publishes descriptions of wiping cloths for use by all phases of industry. Descriptions cover material, content, and grade of wiping cloths.

Availability

Distributed directly.

Formerly

International Association of Wiping Cloth Manufacturers
Sanitary Institute of America

Keywords

rags; textiles; used clothing; wipes;

SECURITY INDUSTRY ASSOCIATION

Virginia Williams, Director of Technical and Education Services

635 Slaters Lane
Suite 110
Alexandria, Virginia 22314
(703) 683-2075 FAX: (703) 683-2469

Founded: 1969 Standards Staff: 2

Type of Organization	Trade Association Standards Developer
Standards Development	Develop Standards and Technical Reports, host standards development activities for other related organizations, provide technical input to other standards writing bodies as required. Standards development began approximately 1987; ANSI accreditation under the Canvass method obtained in 1991. Approximately 1000 participants or interested parties 10 active standards 13 standards subcommittees All subcommittee activities, information distribution, and draft standards for review are open to all interested parties on request and at no charge. Equivalent metric units are included in all standards where applicable.
Standards Designation	SIA xx-xxx-YR or ANSI/SIA xx-xxx-YR released as an SIA document: SIA ss-##x-yy where: ss is the subcommittee. ## is the sequential number of standards from that subcommittee. X is the type of standard (design, application, vocabulary, etc.). yy is the year the standard was last updated.
Certification	No certification, qualification, or accreditation programs. Validation checklists are provided to assist implementors in self-certification.
Scope	SIA works to increase the growth and professionalism of the security industry. Membership is of suppliers of security products and services; currently 60 percent manufacturers, 35 percent service providers, and 5 percent distributors. Activities include standards, education, government affairs, public relations, commissioned research, trade shows, and information recourses.
Standardization Activities	SIA standards and technical reports apply to products and systems in the electronic security industry, i.e., where the purpose is to prevent or deter loss of property or life through electronic means. Standards are primarily for product design and performance, through some cover application of products. Technical Reports are advisory documents regarding technical limitations, common practices, or overviews of security technology.

Subcommittees are formed around product types. Draft standards are circulated for comment and revised through group discussion of the comments received. Final document approval is obtained by subcommittee vote, then ratification by the SIA Standards Committee (review of due process). SIA standards are then canvassed in accordance with procedures registered with ANSI. Eligibility to vote on a subcommittee is based on active participation. Participation in subcommittee activity is open to the public at no charge and without restriction.

Availability Distributed directly.

Formerly Security Equipment Industry Association (SEIA)

Keywords security; safety; protection; alarms; communicators; detectors; monitoring; false alarms; low voltage;

SEMICONDUCTOR EQUIPMENT AND MATERIALS INTERNATIONAL

William A. Brown, Manager, International Standards

805 East Middlefield Road
Mountain View, California 94043-2295
(415) 964-5111 FAX: (415) 967-5375
e-mail: semihg@semi.org

Founded: 1970 Standards Staff: 13

Type of Organization Trade Association
Standards Developer

Standards Development Standards developer since 1974.
450 active standards.
Draft Standards available for review.
None processed through ANSI.
Programs supported in North America, Europe and Japan;
under development in P.R. China, Korea and Russia.

Standards Designation C Chemicals and Gases.
E Equipment Automation/Hardware,
Equipment Automation/Software.
G Packaging.
M Materials.
P Micropatterning.
S Safety Guidelines.
T Traceability.
D Flat Panel Display.

Scope

With 1450 corporate members, SEMI serves the international semiconductor community by fostering the advancement of knowledge about equipment, materials, and services distinct to the production and use of semiconductor devices. Founded in 1970 to develop the SEMICON trade shows, SEMI activities have expanded to include technical symposiums, market research seminars, trade issues, and standards development.

**Standardization
Activities**

The SEMI Standards Program encompasses virtually every facet of semiconductor manufacturing and has established specifications and test methods in ten critical areas: chemicals, equipment (including automation and communications), materials, packaging, micropatterning facilities, safety, traceability and flat panel displays. Emphasis in standards development is placed upon: communication between suppliers and customers; interchangeability of products and components; technology transfer; safety; and efficiencies in design, production, and inventory.

Nearly 3000 engineers, scientists, and technicians volunteer to serve on standards setting technical committees in Japan, Europe, and the United States. Many committees have established a liaison with one or more of the following standards organizations: ASTM, ANSI, CGA, JEIDA, SEAJ, DIN, JEDEC, ISEE, and NIST. Membership in the SEMI international standards programs is open to all interested individuals.

A balloting procedure designed to allow maximum fair participation precedes the approval of any specification. Procedural reviews of all standards ensure that the formal balloting process has been properly performed.

The SEMI Standards, an 11-volume publication, is revised annually for publication in April.

Availability

Distributed directly and through IHS and on the WWW at <http://www.semi.org>.

Keywords

semiconductors; high technology; manufacturing; chemicals; equipment; materials; packages; photomasks; automation; communications; integrated circuits; gases; micropatterning; flat panel displays; safety;

SPI FOUNDATION

Arnold S. Kuhns, President

15708 Pomerado Road
Suite N208
Poway, California 92064
(619) 451-8868

FAX: (619) 451-9268

Founded: 1978

Standards Staff: 7

**Type of
Organization**

Standards Developer

Certification

Manufacturer self-certification program for various products used in automotive aftermarket.

Scope

An international standards setting organization involved with companies worldwide in the areas of motorsports, road wheels and consumer products.

**Standardization
Activities**

Activities are directed towards fulfilling user defined requirements of the motorsports, road wheels and consumer products industries. Standards are minimum performance in nature and compliance with the specifications enables the user to self-certify product.

Formerly

SEMA Foundation, Inc.

Keywords

motorsports; road wheels; consumer products;

SGS UNITED STATES TESTING COMPANY

Richard Franconeri, Quality Assurance Director

291 Fairfield Avenue
Fairfield, New Jersey 07004
(201) 575-5252

FAX: (201) 575-8271

Founded: 1880

**Type of
Organization**

Independent Test Laboratory
Standards Developer

Certification

Conducts testing for certification and labeling to assure products meet specified standards.

Scope

An independent commercial laboratory engaged in product testing for quality assurance.

Standardization Activities Develops standard test procedures including: instrumentation for consumer appliances, toys, home entertainment equipment, garden and lawn equipment, recreational goods, textiles, chemicals, cosmetics, drugs, paint, construction materials, plastics, paper, metals, and foods. Cooperates with ASTM and ANSI. Assists government agencies, manufacturers, and trade associations by product testing to ascertain whether specifications and standards are met and to establish national standards.

Formerly Also known as Nationwide Consumer Testing Institute, Inc.

Keywords quality assurance; testing; consumer products; materials; food; textiles;

SHEET METAL, AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION

John H. Stratton, Director of Technical Services

4201 Lafayette Center Drive
 Chantilly, Virginia 22021-1209
 (703) 803-2980 FAX: (703) 803-3732

Founded: 1944 Standards Staff: 3

Type of Organization

Trade Association
 Standards Developer

Standards Development

16 active standards.
 None processed through ANSI.

Standards Designation

NFPA standard xx.

Government Adoption

Eight standards are referenced by federal agencies: DOE; GSA; NAVFAC; Army Corps of Engineers; State Department; U.S. Air Force. State and local government use is indirect through adoption of ICBO, BOCA and SBCCI Model Codes which predominantly adopt and use the HVAC Duct Construction Standards and Fibrous Glass Duct Construction Standards. Any authority adopting NFPA Standard 90A will incorporate these two standards. Any authority adopting NFPA Standard 91, the ACGIH Industrial Ventilation Manual (OSHA invokes the Industrial Ventilation Manual) picks up the Round and Rectangular Industrial DCS of SMACNA.

Scope

A nonprofit trade association dedicated to the advancement of the sheet metal, heating, ventilating, air-conditioning, industrial sheet metal, and roofing industries. Activities and services are carried out in four departments: technical, labor relation, legislative affairs, and business management.

**Standardization
Activities**

The Technical Services Department administers standards activities. Although some standards are developed for labor relations and safety practices, the majority fall into two categories: duct construction and architectural sheet metal.

Publishes Accepted Industry Practice for Industrial Duct Construction, Architectural Sheet Metal Manual, Building Systems Analysis and Retrofit Manual, Ducted Electric Heat Guide for Air Handling Systems, Energy Conservation Guidelines, Energy Recovery Equipment and Systems Air-to-Air, Fibrous Glass Duct Construction Standards, Fire, Smoke and Radiation Damper Guide for HVAC Systems, Guide for Steel Stack Design and Construction, HVAC Air Duct Leakage Test Manual, HVAC Duct Construction Standards-Metal and Flexible, HVAC Systems-Duct Design, HVAC Systems-Applications, HVAC Systems Commissioning Manual, HVAC Systems-Testing, Adjusting and Balancing, Indoor Air Quality Manual, IAQ Guidelines for Occupied Buildings under construction. Installation Standards for Residential Heating and Air Conditioning Systems, Labor Units Manual, Management Change Order Manual, Managers Guide for Welding, Rectangular Industrial Duct Construction Standards, Retrofit of Building Energy Systems and Processes, Round Industrial Duct Construction Standards, Seismic Restraint Guidelines for Mechanical Systems Manual, Thermoplastic Duct (PVC) Construction Manual, Welding Guidelines/Troubleshooting Chart, Standards Practice in Sheet Metal Work.

Availability

Distributed directly.

Formerly

Sheet Metal Contractors National Association (1956)

Keywords

air-conditioning; air handling; indoor air quality;

SILVER INSTITUTE

John H. Lutley, Executive Director

1112 16th Street, NW
Suite 240
Washington, DC 20036
(202) 835-0185

FAX: (202) 835-0155

Founded: 1971

Standards Staff: 1

Type of Organization	Trade Association Standards Developer
Standards Designation	Unified Number Designations.
Government Adoption	Government use, not adoption.
Certification	No certification programs, supplier self certification.
Scope	An international trade association of miners, refiners, fabricators, and bullion dealers. Extends the market for the use of silver through publications, seminars, joint symposiums with technical organizations, and trade shows.
Standardization Activities	Develops standard alloy designations for silver alloys for Unified Numbering System for Metals and Alloys issued by the Society of Automotive Engineers (SAE) and the American Society for Testing and Materials.
Availability	Distributed directly and through ASTM and SAE.
Keywords	silver; precious metals; bullion; alloys; materials;

SINGLE PLY ROOFING INSTITUTE

Dave Roodvoets, Technical Director
 175 Highland Avenue
 Needham, Massachusetts 02194
 (617) 444-0242 FAX: (617) 444-6111
 Founded: 1982 Standards Staff: 2

Type of Organization	Trade Association Standards Developer
Standards Development	SPRI began independent standards development in 1995. In 1988 developed a standard in conjunction with the Rubber Manufacturers Association. 100 individuals participate in developing standards. 1 active standard processed through ANSI. Draft standards are available from the organization.
Standards Designation	ANSI/SPRI.
Scope	SPRI is a nonprofit trade association representing sheet membrane and component suppliers to the commercial roofing industry. Its function is to develop methods for improving the conditions and

advancing the best interests of the flexible sheet membrane manufacturing industry. There are 50 member companies.

Standardization Activities SPRI committees collect data, evaluate proposed procedures and publish documents to meet the technical needs of the commercial roofing industry.

Availability Directly from SPRI.

SKI INDUSTRIES AMERICA

Chris Stoddard, Committee Administrator

20 Maple Street
Post Office Box 2883
Springfield, Massachusetts 01101
(413) 781-4732 FAX: (413) 781-6105

Founded: 1989 Standards Staff: 2

Type of Organization Trade Association
Standards Developer

Standards Development Standards developer since 1963.

Government Adoption U.S. Department of Agriculture Forest Service, and states where skiing exists.

Secretariat ANSI B77.1

Scope A trade association of ski area operators, manufacturers, and suppliers of ski equipment. Twelve hundred members located in all states and several foreign countries. Aims are: to promote skiing and safety in skiing, to protect natural resources in meeting the needs of the skiing public and ski area operators, and to ensure legitimate interests of ski area operators.

Standardisation Activities Maintains committee composed of operators, users, authorities having jurisdiction, designers, and manufacturers of aerial tramways. Developed American National Standard B77.1, Safety Requirements for Passenger Tramways and Lifts, Surface Lifts, and Tows. Promotes this safety standard for the ski lift industry, used by ski lift manufacturers, ski area personnel, ski area insurance programs, and state and federal authorities having jurisdiction.

Availability Distributed directly and through ANSI.

Keywords aerial tramways; cable cars; cableways; ski lifts; sports; skiing; recreation;

SLEEP PRODUCTS SAFETY COUNCIL

Patricia A. Martin, Executive Director

333 Commerce Street
Alexandria, Virginia 22314
(703) 683-8371 FAX: (703) 683-4503

Founded: 1986 Standards Staff: 1

Type of Organization Trade Association
Works through other organizations to develop standards

Representation Consumer Product Safety Commission (CPSC)
American Society for Testing and Materials (ASTM)
National Fire Protection Association (NFPA)

Standards Development Instrumental in maintaining Federal Standard for the Flammability of Mattresses and Mattress Pads, and two voluntary standards for bedding products used in institutional occupancies: ASTM E-1590-94a and NFPA 267.
Approximately 20 volunteer members and non-members participate in these activities.

Government Adoption State governments may reference any of the above three standards for use in institutional occupancies (i.e., hotels/motels, hospitals, etc.).

Keywords bedding; mattresses; flammability; safety;

SMALL MOTOR MANUFACTURERS ASSOCIATION

Elizabeth Bevington-Chambers, Executive Director

Post Office Box 378
Sherborn, Massachusetts 01770
(508) 655-4409 FAX: (508) 651-3920

Founded: 1975 Standards Staff: 4

Type of Organization Trade Association
Standards Developer

Standards Development Standards developer since 1975.
185 member companies participate in standards activities.
12 active standards plus 2 under development.

Certification: No certification, qualification, or accreditation programs.

Scope An international industry organization representing original equipment manufacturers, users, suppliers, and other interested parties involved in the manufacture of fractional and subfractional horsepower electric motors and their controls.

Standardization Activities The Technical Committee works with Underwriters Laboratories, Canadian Standards Association, government agencies and other associations in developing standards. Topical areas include: tachometers; general motor terminology; permanent magnet motors; permanent split capacitor motors; universal motors; shaded pole motors; and technical reference information for brushes, contacts, magnets, and other materials of motor construction. Promotes manufacturer/user interface.

Availability Distributed directly.

Keywords electrical equipment; tachometers; industrial equipment; motors; magnets;

SNELL MEMORIAL FOUNDATION

Hal A. Fenner, Jr., M.D., President

Post Office Box 493
 St. James, New York 11780
 (516) 862-6440 FAX: (516) 862-6545

Founded: 1957 Standards Staff: 7

Type of Organization Nonprofit research corporation
 Standards developer

Certification Approves manufacturers products meeting its standards and other criteria for certification under contractual agreements, providing, among other matter, ongoing random sample testing of helmets taken from dealer shelves. Through its certification program, the Foundation is able to keep in the forefront of improvements in the state of the manufacturing art, both as to methodology and materials, and to obtain data useful in its research program and its development of more sophisticated test procedures.

Secretariats ANSI Z90, Vehicular Head Protection

Scope A nonprofit corporation whose primary purpose is to conduct research in brain trauma and head protective devices and to develop and utilize advanced techniques for related critical measurements. Establishes upper level standards for protective devices, maintains an ongoing research program in head injury and a program in education related to vehicular safety. Linked with European counterpart, Snell Memorial Foundation (UK).

Standardization Activities Promulgated in 1959 the first standard for road user crash helmets in the United States. Its helmet standards are generally recognized as carrying the most stringent safety performance requirements for road user protective headgear in the world today. Has also established standards of safety performance criteria for skiers, bicyclists, and equestrian protective helmets. Standards are not minimum standards; but, rather, represent the upper levels of protective criteria which manufacturing is capable of meeting, and as that capability increases, the level of the standard is raised.

Availability Distributed directly.

Keywords helmets; head protection; vehicular safety; brain trauma; bicyclists; motorcyclists; equestrians; safety; social welfare; sports;

SNOWMOBILE SAFETY AND CERTIFICATION COMMITTEE

Edward J. Klim, Chairman
 271 Woodland Pass
 Suite 220
 East Lansing, Michigan 48823
 (517) 332-0886 FAX: (517) 332-1760

Founded: 1974 Standards Staff: 1

Type of Organization Trade Association
 Standards Developer

Standards Development Standards developer since 1974.
 4 manufacturers participate in standards activities.
 29 active standards.
 Standards processed by SAE.
 Draft standards available for review.

Standards Designation SSCC/10, Safety Standards for Snowmobile Product Certification.

Government Adoption All or portions of the standard accepted by Connecticut, Maine, Maryland, Massachusetts, Michigan, Minnesota, Montana, New Hampshire, Oregon, Pennsylvania, Rhode Island, Vermont, Wisconsin and Canada.

Certification Certification program administered since 1975. Each conforming machine bears a Certification Label which signifies that the United States Testing Company, has independently confirmed that the vehicle has been manufactured in compliance with SSCC safety standards. In the area of operator education, provincial and state safety training programs are certified by the SSCC as being in compliance with uniform standards. To date, the instructional programs of 16 states and provinces have been certified.

Scope A nonprofit membership association organized to promote, foster, and encourage by any and all lawful means, safe, enjoyable opportunities for snowmobiling through operator safety training and education programs; safe trail, use area and facility development; development of voluntary snowmobile machine safety standards and the independent certification thereof.

Standardization Activities Has established a comprehensive machine standards program for snowmobile manufacture. Since February 1, 1975, all snowmobiles produced by participating manufacturers conform to the minimum safety standards for snowmobile product manufacture in effect on the date of their manufacture. Incorporated in the standards are requirements for seats, controls, brake and fuel systems, shields and guards, electrical and lighting systems, reflectors, hand grips, general hazard requirements and emergency starting.

Availability Sold directly.

Keywords snowmobile; safety; acoustics; recreation;

SOCIETY FOR EXPERIMENTAL MECHANICS

Kenneth A. Galione, Managing Director

7 School Street
 Bethel, Connecticut 06801
 (203) 790-6373 FAX: (203) 750-6373
 e-mail: sem@transit.nyser.net

Founded: 1943 Standards Staff: 1

Type of Organisation Scientific Society
 Standards Developer

Standards Development Standards developer since 1980.
Forty firms participate in standards activity.
One active standard pending through ANSI.

Standards Designation Strain Gage Bridge Designation and Color Code of
Terminal Connections for Portable Strain Indicators.

Certification Strain Gage Technician certification program expected by June
1996. SEM is affiliated with the British Society for Strain
Measurements which does certify and accredit.

Scope Specialists in experimental mechanics in this country and overseas
active in academic, government, and industrial research and
development and include engineers, manufacturers, consultants,
user and vendors of plant equipment, services, and systems.
Maintains close contact with professional groups in Europe, Japan,
Korea and in the United States through joint meetings and combined
memberships.

Standardization Activities Represents a broad range of activities in experimental
mechanics. Various Technical Division Committees serve
professional interests in areas such as composite materials,
fracture, modal analysis, structural testing, residual stresses,
optical methods, strain gages, and transducers.

Availability Distributed directly.

Formerly Society for Experimental Stress Analysis

Keywords structural stress; material stress; experimental mechanics;
testing; design life, validation techniques;

SOCIETY FOR INFORMATION DISPLAY

Dr. Andras I. Lakatos, President

1526 Brookhollow Drive
Suite 82
Santa Ana, California 92705-5421
(714) 545-1526 FAX: (714) 545-1547
e-mail: socforinfodisplay@mcimail.com
WWW: <http://www.display.org/sid>

Founded: 1962

Standards Staff: 3

Type of Organization Professional Society
Standards Developer

Standards Development Joint standards with Electronic Industries Associations through joint committees with SID writing standards and EIA administrating standards written by SID. SID Definitions and Standards Committee maintains liaison with other standards formulating groups within the industry.

Standards Designation SID/EIA prefixes.

Scope SID is international in scope with membership in academic, commercial and government organizations. Display theory, display device and systems development and psychological and physiological effects of displays are all within the area of activities performed by the society.

Standardization Activities Flat panel, cathode-ray and other display devices and systems definitions, test methods and tutorial documents. Two joint SID/EIA committees are currently active in writing standards. These are JT20 for Cathode-Ray Display Devices and JT33 for Flat Panel Displays.

Availability Directly through EIA or SID.

Keywords displays; definitions; characterization; viewability; data processing; electronics; television; communications;

SOCIETY FOR TECHNICAL COMMUNICATION

William C. Stolgitis, Executive Director

901 N. Stuart Street
 Suite 904
 Arlington, Virginia 22203-1854
 (703) 522-4114 FAX: (703) 522-2075
 e-mail: stc@tmn.com

Founded: 1957 Standards Staff: 1

Type of Organisation Professional Society for Technical Communicators

Scope A nonprofit, educational membership organization whose purpose is to advance the theory and practice of technical communication in all media. It has chapters in the United States, Canada, and other countries. Activities include chapter programs, an annual international technical communication conference, publication of a journal, and standards and reference material used in technical documentation, manuals, reports, and writings.

Standardization Activities Maintains a Standards Council which is interested primarily in guidelines which bear directly upon the profession of technical communications, and data and procedural standards for science, engineering, and the arts that must be applied, interpreted, or referenced in technical communication. Cooperates with the American National Standards Institute, the Metric Association, and others concerned with publication of technical information.

Formerly Merger of Association of Technical Writers and Editors, and Society of Technical Writers (1957)

Keywords technical writing; technical information; communications; metric;

SOCIETY OF ALLIED WEIGHT ENGINEERS

Robert E. Johnston, Executive Secretary

5530 Aztec Drive
 La Mesa, California 91942-2110
 (619) 465-1367 FAX: (619) 465-2561

Founded: 1939 Standards Staff: 1

Type of Organization

Professional Society
 Developer of recommended practices

Standards Development

Develop Society of Allied Weight Engineers, Inc. (SAWE) Recommended Practices. Currently, ten (10) SAWE Recommended Practices are active. They were developed through government/industry volunteer member working committees. Typically, several dozen members are involved with the several committees. Once approved by a working committee, formal Board of Directors approval is required before Recommended Practices are adopted. First Recommended Practice was approved in 1981. None are processed through ANSI. None are distinctly metric.

Standards Designation

Approved Recommended Practices are designated Society of Allied Weight Engineers, Inc., Recommended Practice Number ---. Example: "Society of Allied Weight Engineers, Inc., Recommended Practice Number 5, Mass Properties Control System For Wheeled and Tracked Vehicles, Issue No. 1, Issued 13 May 1986."

Certification No certification, qualification, or accreditation programs.

Scope The Society of Allied Weight Engineers was organized to promote recognition of mass properties as a specialized discipline within the entire spectrum of professional engineering. The principal means of accomplishing this objective is an annual international conference for the presentation and discussion of engineering papers, including engineering standards and recommended practices, and to publish and distribute the papers, reports and recommended practices. There are approximately 1000 individual and/or company members worldwide.

Standardization Activities Government/industry working committees collect data, evaluate proposed procedures, determine nomenclature, etc., while developing and/or revising Recommended Practices through year-long reviews (sometimes several years) culminated by formal approval at the cognizant Government/Industry Workshop at the annual international conference. Formal approval by SAWE Board of Directors is also required before a Recommended Practice can be made available for use.

Availability Distributed directly.

Formerly Keywords Society of Aeronautical Weight Engineers, Inc. (1973)
balance; center of gravity; mass properties; moment of inertia; weight control;

SOCIETY OF AUTOMOTIVE ENGINEERS

Herb Kaufman, Manager, Technical Division

400 Commonwealth Drive
Warrendale, Pennsylvania 15096
(412) 776-4841 FAX: (412) 776-0243
WWW: <http://www.sae.org/>

Founded: 1905 Standards Staff: 125

Type of Organisation Professional Society
Standards Developer

Standards Development Standards developer since 1905.
14 000 members participating in standards activities.
1400 ground vehicle standards documents published in the SAE Handbook.
2250 Aerospace Standards.
2300 Aerospace Material Specifications.
Over 1500 documents annually are processed through ANSI.

Standards Designation	J-Reports, Ground Vehicle Industry Standard, Recommended Practice and Information Report. AMS, Aerospace Material Specification. MAM, Metric Aerospace Material Specification. AS, Aerospace Standard. MA, Metric Aerospace Standard. ARP, Aerospace Recommended Practice. MAP, Metric Aerospace Recommended Practice. AIR, Aerospace Information Report.
Government Adoption	The Department of Defense has adopted over 1300 SAE documents. SAE standards are recognized in government publications as methods for measuring or testing for minimum technical requirements in areas where government regulatory control has been established.
Accreditation	SAE operates several accreditation programs under the sponsorship of industry and government. The Lubricants Review Program and Oil Labeling Assessment Programs are operated for the U.S. Army. The JGES Verification Program is operated under a contract for NIST. A new Defense Contractor Accreditation (NADCAP) program will audit and approve suppliers to the aerospace industry.
Secretariats	Sponsors several secretariats and/or Technical Advisory Groups for ISO Technical Committees and Subcommittees including ISO/TC 20, TC 22, TC 70, TC 96, TC 127, TC 188, and TC 204.
Scope	<p>A not-for-profit educational, scientific, and engineering society dedicated to advancing the arts, sciences, standards, and engineering practices connected with the design, construction, and utilization of self-propelled mechanisms, prime movers, components thereof, and related equipment to preserve and improve the quality of life.</p> <p>Prime objectives are to provide educational opportunities for engineers and to provide a medium through which they can advance the arts and science of engineering and promote public welfare. There are only individual memberships in SAE. Therefore, members perform their SAE functions as individuals, not as representatives of their employers. SAE interfaces with every agency of the government concerned with the design, manufacture, or regulation of vehicles. Because of the government's interest in regulatory activities relating to transportation equipment, and as a large volume purchaser of vehicles of all types, government agencies have historically drawn upon SAE and its Cooperative Engineering Program for information and assistance.</p>

Develops and publishes technical literature and formulates engineering standards, specifications, and test procedures that are used in the design and manufacture of ground and aerospace vehicles.

**Standardization
Activities**

Engages in technical standardization work for the motor vehicles, aircraft, airline, space vehicles, farm tractor, earthmoving, roadbuilding machinery, and other manufacturing industries using internal combustion engines. Standards are the product of 600 Technical Committees. Standards are revised as needed to keep them up-to-date with new engineering developments. Obsolete standards are discontinued. Standards in the SAE Handbook include: safety performance test codes; material specifications; and dimensional requirements on such subjects as vehicle lighting, tires, brakes, ride and vibration, steels, non-metallic materials, screw threads, and involute splines. Although voluntary, SAE standards are widely used throughout industry and many federal and state regulations reference them for minimum performance on safety items.

SAE Aerospace Standards, Recommended Practices, and Information Reports are design and/or parts standards applicable to missile, airframe, ground-support equipment, propulsion, propeller, accessory equipment, and airline industries. Aerospace Recommended Practices give dimensional, design and/or performance recommendations intended as guides for standard engineering practice. The Aerospace Information Reports contain useful engineering data and information.

SAE Aerospace Material Specifications cover materials, material tolerances, quality control procedures and processes. They list chemical composition, detailed technical requirements, and cross-reference similar specifications and materials for corrosion and heat resistant steels; wrought low-alloy steels; cast iron and low-alloy steels; aluminum, magnesium, copper, titanium and miscellaneous nonferrous alloys; nonmetallics; special property materials; and refractory and reactive materials.

Availability

Distributed through ANSI, IHS, Global, American Technical Publishers, and the Defense Printing Service, CD-ROM.

Formerly

Society of Automobile Engineers (1917)

Keywords vehicles; automobiles; trucks; buses; aircraft; aerospace; engines; tractors; farm equipment; construction equipment; ground support equipment; fuels; lubricants; material; metals; alloys; refractories; defense; materials; transportation;

SOCIETY OF CABLE TELECOMMUNICATIONS ENGINEERS

William Riker, President

140 Philips Road
Exton, Pennsylvania 19341-1318
(610) 363-6888 FAX: (610) 363-5898

Founded: 1969 Standards Staff: 3

Type of Organization Professional Society
Standards Developer

Certification Technical certification programs available at three levels: Installer, Broadband Communications Technician and Broadband Communications Engineer.

Scope Membership is primarily comprised of engineers, technicians and installers working in the cable telecommunications industry. The Society provides numerous training programs on broadband technology.

Standardisation Activities ANSI approved standards developer. Five engineering subcommittees working on broadband industry hardware and interfaces.

Formerly Society of Cable Television Engineers, Inc.

Keywords broadband; telecommunications; cable television;

SOCIETY OF FIRE PROTECTION ENGINEERS

Brian Meacham, P.E., Technical Director

One Liberty Square
Boston, Massachusetts 02109-4825
(617) 482-0686 FAX: (617) 482-8184
e-mail: sfpehqtrs@delphi.com

Founded: 1950

Type of Organization Professional Society
Works through other organizations to develop standards

Representation 603 representatives serve on technical committees of the National Fire Protection Association

Scope Multinational professional society of fire protection engineers with more than 4150 members.

Keywords fire safety;

SOCIETY OF MOTION PICTURE AND TELEVISION ENGINEERS

Carlos V. Gilrod, Jr., P.E., Director of Engineering

595 W. Harsdale Avenue
 White Plains, New York 10607
 (914) 761-1100 FAX: (914) 761-3115
 e-mail: eng@smpte.org
 WWW: <http://www.smpte.org/>

Founded: 1916 Standards Staff: 5

Type of Organization Professional Society
 Standards Developer

Standards Development Standards developer since 1916.
 250 members participating in standards activities.
 160 active standards processed through ANSI.
 Draft standards available for review.

Standards Designation SMPTE prefix.
 Example: ANSI/SMPTE 273M-1995, SMPTE Standards for Television-Status Monitoring and Diagnostics Protocol.

Government Adoption DoD adopts these standards regularly.

Certification No certification, qualification, or accreditation programs.

Secretariats ISO/TC 35, Cinematography

Scope A nonprofit organization concerned with the engineering aspects of motion pictures, television, instrumentation, high-speed photography, and the allied arts and sciences. Develops technical standards for motion picture engineering and television.

Standardization Activities Activities divided among eight parent technology committees. Cooperates with national and international organizations such as AES, EIA, IEEE, major foreign national standards bodies. International Telecommunication Union (ITU), ISU, and IEC.

Availability Distributed directly or through ANSI.
Formerly Society of Motion-Picture Engineers
Keywords motion pictures; television; video recording; photography;
communications;

SOCIETY OF NAVAL ARCHITECTS AND MARINE ENGINEERS

Francis M. Cagliari, Executive Director

601 Pavonia Avenue, Suite 400
Jersey City, New Jersey 077306
(201) 798-4800 FAX: (201) 798-4985

Founded: 1893 Standards Staff: 3

Type of Organization Professional Society
Works through other organizations to develop standards

Representation ASTM F-25

Scope A technical, professional society of individual members serving the maritime and offshore industry and its suppliers. Activities include all aspects of research, design, production, maintenance and operation of ships, submersibles, yachts, boats, offshore and ocean bottom structures, and other advanced marine vehicles. Provides a forum for exchange of technical information. Administers a research program involving 100 individuals as voluntary members and permanent staff in cooperation with government and regulatory agencies, scientific and research laboratories, academic institutions, and the marine industry.

Standardization Activities Although not a standards developing organization, one of its technical panels has the responsibility of initiating standards and specifications for the Shipbuilding Standards Committee F-25 of the American Society for Testing and Materials (ASTM). This is Panel SP-6 (Standards and Specifications) of the Ship Production Committee. In this way, SNAME interfaces directly with the F-25 standards development activity. F-25 draws upon the expertise of the SNAME Technical and Research Program by soliciting comments on the need for certain shipbuilding standards and by using these same panels when conducting the necessary consensus review under the ASTM process. These standards are published periodically by ASTM.

Standards developed to date include various shipbuilding parts, such as cable brackets, hangars, pipe fittings and flanking, certain containers, angle irons, etc. Panel SP-6 is also involved in a program for the redrawing of selected naval military specifications into commercial ASTM standards. SNAME members are

called upon to review many of these standards along with the standards committees of ASTM.

Certain panels of the Society are also called upon to comment on the standards for small boats undertaken by Underwriters Laboratories (UL).

Keywords marine; shipbuilding; boats; transportation;

SOCIETY OF SANITARY ENGINEERING

Diana Corcoran, Executive Secretary

28901 Clemens Road
Westlake, Ohio 44145
(216) 835-3040 FAX: (216) 835-3488

Founded: 1906 Standards Staff: 3

**Type of
Organization**

Technical Society
Standards Developer

**Standards
Development**

38 active standards.
Standards submitted for ANSI approval.

**Standards
Designation**

SSE or ASSE prefix.

Certification

SSE Seal Program.

Scope

Plumbers, contractors, apprentices, journeymen, inspectors, engineers, health officials, and manufacturers interested in promoting public health and sanitation. Conducts research on plumbing and sanitation.

**Standardization
Activities**

Develops performance standards for plumbing system components. Standards provide a tool for measuring quality and effectiveness of a product. Products meeting these standards are identified by the ASSE Seal. Components of plumbing systems include backflow prevention devices, pressure regulators, water hammer arresters, water mixing and shower control valves, anti-siphon hydrants, and other devices which directly affect public health and safety.

Availability

Distributed directly and through IHS.

Formerly

American Society of Sanitary Engineering

Keywords plumbing; construction; sanitation; public health;

SOCIETY OF THE PLASTICS INDUSTRY

Larry L. Thomas, President

1275 K Street NW, Suite 400
Washington, DC 20005
(202) 371-5200

FAX: (202) 371-1022

Founded: 1937

Standards Staff: 10

**Type of
Organization**

Trade Association
Standards Developer

Certification

Sponsors a certification program for molded expanded polystyrene block insulation based on ASTM C578. Sponsors jointly with AAMA a certification program for vinyl window lineals based on ASTM D4727 and AAMA 303.

Scope

A trade and technical society of 2000 companies in the plastics industry interested in quality standards, research, uniform accounting, traffic rates, wage rate survey, tariffs, codes, public relations, informative labeling, safety, fire prevention, and food packaging. Membership consists of: injection, compression, and transfer molders; laminators; extruders; fabricators; calenders; printers; embossers; reinforced plastics processors; raw material suppliers; machinery and equipment manufacturers; tool, die and mold makers; research and development; and testing laboratories.

**Standardization
Activities**

Cooperates and supports the preparation of standards for plastics products through organizations such as the American Society for Testing and Materials, the American National Standards Institute, and the National Sanitation Foundation. Financially supports the U.S. secretariat to the International Organization for Standardization, ISO/TC 61, Plastics, and participates in its activities. Also participates in ISO/TC 138, Plastic Pipe, Fittings and Valves for the Transport of Fluids.

Two divisions of the society develop product performance standards and test methods, which are processed through the American Society for Testing and Materials. These activities maintain liaison with code and regulatory agencies and work to have vinyl building components accepted as generic products in code standards.

Keywords plastic; laminate; molding; machinery; materials; building products;

SOLAR RATING AND CERTIFICATION CORPORATION

Linda Ladas, Administrative Manager

122 C Street, NW
Washington, DC 20001
(202) 383-2650

FAX: (202) 383-2670

Founded: 1974

Standards Staff: 4

Type of Organization Rating and Certifying Body

Standards Designation SRCC prefix.

Certification The Solar Rating and Certification Corporation (SRCC) certifies several independent testing laboratories for solar collector and solar domestic hot water systems tests. SRCC randomly selects equipment for testing, interprets test data, and publishes a certified product rating directory.

Scope Manufacturers and installers of solar energy systems and components, and distributors, contractors, and engineers whose purpose is to accelerate and foster commercialization of solar energy conversion for economic purposes. Compiles statistics and offers computerized services.

Standardization Activities The Solar Rating and Certification Corporation develops solar industry certification for heating equipment. Members are also involved in international standards development activities.

Approximately 25-50 member companies are involved at different times in several certification organizations.

Availability Distributed directly.

Keywords solar collectors; water heating; testing; energy;

SOUTHERN BUILDING CODE CONGRESS INTERNATIONAL

W. J. Tangye, P. E., Chief Executive Officer

900 Montclair Road
Birmingham, Alabama 35213
(205) 591-1853 FAX: (205) 592-7001

Founded: 1940 Standards Staff: 10

Type of Organization Professional Society
Standards Developer

Standards Development Standards developer since 1945.
5500 members active in standards activities.

Standards Designation The Standard Building, Plumbing, Mechanical, Gas, Fire
Prevention and Housing Codes.

Government Adoption These codes have been adopted by reference by some
2200 communities primarily in the Southwest, South, and Southeast.

Certification Provides educational and certification programs for persons
involved in the administration and enforcement of building codes.

Scope Promulgates codes that will assure the minimum acceptable level of
life safety in the building environment. These cover the entire
scope of the construction industry as related to buildings and
structural occupied by the public. Also provides technical,
educational and computer support to users of the codes.

Standardization Activities Holds public hearings to update codes. Any interested
party may submit proposed changes and participate in the public
hearings, two of which are held each year.

Availability Distributed directly.

Formerly Southern Standard Codes

Keywords building code; mechanical code; gas code; fire code; safety;
housing code; safety; construction; building;

SOUTHERN CYPRESS MANUFACTURERS ASSOCIATION

Susan M Regan, Executive Vice President

400 Penn Center Blvd., #530
Pittsburgh, Pennsylvania 15235
(412) 829-0770 FAX: (412) 829-0844

Founded: 1917 Standards Staff: 2

Type of Organization Trade Association
Standards Developer

Scope Producers, wholesalers and distributors of cypress lumber and manufacturers of other cypress products.

Standardization Activities Publishes grading rules for cypress lumber.

Availability Distributed directly.

Keywords wood products; grading rules; lumber; cypress;

SOUTHERN FOREST PRODUCTS ASSOCIATION

Karl W. Lindberg, President

P.O. Box 641700
Kenner, Louisiana 70064-1700
(504) 443-4464 FAX: (504) 443-6612

Founded: 1915 Standards Staff: 1

Type of Organization Trade Association
Works through other organizations to develop standards

Scope An association of 38 southern pine companies with 142 mills (located from Texas to Virginia). Conducts marketing research and public affairs programs and a biennial machinery exposition.

Standardisation Activities Standards developed through organizations like the Southern Pine Inspection Bureau, American Forest & Paper Association, American Wood Preservers Association, and the American Society for Testing and Materials are used extensively in SFPA marketing efforts. These include span tables, recommendations for end use applications, treating specifications, metric conversions, model building codes, and other similar activities dealing with lumber applications.

Formerly Southern Pine Association

Keywords lumber; wood products;

SOUTHERN PINE INSPECTION BUREAU

Tom S. Jones, President

4709 Scenic Highway
Pensacola, Florida 32504-9094
(904) 434-2611 FAX: (904) 433-5594

Founded: 1940 Standards Staff: 8

**Type of
Organization**

Service Bureau
Standards Developer

**Standards
Development**

Standards developer since 1940.
374 subscribers representing 70 percent of Southern Pine
production.
Five active standards.

**Standards
Designation**

SPIB prefix.

**Government
Adoption**

The Departments of Defense and Veterans Affairs,
Federal Housing Administration, and various state and
local regulatory agencies have adopted and recognized the Southern
Pine Inspection Bureau Grading Rules.

Certification

Maintains a certification program in which it licenses subscribers
to use its registered grade-mark when subscribers meet the
necessary qualifications. The Bureau maintains a similar program
for companies that treat lumber by a pressure process for
protection against insect and decay attack with approved chemicals
in accordance with the standards of the American Wood Preservers
Association. The quality of lumber treated by the pressure
process is under the supervision of Bureau Quality Supervisors.
Those treating plants which prove their proficiency and capability
of maintaining the required level of treatment are licensed to
apply the Bureau quality mark to their lumber.

Scope

An autonomous nonprofit agency and the recognized organization in
the Southern Pine industry for the formulation and maintenance of
grading standards. Has carried on a standardization program since
1940 developing grading rules for Southern Pine lumber in
conformance with the Board of Review of the American Lumber
Standards Voluntary Products Standard PS 20-94, published by the
National Institute of Standards and Technology, National
Evaluation Service of CABO, and ANSI.

Certified as a supervisory grading agency by the Board of Review
of the American Lumber Standards Committee.

**Standardization
Activities**

Actively participates in the formulation and maintenance of the American Lumber Standards for Softwood Lumber. Maintains representation on the Committee on Wood of the American Society for Testing and Materials and American Wood Preservers Association. Member of ANSI.

Maintains standards of size and grade classifications for the benefit of the lumber using public and the lumber manufacturing industry. These include domestic and export grade rules and standards for glued lumber and mechanically graded lumber. Provides inspection facilities. These inspection facilities are used not only as a means of adjudicating disputes between buyers and sellers, but also for the certification of Southern Pine Lumber before shipment from the mill. Grading and manufacture are under the supervision of Bureau Quality Supervisors. Those mills which prove their proficiency in grading and agree to maintain the established standards of size and grade moisture content are licensed to grade-mark their lumber with a Bureau mark.

Availability

Sold directly.

Keywords

wood products; grading rules; lumber; wood preservation; inspection;

SOUTHWEST RESEARCH INSTITUTE

Joseph S. Kittle, Director

Program Development Office
Post Office Drawer 28510
San Antonio, Texas 78228-0510
(210) 522-5498 FAX: (210) 522-3496

**Type of
Organization**

Nonprofit Research Institute
Works through other organizations to develop standards

Representation

ANSI, ASME, API, ASTM, IEEE, NFPA, SAE, National Marine Manufacturers Association, BOAC, SSBCCI, USL, UL, ISO, IMO

**Standardization
Activities**

Works with SAE and API under sponsorship of the Coordinating Research Council, Inc., in the development of rating standards used to subjectively rank the results of an engine oil test. These rating standards evaluate sludge, varnish, rust, and other visible phenomenon, such as ring sticking, scuffing, and wear. These standards are the only recognized subjective rating techniques used by industry in the evaluation of engine lubricants. In a similar capacity, develops standardized test procedures and performs certification testing to evaluate two-cycle engine lubricants for the National Marine Manufacturers Association. Worked with ASTM and automobile manufacturers in the development of the industry-recognized Sequence Tests for diesel

and gasoline engine lubricants. Participated in development of standards for electromagnetic compatibility which resulted in SAE J1338 and J1115. Evaluates the fire performance of a variety of materials, products, and construction elements. Performs a wide array of environmental testing up to and including seismic.

Keywords

certification; lubrication; engines; testing; EMC; electrical equipment; materials; fire performance; fire testing; flame spread; environmental testing; seismic testing;

SPECIAL LIBRARIES ASSOCIATION

David Bender, Executive Director

1700 18th Street, NW
Washington, DC 20009-2508
(202) 234-4700 FAX: (202) 265-9317
e-mail: slal@capcon.net

Founded: 1909 Standards Staff: 1

**Type of
Organization**

Professional Society
Works through other organizations to develop standards

Representation

Represented on ANSI committees concerned with development of standards in the following areas: library/information science and publishing practices, photographic reproduction, and library equipment.

Scope

An international organization of more than 15 000 librarians and information managers. Serves industry, business, government agencies, research, educational, and technical institutions requiring or providing specialized information.

**Standardization
Activities**

Participates in the work of ANSI accredited organizations including PMS, Photographic Reproduction of Documents; Z39, Library/Information Science and Related Publishing Practices; Z85, Library Equipment and Supplies. Works with maintenance organizations, especially the National Information Standards Organization (NISO) and ISO Technical Advisory Group 46. The SLA Standards Committee provides guidance in these areas.

Keywords library equipment; library science; information processing; office products;

SPORTING ARMS AND AMMUNITION MANUFACTURERS' INSTITUTE

Robert T. Delfay, Executive Director

Flintlock Ridge Office Center
11 Mile Hill Road
Newtown, Connecticut 06470-2359
(203) 426-1320 FAX: (203) 426-1087

Founded: 1926 Standards Staff: 1

Type of Organization

Trade Association
Standards Developer

Standards Development

Standards developer since 1926.
41 representatives active in standards activity.
Draft standards available for review.

Standards Designation

ANSI/SAAMI and SAAMI prefixes.

Government Adoption

Used by Department of Defense in relation to manufacturing, testing, and performance specifications of commercial ammunition purchased by the United States government.

Scope

Serves the mutual interests of the United States sporting firearms and ammunition industry with emphasis on activities to assure safe use of these products by sportsmen and others having a lawful need for them.

Standardization Activities

Maintains a Technical Committee which reviews industry test methods, procedures, and recommended manufacturing safety practices; two subcommittees work in the areas of ammunition and firearms. Establishes definitive proof loads recommended for factory tasting of United States made sporting firearms, thus assuring greater safety to the user of such arms. Maintains liaison with the Department of Defense in relation to manufacturing, testing, and performance specifications of commercial ammunition purchased by the government

Availability

Sold directly and through ANSI.

Formerly

The Society of American Manufacturers of Small Arms and Ammunition (1918-1926)

Keywords

ammunition; firearms; defense; safety; sports;

SPORTS CAR CLUB OF AMERICA

Nicholas Crow, President

9033 E. Easter Place
Englewood, Colorado 80112
(303) 694-7222

Founded: 1944

Standards Staff: 2

**Type of
Organization**

Recreational/Technical Society
Standards Developer

Scope

A nonprofit organization with 52 000 members. Sanctions national and regional races and ten major professional racing series listed on the International Calendar. Sanctions rallies (precision driving tests over a given route at an exact speed), solo events (intricate driving maneuvers in a cleared area), concours d'elegance (rating cars by a correlation of age, condition, and equipment of the vehicle), and numerous international events and world championship races.

**Standardization
Activities**

Develops safety standards for competitions, and standards and procedures for speed events for automobiles taking part in such events, for issuance of competition licenses, and for the organization and conduct of its events. These standards and procedures are published in General Competition Rules; Rally and Solo Rules; and Professional Racing Regulations.

Participates in American National Standards Committee Z90, Vehicular Head Protection, concerned with safety requirements for head protection for automobile drivers engaged in high hazard activities or occupations, as well as crash helmets for motorcyclists, designated as American National Standard Z90.1.

Availability

Distributed directly.

Keywords

sports; automobile racing;

STANDARDS COMMITTEE FOR HI-LOK, HI-TIGUE, AND HI-LITE PRODUCTS

Frank L. Gill, Chairman

2600 Skypark Drive
Torrance, California 90509-2975
(310) 326-8110

FAX: (310) 784-4096

Standards Staff: 1

Type of Organisation	Trade Association Standards Developer
Certification	Licenseses are under surveillance and approval by the Committee.
Scope	Actively engages in standardization activities for fasteners. Membership includes and is open to licenseses of Hi-Shear Corporation, users of products, and government standardization representatives.
Standardization Activities	Develops, publishes, and maintains hundreds of proprietary product standards, specifications, and process procedures for the proprietary Hi-Lok, Hi-Tigue, and Hi-Lite fasteners. Holds two official meetings each year, one of which is an international meeting held in Europe. Solicits input from all members.
Availability	Distributed directly.
Keywords	fasteners; manufacturing;

STANDARDS ENGINEERING SOCIETY

Donald L. Kear, P.E, Cstd, Executive Director
 1706 Darst Avenue
 Dayton, Ohio 45403-3104
 (513) 258-1955 FAX: (513) 256-9919
 Founded: 1947 Standards Staff: 1

Type of Organization	Professional Society Standards Developer
Representation	Approximately 50 percent of the members participate in standardization activities of standards developers ranging from international organizations to trade associations. Membership is open nationally and internationally.
Certification	Certification program exists in Standards Application, Standards Management, Standards Information, and Standards Development. Certification is open to members and nonmembers.
Scope	A professional technical society of 450 standards practitioners for companies and government agencies. Objectives include providing a forum for the exchange of information in the standardization discipline and promoting the knowledge and use of national and international standards.

Standardization Activities SES does not generally develop standards as a society, but members represent their organizations on numerous national and international standards making committees. The Society, however, has approved an American National Standard, "Recommended Practice for Standards Designation and Organization," that covers designations, titles, keywords, abstracts, and formats for standards.

Formerly Standards Engineers Society (1980)

Keywords standards profession; general; social welfare; standards users;

STEEL DECK INSTITUTE

Bernard E. Cromi, Managing Director

P.O. Box 9505
 Canton, Ohio 44711
 (216) 493-7886 FAX: (216) 493-7928
 Founded: 1936 Standards Staff: 2

Type of Organization Trade Association
 Standards Developer

Standards Development Standards developer since 1939.
 Active in AISI, AISC and ASCE.
 None processed through ANSI.

Representation Technical personnel of member firms serve on standards committees and subcommittees of organizations such as AISI, AISC and ASCE.

Certification Provides its members, as well as non-member, a product certification service conducted by independent engineers at appropriate charges.

Scope Manufacturers of steel roofs and steel floor decks. Formulates technical recommendations for improvement of metal deck construction and develops standard design practices. Promotes proper building regulations. Conducts research on earthquake construction and fire and wind resistance. Compiles statistics.

Standardization Activities Periodically publishes the Steel Deck Institute Design Manual for Composite Decks, Form Decks, and Roof Decks. It contains: Specifications and Commentaries, the Code of Recommended Standard Practice, Roof Deck Construction, Suggested Architect's Specifications, SDI Standard Load Tables, Roof Deck Fire Resistance Ratings, and Cantilever Criteria. Also publishes the Steel Deck Institute Diaphragm Design Manual.

Formerly Metal Roof Deck Technical Institute

Keywords steel decks; roofs; building;

STEEL DOOR INSTITUTE

J. Jeffery Wherry, Managing Director

30200 Detroit Road
 Cleveland, Ohio 44145
 (216) 899-0010 FAX: (216) 892-1404

Founded: 1954 Standards Staff: 5

Type of Organization Trade Association
 Standards Developer

Standards Development Standards developer since 1954.
 12 member companies participating in standards activities.
 Seventeen active standards including three ANIS standards.

Government Adoption SDI standards have been adopted by numerous government agencies.

Certification No certification, qualification, or accreditation programs.

Scope A nonprofit trade association of United States companies engaged in the production for sale of swing type steel doors and frames in the construction industry.

Standardization Activities Administered by its Technical Committee, standardization activities represent a large percentage of the Institute's total program. Maintains liaison with numerous federal agencies including General Services Administration, Army Corps of Engineers, Department of Defense, Department of Housing and Urban Development, Federal Housing Administration and the Department of Veterans Affairs. Works closely with various code groups and has been instrumental in establishing and promulgating a great number of standards helpful to the construction industry, including: standardized specifications for steel doors and frames; standardized hardware locations and hardware preparation; building code improvements; and performance specifications.

Availability Distributed directly.
Keywords steel doors; frames; building;

STEEL FOUNDERS SOCIETY OF AMERICA

Malcolm Blair, Technical and Research Director
Cast Metals Federation Building
455 State Street
Des Plaines, Illinois 60016
(708) 299-9160 FAX: (708) 299-3105
Founded: 1902 Standards Staff: 2

Type of Organization

Trade Association
Standards Developer

Standards Development

Standards developer since 1964.
80 members participating in standards activities.
14 specifications on foundry raw materials.

Standards Designation

SFSA prefix.

Certification

No certification, qualification, or accreditation programs.

Secretariats

U.S. Subcommittee Advisory Group to ISO/TC, 17/SC 11, Steel Castings

Scope

Manufacturers of steel castings. Compiles statistics and conducts research programs.

Standardization Activities

Develops own standards for foundry raw materials and works through other organizations to develop standards for the manufacture and use of carbon, low alloy and high alloy steel castings. Also participates in ASTM, ISO, ANSI, NACE, API, MSSVFI, ASME standards activities.

Availability

Distributed directly.

Formerly

Alloy Casting Institute (1970)

Keywords

steel; castings; high alloy; foundry; materials;

STEEL JOIST INSTITUTE

R. Donald Murphy, Managing Director

1205 48th Avenue North, Suite A
Myrtle Beach, South Carolina 29577
(803) 449-0487 FAX: (803) 449-1343

Founded: 1928

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1928.

Certification

Established certification procedures are required for member companies.

Scope

A nonprofit organization of manufacturers engaged in the manufacture and distribution of steel joists. Objectives are: to establish and standardize methods of design and construction for steel joists; to provide test and research data for public dissemination; to assist in the development of appropriate building code regulations; and to publish information relative to the proper use of steel joists in the interest of safety and public welfare.

**Standardization
Activities**

Current standard specifications are recognized throughout the industry and include Load Tables for Open Web, Longspan, and Deep Longspan Steel Joists comprising K-Series, LH-Series and DLH-Series. In addition, the Institute has developed standard specification and weight tables for Joist Girders, which are primary structural members.

Availability

Sold directly.

Keywords

joist; steel joists; building;

STEEL MANUFACTURERS ASSOCIATION

James F. Collins, President

1730 Rhode Island Avenue, NW
Suite 907
Washington, DC 20006-3101
(202) 296-1515 FAX: (202) 296-2506
e-mail: steelnet@aol.com
WWW: <http://www.steelnet.org>

Founded: 1988

Standards Staff: 2

Type of Organization Trade Association
Works through other organizations to develop standards

Scope A North American trade association with 59 members producing steel mill products, accounting for 40 percent of United States steel production. Most of the membership are electric furnace steel producers. The SMA provides a forum for the exchange of information on technical matters and operations; develops and supports public policy positions consistent with the interests of its members; and serves as a source of information on the steel industry to suppliers, customers, and various governmental entities.

Standardization Activities Does not issue standards but sponsors American Society for Testing and Materials Standards A615, A616, A617 (Rail and Axle Steel, Concrete Reinforcing Bars, and a Standards Specification for Hot Rolled Steel Fence Posts). Additional counsel and committee activity with ASTM are also undertaken by the association.

Formerly Organization resulted from the merger in 1988 of the Steel Bar Mills Association and the National Steel Producers Association

Keywords steel; steel bars; materials;

STEEL PLATE FABRICATORS ASSOCIATION

Wade Newman, Executive Director

3158 Des Plaines Avenue
Des Plaines, Illinois 60018
(708) 298-0880

FAX: (708) 298-2015

Founded: 1933

Standards Staff: 2

Type of Organization Trade Association
Works through other organizations to develop standards

Representation Representatives of member companies are appointed to serve on standards committees of ANWA, ASME, ANSI, API, AWS, NFPA and others.

Scope A national trade association representing companies engaged in the fabrication and erection of all types of weldable metal plate into pressure and nonpressure tanks, processing and storage vessels, heat exchangers, penstocks, weldments, and other products for industries worldwide.

Standardization Activities Works with standards developing organizations to update accepted standards in order to keep current with continuing improvement in materials and techniques.

Keywords steel fabrication; steel plate; manufacturing; industrial equipment;

STEEL SERVICE CENTER INSTITUTE

David R. Roland, President

127 Public Square
Suite 2400
Cleveland, Ohio 44114-1216
(216) 694-3940 FAX: (216) 694-3940

Founded: 1909 Standards Staff: 1

Type of Organization Trade Association
Works through other organizations to develop standards

Representation Two safety specialists from member companies serve as voting delegates on ANSI B11 Committee.

Scope A voluntary trade association representing the interests of some 80 percent of the metal service center industry which serves the metal supply needs of some 300 000 manufacturers and fabricators through 1000 outlets.

Standardization Activities Participates in the development of safety standards for powerdriven machines used by the industry as developed through Committee B11.

Formerly American Iron, Steel, and Heavy Hardware Association (1909)
American Steel Warehouse Association (1934)
Steel Service Center Institute (1959)

Keywords metal; steel; distribution; materials;

STEEL SHIPPING CONTAINER INSTITUTE

Richard B. Norment, Executive Director

1101 14th Street, NW
Suite 1020
Washington, DC 20005-5601
(202) 408-1900 FAX: (202) 408-1972

Founded: 1944 Standards Staff: 2

Type of Organization Trade Association
Standards Developer

Standards Development SSCI serves as the Secretariat for the American National Standards Institute's ANSI MH2 Committee on new steel drums and pails. The current standards are issued in ANSI MH2-1996, which contains 24 separate standards for steel containers in common use.

Standards Designation ANSI MH2-1996.

Government Adoption By reference in military and federal specifications.

Secretariat Accredited Standards Committee MH2, Steel Drums and Pails

Scope The Steel Shipping Container Institute is the Secretariat for this committee which is comprised of representatives of groups directly affected by the consensus standards for steel drums and pails. These groups include carriers, manufacturers, user groups and regulators who agree on the rules and regulations which are covered by these standards. Public canvass is conducted by ANSI after the committee agrees to content. Once any comments resulting from the canvass are resolved, the edited standards are published by ANSI and list the members of the committee including the SSCI Secretariat.

Availability Distributed through ANSI.

Keywords packaging; pails; drums;

STEEL STRUCTURES PAINTING COUNCIL

Dr. Bernard R. Applemer, Executive Director
 40 24th Street
 Pittsburgh, Pennsylvania 15213
 (412) 281-2331 FAX: (412) 281-9992
 Founded: 1950 Standards Staff: 4

Type of Organization Technical Society
Standards Developer

Standards Development Standards developer since 1950.
85 active standards.
No current standards processed through ANSI.
Draft standards available for review.

Standards Designation SSPC prefix.

Government Adoption 27 standards adopted by DoD.

Certification Painting Contractor Certification Program.

Scope Determines and outlines the best methods developed for cleaning and painting steel; issues specifications covering practical and economical methods of surface preparation and painting of steel structures; and evaluates through long-range research programs (involving field and laboratory work) the various methods, coatings, and costs necessary to prevent or reduce corrosion on steel structures.

Standardization Activities 35 committees with 1000 members participating in standards activities. Assimilates the newest technology into usable and effective specifications for the coatings industry. Develops standards through a comprehensive voluntary consensus process. Issues standards for surface preparation, paint application, painting systems, and paints. Surface preparation specifications describe hand and power tool cleaning, chemical cleaning, and all levels of blast cleaning. Develops visual standards for surface appearance after cleaning as an optional supplement to the surface preparation specifications. Paint application standards for: shop, field, and maintenance painting; measurement of paint film thickness; guides for safety in paint application; and a guide for maintenance repainting. Also has visual standards for evaluating the degree of rusting on painted steel surface.

Availability Distributed directly and through IHS and Global.

Keywords protective coatings; anti-corrosion; painting; paint; steel; materials;

STEEL TANK INSTITUTE

Wayne B. Geyer, Executive Vice President

570 Oakwood Road
 Lake Zurich, Illinois 60047
 (708) 438-8265

FAX: (708) 438-8766

Founded: 1916

Standards Staff: 3

Type of Organization	Trade Association Standards Developer
Standards Development	Began developing standards in 1952. 30-40 volunteer members typically participate in the development of standards. 7 active standards. ANSI accreditation first obtained in 1995. Draft standards available for review only on case-by- case basis.
Standards Designation	STI prefix.
Government Adoption	The STI-P3 specification is referenced in U.S. Environmental Protection Agency 40 CFR 280, technical requirements for underground storage tanks.
Certification	Manufacturers become qualified to fabricate in accordance with STI-P3, ACT-100, Permatank, F921 and Fireguard specifications. Through a licensing process, STI administers a strict quality technical assurance program, utilizing independent quality assurance inspectors who routinely visit fabrication shops.
Scope	A trade association representing steel tank manufacturers and suppliers throughout the world on a wide range of technical, code, and related areas. Current membership consists of approximately 72 fabricator shops, 18 affiliate members who provide tank-related products and services, and 10 associate and international members. Develops and issues specifications covering fabrication methods for steel underground and aboveground storage tank technologies. Researches and develops recommended engineering, testing and installation practices for storage tanks and applicable issues such as corrosion control and secondary containment.
Standardization Activities	Seven committees with 40 members participating in standards activities. Through research and development, steel storage tank technologies and fabrication standards are developed and licensed to manufacturers. Developed underground storage tank (UST) standards for: exterior corrosion protection of steel; external corrosion protection of FRP composite steel; fiberglass-jacketed steel USTs; and dual-wall steel USTs. Developed above-ground storage tank (AST) standards for: steel ASTs with integral secondary containment; diked ASTs; and thermally insulated steel ASTs. Various recommended installation practices on both underground and aboveground storage tanks are developed and made available to contractors and other interested parties within the industry.

Availability Distributed directly.

Keywords steel tanks; underground storage; aboveground storage; corrosion protection; secondary containment; industrial equipment; construction; fuel storage; petroleum storage;

STEEL WINDOW INSTITUTE

John H. Addington, Executive Secretary

1300 Sumner Avenue
Cleveland, Ohio 44115
(216) 241-7333 FAX: (216) 241-0106

Founded: 1920 Standards Staff: 2

Type of Organization

Trade Association
Standards Developer

Standards Designation

"A Specifiers Guide to Steel Windows."

Scope

A trade association composed of American steel window manufacturers. Through research and interchange of ideas among its members, develops and makes available to the building trade better products and services. Conducts surveys to determine usage data.

Standardization Activities

Issues Recommended Specifications for Steel Windows after performing simplification studies to identify preferred types and sizes. Circulates recommendations to members and interested parties.

Availability

Distributed directly.

Formerly

Metal Window Institute

Keywords

windows; steel windows; building;

STUCCO MANUFACTURERS ASSOCIATION

Robert F. Welch, Executive Secretary

507 Evergreen Road
Pacific Grove, California 93950
(408) 649-3466 FAX: (408) 647-1552
e-mail: rweclb@redsift.com

Founded: 1957 Standards Staff: 1

Type of Organization Trade Association
Standards Developer

Scope Promotes the use of colored stucco finish coats in building construction. Increases industry's service to contractors, architects, and the public.

Standardization Activities Develops standards as needed. Although national in scope, standard variations are recognized because of geographic differences in climate, skilled manpower, and material availability.

Availability Distributed directly.

Keywords stucco; masonry;

SUMP AND SEWAGE PUMP MANUFACTURERS ASSOCIATION

Pamela W. Franzen, Managing Director

P.O. Box 647
Northbrook, Illinois 60065-0647
(708) 559-9233 FAX: (708) 559-9235

Founded: 1956

Type of Organization Trade Association
Standards Developer

Certification Provides a certification and labeling program for all products which conform to specified standards.

Scope A national trade organization representing the manufacturers of domestic sump sewage and effluent pumps, together with component and accessory suppliers. Activities include: development and promulgation of quality standards; spelling out design and performance criteria for sump sewage and effluent pumps used in homes; development and dissemination of statistical information designed to describe market size and activity; promotion of improved provisions in building codes on the use of such pumps; and education efforts designed to encourage proper and safe installation, maintenance, and use of domestic sump sewage and effluent pumps.

Standardization Activities Developed the Domestic Sump Effluent and Sewage Pump Standards which are national in scope and designed to supply the purchaser and user with accurate performance data and to assist in the determination of proper application and selection of this equipment. They provide a uniform method of testing and rating, and include a specification system covering basic materials of construction for all major components. They also detail minimum

specifications for motors, nameplate data, service cords, and control switches.

Availability Distributed directly.

Formerly Sump Pump Manufacturers Association (1981)

Keywords pumps; buildings; industrial equipment;

TECHNICAL AND OFFICE PROTOCOL (TOP)

see CORPORATION FOR OPEN SYSTEMS INTERNATIONAL

TECHNICAL ASSOCIATION OF THE PULP AND PAPER INDUSTRY

William L. Cullison, Executive Director

Technology Park/Atlanta
P.O. Box 105113
Atlanta, Georgia 30348
FAX (404) 1400-6947
e-mail: cbohanan@tappi.org

Founded: 1915 Standards Staff: 2

Type of Organization Technical Society
Test Method Developer

Standards Development Test methods developer since 1915.
276 Official, Provisional, and Classical Test Methods.

Standards Designation T -- Official, Provisional, and Classical Test Methods.
UM -- Useful Test Methods, which are published by TAPPI but have not been through the regulated review process; no new UMs have been published after 1989.

Scope Purposes are: to further the application of the sciences in the pulp and paper industry; to promote investigation, research, and interchange of ideas among its members in the field of pulp and paper manufacture and use; to promote education in the science and practice of pulp and paper manufacture; to arrange for the collection and dissemination of information; to provide technical facts, data, and testing procedures fundamental to pulp and paper manufacture and use; and to promote the professional, social, and economic welfare of its members.

Standardization Activities Publishes testing procedures which include Official, Provisional, Classical, and Useful Methods prepared by technical committees and approved by the various divisions of TAPPI in accordance with rules and regulations prescribed by the Test Methods Subcommittee of the Quality and Standards Management Committee. Classical Methods are former Official or Provisional Methods which have been superseded by advanced technology. Useful Methods are those found useful in the industry but not worthy of consideration as Official or Provisional Methods.

Cooperates with the American Society for Testing and Materials and the Intersociety Color Council in developing color standards, and the American National Standards Institute in promoting American and International Standards.

Availability Distributed directly and through IHS and Global.

Keywords pulp; paper; forest products; wood products; corrugated container; packaging;

TECHNICAL CERAMICS MANUFACTURERS ASSOCIATION

Richard C. Byrne, Secretary
 25 North Broadway
 Tarrytown, New York 10591
 (914) 332-0040 FAX: (914) 332-1541
 Founded: 1978 Standards Staff: 2

Type of Organization Trade Association
 Standards Developer

Scope Manufacturers of kiln fired ceramic compositions which result in ceramic products of many uses that withstand high temperature, long use, great mechanical, electrical and chemical stresses.

Standardization Activities Develops standards for general test methods, inspection sampling, loss factor tests, resistance to thermal extremes, and other technical characteristics.

Availability Distributed directly.

Formerly Dry Process Manufacturers Association
 Ceramic and Steatite

Keywords ceramic products; materials;

TELECOMMUNICATIONS INDUSTRY ASSOCIATION

Dan Bart, Vice President, Standards and Technology

2500 Wilson Boulevard
Suite 300
Arlington, Virginia 22201
(703) 907-7703 FAX: (703) 907-7727
e-mail: dbart@tia.eia.org
WWW: <http://www.industry.net/tia>

Founded: 1988

Standards Staff: 12

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Developed standards under the auspices of EIA's ANSI accreditation from 1988 and then became independently ANSI accredited in 1991. The Engineering Department provides the home for over 70 TIA Engineering Committees and Subcommittees that develop TIA standards and other technical publications. Over 1200 technical personnel from member companies participate in standards activities through committees, subcommittees and task groups.

**Standards
Designation**

TIA/EIA or EIA/TIA for American National Standards. Also develops Interim Standards (IS) and Telecommunications Systems Bulletins (TSB).

**Government
Adoption**

The Department of Defense adopts TIA Standards applicable to their needs.

Certification

None.

Secretariats

Administered through the Electronic Industries Association.

Scope

A national trade association of companies providing communications materials, products, systems, distribution services and professional services to the United States and countries around the world. TIA's member companies manufacture virtually all of the products used in the modern communications network. TIA is a full-service organization which provides numerous services including: government relations market support activities, such as trade shows and trade missions; standards setting activities; and educational programs. TIA represents the telecommunications industry in association with the Electronic Industries Association.

**Standardization
Activities**

Accredited by the American National Standards Institute in 1991, TIA is a major contributor of voluntary standards that promote trade and commerce in telecommunications products. Areas of expertise include: Antennas for Microwave Towers, Cellular Equipment for Analog, CDMA, TDMA, Cellular Intersystem standards,

Citizen's Band (CB) Radio, Data Interchange and Transmission Equipment including modems, Facsimile Equipment, Fiber Optics Cable Specifications, Cleaving Specifications, Closures Specifications, Connectors, Specifications, Optical Fiber System Designs, Optical Fiber System Testing, Symbols, Terminology, Fiber Optic Test Procedures, Tools, Waveguide Specifications, Land Mobile Communications Equipment, Point-to-Point Microwave Towers, Personal Communications Services (PCS), Telephones/Terminal Equipment, Key Systems, Network Channel Terminal Equipment, Private Branch Exchange (PBX) and Telecommunications Wiring/Cabling.

Availability Distributed through IHS, Global Engineering Documents and ANSI.

Formerly TIA was formed in April 1988 after a merger of the U.S. Telecommunications Suppliers Association (USTSA) and the Information and Telecommunications Technologies Group of the Electronic Industries Association (EIA/ITG).

Keywords cellular; citizen's band radio; data interchange; digital interfaces; facsimile; modems; land mobile communications; microwave; personal communications systems (PCS); network; telephones;

TEXTILE RENTAL SERVICES ASSOCIATION OF AMERICA

John J. Contney, Executive Director

1130 East Hallandale Beach Boulevard
Suite B

Post Office Box 1283
Hallandale, Florida 33008
(305) 457-7555

FAX: (305) 457-3890

Founded: 1913

Standards Staff: 3

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1978 in health care linen service and for linen, towels, and garments.
2200 members participating in standards activities.
28 active standards.
None processed through ANSI.
Draft standards available for review.

Standards Designation TRSA Guidelines For Healthcare Linen Service.
TRSA Voluntary Purchasing Standards.

Certification No certification, qualification, or accreditation programs.

Scope A national trade association representing companies world-wide engaged in the rental and commercial laundering/linen field. TRSA member companies provide laundry and linen service to all areas of United States hospitals and all types of commercial establishments.

Standardization Activities Directed toward fulfilling user defined requirements of the industry and its health care customers. Works closely with the American Hospital Association and the Joint Commission on Accreditation of Hospitals. TRSA standards relate to processing, delivery, cleanliness, sanitation, and management standards of textile rental service. Technical input is solicited throughout the hospital industry and its related trade associations and accrediting agencies.

Availability Distributed through TRSA member companies worldwide and directly.

Formerly Linen Supply Association of America (1978)

Keywords laundry; linen service; hospital; textiles; sanitation; public health;

TILE COUNCIL OF AMERICA

Robert E. Daniels, Executive Director

Post Office Box 1787
Clemson, South Carolina 29 33
(609) 921-7050 FAX: (609)452-7255

Founded: 1946 Standards Staff: 3

Type of Organization Trade Association
Standards Developer

Standards Development 17 active standards.
Processed through ANSI.

Scope A trade association of ceramic tile manufacturers dedicated to expansion of the ceramic tile industry in the United States through advertising, promotion, and research on tile installation methods.

Standardization Activities Maintains contact with government agencies and other national organizations to assist with development and interpretation of standards and specifications for installation of ceramic tile.

Annually publishes the guide specification Handbook for Ceramic Tile Installation. This covers all accepted ceramic tile installation methods and references installation and material standards applicable to the methods.

Availability Distributed directly and through ANSI.

Keywords tile; ceramic products; building;

TIRE AND RIM ASSOCIATION

J. F. Pacuit, Executive Vice President and Secretary

175 Montrose West Avenue
 Copley, Ohio 44321
 (216) 666-8121 FAX: (216) 666-8121

Founded: 1903 Standards Staff: 3

Type of Organization Technical Standardizing Organization
 Standards Developer

Standards Development Standards developer since 1917.
 None processed through ANSI.
 Draft standards not available for review.

Standards Designation Tire and Rim Standard.

Secretariats U.S. Technical Advisory Group for ISO/TC 31, Tires, Rims, and Valves.

Scope The technical standardizing body of the tire, rim, and related parts manufacturers for the United States

Standardization Activities Serves as the primary standards developing organization in areas such as tire loads, tire inflations, tire dimensions, recommended rims, dual spacings, rim dimensions, valve and valve hole dimensions for tire and rim equipment used on passenger cars, bicycles, motorcycles, motor scooters, trucks, buses, recreational vehicles, trailers, earthmovers, road graders, agricultural tractors and implements, industrial vehicles, mobile homes, and aircraft.

Availability Distributed directly.

Keywords tires; rims; valves; transportation; consumer products;

TOY MANUFACTURERS OF AMERICA

David A. Miller, President

200 Fifth Avenue
New York, New York 10010
(212) 675-1141 FAX: (212) 633-1429

Founded: 1916 Standards Staff: 4

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Designation**

ANSI Z315.1, Safety Requirements for Tricycles; ASTM-
F963-86, Voluntary Product Safety Standard for Toys; ASTM F834-95,
Standard Consumer Safety Specification for Toy Chests.

Secretariats

U.S. Technical Advisory Group for ISO/TC 181, Toy Safety
(participating member); ASTM. F15.22 subcommittee on Toy Safety.

Scope

The trade association for domestic producers and importers of
toys, games, and holiday decorations with 250 members which
together account for about 90 percent of the toy industry's total
sales. The Association is recognized by government, the trade,
the media, and consumers alike as the authoritative voice of the
United States toy industry.

Helps toy makers meet the many challenges of the toy manufacturing
marketplace. Its programs assist member companies in safety and
quality control, credit and collection, distribution management,
import/export trade, legal advice, public relations, statistics,
consumer information, media relations, and advertising guidelines.

**Standardization
Activities**

The Association actively participates, on both domestic
and international levels, in the drafting of safety standards; and
cooperates closely with governmental, safety, health, and consumer
organizations in the development and application of standards for
the safe use of playthings.

The industry's Voluntary Safety Standard ASTM F963-95
includes more than 100 separate testing and design specifications
to assure that normal use and abuse of toys will not result in a
hazard that could cause an injury.

Availability Distributed directly and through ANSI and ASTM.

Keywords toys; consumer products; safety;

TRAFFIC AUDIT BUREAU

Anra Fountas, President

420 Lexington Avenue
Suite 2520
New York, New York 10170
(212) 972-8075 FAX: (212) 972-8928

Founded: 1933 Standards Staff: 1

Type of Organization Professional Society
Standards Developer

Scope Consists of advertisers, advertising agencies, and operators of outdoor advertising plants. Furthers the joint interests of its membership and the general public.

Standardization Activities Establishes standard practices with respect to the circulation, evaluation, and visibility of outdoor advertising; supervises and directs practices in connection with the collection, recording, and authentication of traffic and other data related to outdoor advertising; and prepares and issues standardized factual statements of the circulation values of outdoor advertising plants.

Availability Distributed directly.

Keywords advertising; communications;

TRUCK MIXER MANUFACTURERS BUREAU

Raymond F. Wisniewski, Jr., Secretary

900 Spring Street
Silver Spring, Maryland 20910
(301) 587-1400 FAX: (301) 585-4219

Founded: 1945 Standards Staff: 2

Type of Organization Trade Association
Standards Developer

Certification Rating plates are affixed to all mixers meeting Bureau standards.

Scope Represents manufacturers of concrete truck mixers.

Standardization Activities Participates with government in the development and interpretation of specifications. Cooperates with the National Ready Mixed Concrete Association to develop standards. Standards cover truck mixers and agitators, whether truck or trailer mounted. Publishes Truck Mixer and Agitator Standards.

Availability Distributed directly.

Keywords concrete; concrete mixers;

TRUCK TRAILER MANUFACTURERS ASSOCIATION

Donald W. Viermias, Vice President Engineering

1020 Princess Street
 Alexandria, Virginia 22314
 (703) 549-3010 FAX: (703) 549-3014

Founded: 1941 Standards Staff: 4

Type of Organization Trade Association
 Standards Developer

Standards Development Presently offers 70 Recommended Practices and 48 Technical Bulletins.
 83 Trailer manufacturing companies participate in development.
 None processed through ANSI.

Standards Designation Recommended Practices and Technical Bulletins are by Number.

Certification No certification, qualification, or accreditation programs.

Scope An international trade association that represents the manufacturers of truck pulled trailers, cargo tanks, and intermodal containers, and manufacturers supplying components and parts to the trailer, tank, and container manufacturing industry.

Standardization Activities Recommended practices are issued as suggested solutions to design, specification, and manufacture or tests of truck trailers and their components. Examples include: trailer hitches and connections, air brake system tests, lighting devices, and tank construction.

Technical bulletins are issued to aid carriers or shippers in the operation of truck trailers or to improve their serviceability or use. Examples include: brake performance test methods, tank venting, corrosion prevention, and electrical wiring.

Works with organizations such as ANSI, ISO, the American Trucking Association, the Association of American Railroads, the Society of Automotive Engineers, American Petroleum Institute, U.S. Department of Transportation, U.S. Environmental Protection Agency, National Fire Protection Association, and others.

Availability Distributed directly.

Keywords trailers; containers; tractor-trailers; transportation; cargo tanks;

TRUSS PLATE INSTITUTE

Charles E. Goehring, Managing Director

593 D'Onofrio Drive, Suite 200

Madison, Wisconsin 53719

(608) 833-5900

FAX: (608) 833-4360

Founded: 1961

Standards Staff: 1

Type of Organization Trade Association
Standards Developer

Standards Development 15 members active in standards development.

Standards Designation TPI, PCT, DSB, and QST prefixes.

Certification Provides an in-plant inspection service for manufacturers of metal plate connected wood trusses in accordance with Uniform Building Code (UBC) Standards under its Quality Control Inspection Program. TPI is recognized as an approved quality control agency for the inspection of metal plate connected wood trusses.

Scope A nonprofit organization of manufacturers engaged in the production and distribution of metal connector plates for the trussed rafter industry; maintains the industry on a sound engineering basis by establishing methods of design and construction for wood trussed rafters using metal connector plates; provides test and research data for public dissemination; assists in the development of proper building code regulations; and disseminates information relative to the proper use of wood trussed rafters in the interest of safety and public welfare.

Standardization Activities Develops design standards for metal plate connected wood trusses, metal plate connected parallel chord wood trusses, and temporary bracing of metal plate connected wood trusses. Publishes a quality control standard, and a commentary on handling, installation and bracing of wood trusses. Promotes product acceptance with code authorities. Also publishes design criteria.

Availability Distributed directly.

Keywords wood trusses; wood rafters; wood products; building; metal connector plates; truss plates;

TUBE AND PIPE ASSOCIATION, INTERNATIONAL

Nancy Olson, Director of Membership

833 Featherstone Road
 Rockford, Illinois 61107-6302
 (815) 399-8700 FAX: (815) 399-7279

Founded: 1983 Standards Staff: 1

Type of Organization Educational Association
 Standards Developer

Standards Development TPA has 2 active voluntary tube and pipe bending standards -- one for cold bending and one for induction bending.

Scope An international educational association established to disseminate current and evolving technical and business information to producers and fabricators of tube and pipe.

Standardization Activities Voluntary standards on tube and pipe bending are developed by Association Committees.

Availability Directly from the association.

Formerly International Pipe Association, 1990
 Tube and Pipe Fabricators Association, 1995

Keywords tube; pipe bending; pipe fabrication; pipe joining methods;

TUBULAR EXCHANGER MANUFACTURERS ASSOCIATION

Richard C. Byrne, Executive Director

25 North Broadway
Tarrytown, New York 10591
(914) 332-0040 FAX: (914) 332-1541

Founded: 1939 Standards Staff: 1

**Type of
Organization**

Trade Association
Standards Developer

Scope

Composed of manufacturers of shell and tube heat transfer equipment; establishes and maintains high-level design and manufacturing standards. Sponsors research programs and provides a forum for exchange of technical information.

**Standardization
Activities**

TEMA standards are prepared in 10 sections which clarify and expand material, thermal, and physical properties of fluids and contains other information related to various classes of exchangers. Three TEMA Engineering Software programs are also available.

Availability

Distributed directly.

Keywords

heat transfer; industrial equipment;

TUBULAR RIVET AND MACHINE INSTITUTE

Richard C. Byrne, Administrator

25 N. Broadway
Tarrytown, New York 10591
(914) 332-0040 FAX: (914) 332-1541

Standards Staff: 1

**Type of
Organization**

Trade Association
Standards Developer

Scope

Represents United States companies engaged in the manufacture of rivets and rivet setting machines in technological areas.

**Standardization
Activities**

Works within the voluntary standards system to coordinate industry standards activities and acts as an industry voice. Ten members active in standards development. Distributes Metric Dimensional Standards for General Semi-Tubular Rivets. Is represented on industry standards and ANSI committees.

Availability Distributed directly.
Formerly Tubular and Split Rivet Council
Keywords rivets; fasteners; manufacturing;

TURFGRASS PRODUCERS INTERNATIONAL

Douglas H. Fender, CAE, Executive Director
1855-A Hicks Road
Rolling Meadows, Illinois 60008
(708) 705-9898 FAX: (708) 705-8347

Founded: 1967

Type of Organization Trade Association
Standards Developer

Scope Objectives are: to promote efficient and economical production of sod; to develop standards in the industry; to promote the production of better quality sod and its proper use; and to increase public awareness of the industry.

Standardization Activities Developed national guideline specifications for sodding. Through use of sod specifications, assistance has been provided to various state and federal agencies, architects, landscape architects, contractors, and a wide variety of professional turfgrass managers.

Availability Distributed directly.

Keywords sod; seed; turf; grass; agriculture;

ULTRASONIC INDUSTRY ASSOCIATION

Martha Graff, Coordinator

P.O. Box 528
Hilliard, Ohio 43206-8353
(614) 771-1972 FAX: (614) 771-1984

Founded: 1956 Standards Staff: 3

Type of Organization Trade Association
Standards Developer

Scope Comprised of manufacturers of ultrasonic equipment and component parts. Promotes the industry; cooperates with government on legislation; and researches the use and safety of products.

Standardization Activities Developed definitions covering basic industry terminology designed to promote a common language and facilitate understanding between manufacturers and users. Developed a standard rating covering ultrasonic generators.

Cooperates with the American National Standards Institute, the Institute of Electrical and Electronics Engineers, National Safety Foundation, Acoustical Society of America, National Electrical Manufacturers Association, and American Society for Testing and Materials. Provides assistance to various government agencies such as the Departments of the Navy and Air Force, and maintains standardizing liaison with other government agencies, such as the Federal Communications Commission.

Availability Distributed directly.

Formerly Ultrasonic Manufacturers Association (1973)

Keywords ultrasonic equipment; industrial equipment;

UNDERWRITERS LABORATORIES

Robert A. Williams, Corp. Manager, Standards and Research

333 Pfingsten Road
 Northbrook, Illinois 60062
 (708) 272-8800 ext.42570 FAX: (708) 509-6257
 WWW: <http://www.ul.com>
 Washington, DC
 (202) 638-2323 FAX: (708) 272-8129

Founded: 1894 Standards Staff: 80

Type of Organization Independent, Not-for-Profit Corporation Testing for Public Safety
 Developer of Standards for Safety

Standards Development Standards developer since 1903.
 686 published and 70 proposed Standards for Safety.
 452 ANSI approved, 291 being processed through ANSI procedures.
 Activities open to participation by interested parties.

Standards Designation UL Standards for Safety.

**Government
Adoption**

The Department of Defense has adopted more than 150 Underwriters Laboratories Inc. (UL) Standards for Safety. In addition, other government agencies, including the General Services Administration and the United States Coast Guard, either require compliance with UL Standards for Safety or accept UL certification as constituting compliance with applicable regulations.

Representation

UL personnel contribute to standards and code-making activities by serving as members of over 500 committees of national and international organizations including ANSI, NFPA, ASTM, IEC, ISO, and others.

Certification

UL offers five services by which products or systems may be identified as complying with the requirements of UL or other organizations or regulating agencies, or as otherwise having been investigated by UL in accordance with specified methods or procedures. These services, their applicability, and the method of identification are:

1. Listing -- Products that have been investigated with respect to reasonable foreseeable risks to life and property and for which the risks have been reduced to an acceptable degree. Products are identified by the UL Listing Mark.
2. Classifications -- Products that have been investigated with respect to one or more of the following: (a) specific risks only, (b) performance under specified conditions, (c) regulatory codes, or (d) standards of organizations other than UL, including international standards. This service is generally applicable to industrial and commercial products. Products are identified by the UL Classification Marking.
3. Recognition -- Products that have only been investigated for use as components of equipment Listed or Classified by UL. Products are identified by the manufacturer's identification and a model number or the equivalent. Products may also be identified by the UL Recognized Component Mark.
4. Certificate -- Products that comprise a field installed system investigated at a specific location, or specific quantities of certain products, under such conditions that it is impractical to apply the Listing Mark or Classification Mark to each product. Products or systems are identified by a Certificate issued by the manufacturer or installer under UL's authorization.

5. Registered Firm -- Facility Quality Assurance Systems, by means of assessment and subsequent surveillance, providing assurance of a firm's capability of working to their specifications. Facilities so registered are permitted to use the Registered Firm Mark in advertising, but not in connection with any product.

As an integral part of each of these five services, UL maintains a Follow-Up Service under which UL conducts factory inspections and counterchecks of manufacturers' inspection and test procedures for determining continued compliance with the requirements under which the product or system was initially investigated.

In cooperation with EIA, UL serves as the National Supervising Inspectorate (NSI) of the IEC Quality Assessment System for Electronics Components (IECQ-System) for the United States. The IECQ-System is designed to encourage international trade in electronic components. It is intended that components certified by an approved manufacturer in one participating country be acceptable to users in other participating countries without further testing. The NSI is the national organization responsible for the surveillance of all quality assessment necessary for the system, including these responsibilities: approval of manufacturers, independent distributors, and independent laboratories; supervision of the Certificate of Conformity; and audit testing of approved components.

Secretariats

ANSI C101.1, Leakage Current for Electrical Appliances
IEC/SC 31A, Flameproof Enclosures
IEC/SC 31H, Apparatus for Use in the Presence of Ignitable Dust
IEC/TC 61, Safety of Household and Similar Electrical Appliances
IEC/TC 61D, Appliances for Air Conditioning for Household and Similar Purposes
IEC/TC 61/WG9, Temperature Limits for Supplementary and Reinforced Insulation Under Abnormal Operation Conditions
IEC/TC 74, Safety of Data Processing Equipment and Office Machines

Scope

Objectives are: to evaluate products and systems or to conduct scientific investigations, studies, experiments, and tests to determine the relation of various materials, devices, construction, and methods to life, fire, and casualty hazards; to ascertain, define, and publish standards, classifications, and specifications for materials, devices, constructions, and methods affecting such hazards; and to provide other information tending to reduce or prevent damage from fire, crime, and casualty.

**Standardization
Activities**

The primary business of UL is product safety through Facility Registration Product Certification, and UL's Standards for Safety play an important part of this process of investigation, identification, and audit. Each of UL's engineering departments has prepared standards for use in this work. A catalog listing all available UL Standards for Safety is published twice yearly. Members of UL's five Engineering Councils assist and advise UL engineers in an effort to provide safety requirements that reflect realistic considerations of field experience and practical judgements, as well as sound engineering technology. UL Engineering Councils currently serve in the areas of Burglary Protection, Casualty, Electrical, Fire, and Marine.

The Consumer Advisory Council members advise UL in establishing levels of safety for consumer products. They also provide additional user field experience and information in the area of product safety and assist in educating the general public in the limitations and safer use of specific consumer products.

UL Standards for Safety are developed under procedures that provide for participation, review, and comment from industry, government, insurance groups, consumers, other interested parties, and the general public. These procedures take into consideration the needs and opinions of a wide variety of interests concerned with the subject of the standard and afford due process to all those who will be affected by the standard.

UL's Technical Assistance to Exporters (TATE) program offers help to exporters in getting information about international and foreign national standards and information about foreign laboratories and certification programs. UL will investigate a product in accordance with a published foreign national standard or an international standard. UL-generated data may then be submitted to a foreign test station for considerations as a part of their investigation. UL also maintains a Technical Information Center (TIC) for providing access to information about standards, regulations, and submission procedures of foreign countries. The Technical Information Center also includes selected translations of foreign specifications.

Availability

Distributed directly and through ANSI, IHS, Global Engineering Documents, the British Standards Institution, and the Standards Association of Australia. Translations of some UL Standards for Safety into languages other than English are available from the following organizations: French -- AFNOR; Japanese -- JMI Institute and the Japan Standards Association; and Korean -- Korea Institute of Machinery and Metals. UL Standards for Safety are available in microform and CD-ROM from IHS.

Formerly Underwriters Electrical Bureau (1901)

Keywords safety; certification; testing; burglary; casualty; marine; electrical equipment; fire protection; recreation; general; industrial equipment; consumer products; air handling; plastics; commercial equipment; building material;

UNIFORM CODE COUNCIL

Stephen A. Brown, Vice President, Secretary and Counsel

424 South Washington Street
Alexandria, Virginia 22314
(703) 684-1424 FAX: (703) 684-1426
e-mail: thvr78a@prodigy.com

Founded: 1971 Standards staff: 25

Type of Organization Standards development organization

Standards Development The UCC was created to administer the Universal Product Code (U.P.C.). Today, the UCC administers a variety of product identification standards and guidelines, and a variety of electronic data interchange standards. Typically, over 250 individuals participate in the development of standards.

Standards Designation Product identification standards are designated ANSI/UCCX-YYYY, with X = number of the standard and YYYY = year it became an American National Standard. Electronic Data interchange standards are designated by version and date, for example, Version 3050, 1995 is version 3, release 5 of 1995.

Government Adoption Two standards are currently referenced by the federal government.

Certification No certification, qualification, or accreditation programs.

Scope The UCC takes a global leadership role in establishing and promoting multi-industry standards supporting product identification and electronic data interchange. With over 165 000 members, the UCC's goal is to enhance the transaction and business processes that enable distribution channels to operate more efficiently and effectively while contributing added value to customers.

Standardisation Activities UCC staff, committees, and ad hoc groups, working with relevant industry organizations and groups, determine the needs of users. Once user needs are determined, we interface with technology suppliers to see if standards solutions can be proposed.

Availability Standards and guidelines are available through the UCC office: 8163 Old Yankee Road, Suite J, Dayton, Ohio 45458.

Formerly Uniform Grocery Product Code Council (1971)
Uniform Product Code Council (1975)

Keywords product identification; EDI; electronic data interchange; ADC; automatic data capture; container marking; U.P.C.; Universal Product Code; AI; Application Identifiers; bar codes; UCC/EAN-128; SSCC-18; SCC-14; WINS; Warehouse Information Network Standard; VICS EDI; Voluntary Interindustry Communication Standard; UCS; Uniform Communication Standard; SIL; Standard Interchange Language;

UNITED LIGHTNING PROTECTION ASSOCIATION

Elizabeth Cooper Wendover, President

Cooper Road, Box 329A
Millerton, New York 12546
(800) 668-ULPA FAX: (518) 789-4902

Founded: 1935

Type of Organization Trade Association
Works through other organizations to develop standards

Representation 100 members active in lightning protection activities of standards developers such as UL and NFPA.

Scope Provides reliable educational materials on the hazards of lightning and what constitutes proper lightning protection. Members must conform to the highest standards of lightning protection systems, engineering, installation, and service to maintain membership.

Standardization Activities Members serve on numerous committees and in other key roles in helping to establish various standards and codes, such as the Lightning Protection Code of the National Fire Protection Association and the Lightning Protection Installation Requirements Code of Underwriters Laboratories. Consulted frequently by building supply manufacturers, insurance firms, safety groups, and power companies to advise on potential hazards and proper lightning protection.

Keywords lightning protection; building; safety;

UNITED STATES COUNCIL FOR AUTOMOTIVE RESEARCH

Strategic Standardization Board(SSB)

Fairlane Plaza South
330 Town Center Drive
Suite 100
Dearborn, Michigan 48126
(313) 248-4300 FAX: (313) 248-4303
Standards Staff: 4

Type of Organization USCAR-Research Consortium
USCAR SSB-Standard Developer

Standards Development Develops standards, recommended practices, and technical reports.
- Created first standard in 1994.
- Approximately 30 individuals participate in the standards development process.
- 5 active standards and recommended practices.
- The USCAR Strategic Standardization Board has a contractual relationship with SAE International for document maintenance, publishing, and distribution services. Draft standards are available for review from SAE.

Certification The USCAR Strategic Standardization Board has no certification, qualification, or accreditation programs and has no intent to conduct such programs in the future.

Scope USCAR Strategic Standardization Board represents the technical standardization interests of Chrysler, Ford, and General Motors to identify and act on important opportunities for voluntary standardization. Specific goals are reduction in complexity, costs, timing, and improvement in quality. Major thrusts include anticipating the international spread of standards, influencing the development of new worldwide standards to assure compatibility of existing and emerging technologies and, with the support of their suppliers, proposing parts for joint engineering standardization and variety reduction.

Standardization Activities The USCAR Strategic Standardization Board has developed standards related to engineering processes and commodity specifications. These processes and specifications are implemented through Chrysler, Ford, General Motors, and their suppliers via SAE industry documents and procedures.

Availability Standards are distributed through SAE International.

Keywords automotive; polymers; engineering processes; fasteners;

UNITED STATES COUNCIL FOR INTERNATIONAL BUSINESS

Abraham Katz, President

1212 Avenue of the Americas
 New York, New York 10036
 (212) 354-4480

FAX: (212) 575-0327

Founded: 1945

Type of Organization

Trade Association
 Works through global business organizations to develop international standards

Representation

U.S. National Committee of the International Chamber of Commerce (ICC).
 U.S. Committee of the International Organization of Employers (IOE).
 U.S. Affiliate of the Business and Industry Advisory Committee (USA-BIAC) to the Organization for Economic Cooperation and Development (OECD).

Secretariats

U.S. Secretariat for the U.S. Coordinating Group on European Union Affairs (USICG)

Scope

A trade association of 300 United States based multinational corporations, law firms, and industry associations. Represents its members by keeping them informed of international business development having a major impact on their operations.

Standardization Activities

Works with ICC to harmonize trade practices and terminology resulting in Universal Standards and the Uniform Customs and Practice for Documentary Credits. Serves as the business voice in the International Labor Organization which is active in establishing international labor standards in the form of conventions which are binding on states which ratify them, and nonbinding recommendations. Works with OECD to provide models for national legislation, such as tax provisions, and voluntary standards of behavior for multinationals.

Keywords labor standards; social welfare; business; trade facilitation standards;

UNITED STATES CUTTING TOOL INSTITUTE

Charles M. Stockinger, Secretary/Treasurer

1300 Summer Avenue
Cleveland, Ohio 44115-2851
(216) 241-7333 FAX: (216) 241-0105

Founded: 1988 Standards Staff: 1

Type of Organization Trade Association
Works through other organizations to develop standards

Representation ASME TC 6/Milling Cutter Bodies

Scope A trade association of companies which produce cutting tools. Aims to reduce manufacturing costs through standardization and eliminate waste, while encouraging competition. Encourages advances in engineering and manufacturing techniques, research and safety in the industry. Functions as an industry voice in matters of business and national concern.

Standardization Activities Promotes the standardization of sizes, dimensions and tolerances in cooperation with ANSI, ASME and other national and international engineering organizations. Actively participates in technical and advisory committees of major national standardizing bodies. Promulgates American National Standards on twist drills, reamers, taps and milling cutters which form the basis of federal specifications and individual company standards, as well as reflecting current United States industry practice in the formulation of ISO standards. Publishes the Metal Cutting Tool Handbook and pamphlets such as Drilled Holes for Tapping, Tolerances for Twist Drills and Reamers, and Standards and Dimensions for Taps and Dies.

Formerly Cutting Tool Manufacturers of America; Metal Cutting Tool Institute.

Keywords cutting tools; metal; manufacturing;

UNITED STATES GOLF ASSOCIATION

David B. Fay, Executive Director

Golf House
P.O. Box 708
Far Hills, New Jersey 07931-0708
(908) 234-2300 FAX: (908) 234-9687

Founded: 1894 Standards Staff: 2

**Type of
Organization**

Trade Association
Standards Developer

Scope

National Club Membership consists of more than 9000 golf courses and clubs. Also more than 630 000 individual Members. Serves as a governing body for golf in the United States promotes scientific work in green keeping, environmental research, and turf management. Provides data on various topics, including handicapping and tournament procedures.

**Standardization
Activities**

Developed standards for golf balls and golf clubs. Maintains Rules of Golf used in the United States, with specifications concerning style and make of clubs, and size, weight, and velocity of golf balls included. These specifications are applicable to equipment and balls used in connection with tournaments.

Availability

Distributed directly.

Keywords

golf; golf equipment; sports; national championships, rules;

UNITED STATES HIDE, SKIN AND LEATHER ASSOCIATION

A division of the American Meat Institute

Jerome J. Breiter, President

1700 N Moore Street, Suite 1600
Arlington, Virginia 22209
(703) 841-5485 FAX: (703) 841-9656

Founded: 1980 Standards Staff: 2

**Type of
Organization**

Trade Association
Standards Developer

Scope

A national trade association representing the hide and skin trade. Members include meat packers, hide processors, brokers and dealers, and exporters. Organized to promote and improve relations and conditions in the hide industry. Maintains liaison with allied trades, as well as the government.

Standardization Activities Primarily concerned with developing a descriptive package to protect buyers and sellers of hides and skins. Standards describe the product and deal with delivery, trim, grading, weight loss in shipment, and tolerances with an emphasis on exporting.

Availability Distributed directly.

Formerly National Hide Association
American Association of Hides, Skins and Leather Traders

Keywords animal hide; leather; materials;

U.S. METRIC ASSOCIATION

Valerie Antoine, Executive Director

10245 Andasol Avenue
Northridge, California 91325
(818) 368-7443 FAX: (818) 368-7443

Founded: 1916 Standards Staff: 1

Type of Organization Professional Society
Works through other organizations to develop standards

Representation 1000 members participate in standards activities of the major standards developers. Some members are on metric committees of various standards writing groups

Certification USMA has a Certified Metrication Specialist (CMS) program that is administered by the USMA CMS Board. The CMS award is made after an applicant passes a stringent examination.

Scope A nonprofit organization representing 2000 members from many industries. Provides metrication information to companies; provides consumer and educational services. Also publishes a newsletter, Metric Today.

Standardization Activities Involved primarily in promulgating correct SI metric usage in cooperation with ANSI, ASME, ANMC, NAS, and other societies in order to draft metric standards and help determine correct usage of metric units.

Keywords metric; metric conversion; education; general; SI metric system;

UNITED STATES PHARMACOPEIAL CONVENTION

Jerome A. Halperin, Executive Vice President

12601 Twinbrook Parkway
Rockville, Maryland 20852
(301) 881-0665 FAX: (301) 814-8299
WWW: <http://www.usp.org>

Founded: 1820 Standards Staff: 36

**Type of
Organization**

Nonprofit Scientific Society
Standards Developer

**Standards
Development**

Standards developer since 1820.
138 members of the General Committee of Revision plus
about 500 persons in Expert Advisory Panels.
1450 USP Reference Standards.
3550 Official Monographs.
1000 under development.
None processed through ANSI.
Draft standards available for review.

**Standards
Designation**

USP, United States Pharmacopeia.
NF, National Formulary.

**Government
Adoptions**

The Food, Drug and Cosmetic Act makes USP and NF
standards enforceable by the Food and Drug Administration.
Comparable acts exist in most states. Canada and other countries
recognize USP-NF in their laws and/or regulations. USP Dispensing
Information is recognized as the authoritative compendia for
medically accepted indications for drugs.

Certification

USP is not a certifying agency. FDA is required by law to certify
each batch of insulin against USP standards before manufacturers
release it.

Scope

Recognized authorities in medicine, pharmacy, and allied sciences.
Revises and publishes the U.S. Pharmacopeia (USP) and the National
Formulary (NF), the legal compendia of drug standards. Maintains
a continuous current consensus of appropriate drug use information
for health professionals and patients, published as USP Dispensing
Information (DI).

**Standardization
Activities**

Defines articles (i.e., drug substances, drug dosage
forms, inactive ingredients, medical devices, and diagnostic
agents); states standards for dietary supplements, strength,
quality and purity; provides test methods to determine if articles
meet standards; and establishes packaging and labeling
requirements. Establishes authoritative therapeutic information
for health professionals and patients. The elected volunteers of
the Committee of Revision with the aid of Advisory Panels make the
decisions. The employed staff coordinates these activities.

Cooperates with the World Health Organization, the Japanese Pharmacopoeia, the British Pharmacopoeia, and the European Pharmacopoeia. Also cooperates with the Foods Chemicals Codex, National Committee on Clinical Laboratory Standards, American Chemical Society, and ASTM. Publishes, bimonthly, the Pharmacopoeial Forum, which is the drug standards development journal.

Availability Subscriptions to USP 23 - NF 18 and to Pharmacopoeial Forum are available directly, as are USP Reference Standards and USP Dispensing Information in paper, diskettes, and CD-ROMs.

Keywords drugs; medical devices; diagnostic agents; nutrition; pharmaceuticals; pharmacopoeias; chemicals; medicines; medical; drug information; patient drug use information; reference standards;

U.S. PRODUCT DATA ASSOCIATION

Bob Willis, President

P O Box 3310
Gaithersburg, Maryland 20885-3310
(301) 975-4658 FAX: (301) 926-8730
e-mail: uspro@scra.org

Founded: 1992 Standard Staff: 4

Type of Organization Standards Developer

Standards Development The IGES/PDES Organization (IPO) is currently developing two standards: Initial Graphics Exchange Specification (IGES), and Product Data Exchange using STEP, the adoption of the International Standard for the Exchange of Product Model Data (STEP).

Standards Designation Both the IGES and PDES standards are designated ANSI/US PRO/IPO-xxx.

Certification No certification, qualification, or accreditation programs.

Secretariats U.S. Tag to ISO TC 184/SC 4; ISO 13584, Parts Library; Manufacturing Management Data (MANDATE) standards.

Scope US PRO is the standards development organization for product data exchange technology in the United States, working on behalf of industry. As a nonprofit organization, it provides management and strategic direction for vendor and user organizations engaged in research, development, implementation, and testing of standards and specifications for the exchange and sharing of product information.

Standardization Activities US PRO's ANSI-accredited organization which develop standards is the IGES/PDES Organization. The standards activities are managed through separate but coordinated projects: Initial Graphics Exchange Specification (IGES); Product Data Exchange using STEP (PDES); and the Testing projects.

Availability Sold directly and through ANSI.

Keywords IGES; PDES; STEP; MANDATE; CAD/CAM data; digital product data; drawings; geometric models; computer graphics;

U.S. TENNIS COURT AND TRACK BUILDERS ASSOCIATION

Carol T. Shaner, CAE, Executive Vice President

720 Light Street
 Baltimore, Maryland 21230
 (410) 752-3500 FAX: (410) 752-8295

Founded: 1965 Standards Staff: 2

Type of Organization Trade Association
 Standards Developer

Certification The association has developed a voluntary Builder Certification Program. To become a certified builder, a member must pass a written examination that demonstrates a high level of knowledge of tennis court construction.

Scope Represents tennis court and track builders in the United States and internationally. Members include builders of tennis courts, game courts, and running tracks; manufacturers of court and track surface materials, fencing, lighting systems, and court accessories; and professionals involved in the tennis and track industries.

Standardization Activities Developed Tennis Court and Running Track Guide specifications. Maintains technical committees to draft and update specifications. Also publishes a Maintenance and Repair Specification Guide for tennis courts and Lighting and Fencing Specifications.

The latest publications program includes a series of technical data bulletins on tennis court dimensions (with metric equivalents), windscreens, and site investigation for tennis courts and tracks. The series also includes site preparation, earthwork drainage, base/court construction, guidelines for reconditioning fast-dry tennis courts, tennis court orientation,

and soil sterilization. It also covers color finish systems for tennis courts and resurfacing of asphalt courts. A track data series has also been initiated. The first bulletin covers the conversion of 440 yard tracks to 400 meters. Publishes a 400 meter even track markings layout in cooperation with the National Federation of State High Schools Association.

Participates in liaison committees with the U.S. Tennis Association, National Tennis Association, National Sporting Goods Association, Illuminating Engineers Society, National Federation of State High Schools Association, and the U.S. Track & Field Federation.

Keywords tennis courts; game courts; running tracks; sports;

USA RICE FEDERATION

David Graves, President

4301 N. Fairfax Drive
Suite 305
Arlington, Virginia 22203
(703) 351-8161

FAX: (703) 351-8162

Founded: 1994

Standards Staff: 3

**Type of
Organization**

Trade Association
Standards Developer

Scope

A national, nonprofit association. Charter members: Rice Millers' Association, USA Rice Council, U.S. Rice Producers' Group. Collects and compiles statistics; acts as a liaison between industry and government; arbitrates disputes; and assists in establishment of standards. Generally promotes rice research, production, milling and marketing.

**Standardisation
Activities**

Establishes standard contract term and conditions for trade in rice and rice products. Adapts and uses grade and quality standards of the U.S. Department of Agriculture.

Keywords rice; grain; rice milling; agriculture; food;

VACUUM CLEANER MANUFACTURERS ASSOCIATION

Clifford J. Wood, Executive Vice President

P.O. Box 2642
North Canton, Ohio 44720
(216) 499-5998 FAX: (216) 499-5292

Founded: 1913

Type of Organization Trade Association
Works through other organizations to develop standards

Scope Formed to promote the common business interests of vacuum cleaner manufacturers. Services include government affairs, industry statistics, engineering/technical and long range planning.

Standardization Activities Individual member companies of the association, along with general interest representatives, develop United States vacuum cleaner standards through the ASTM F-11 Vacuum Cleaner Committee. Individual member companies also work with the Canadian Standards Association. Maintains a representative on the vacuum cleaner technical committee of the International Electrotechnical Committee involved in the development of international standards.

Keywords vacuum cleaners; floor care; appliances; consumer products;

VALVE MANUFACTURERS ASSOCIATION OF AMERICA

J. Stephen Larkin, President

1050 17th Street, NW, Suite 701
Washington, DC 20036
(202) 331-8105 FAX: (202)296-0378

Founded: 1938

Type of Organization Trade Association
Works through other organizations to develop standards

Representation Members active in MSSVFI, API, AWWA, SME, ISA, NACE, ANSI, and ISO

Scope Represents the flow control industry. Members comprise 85 percent of United States production of industrial valves and actuators used in oil and gas, power, chemical, construction, water, and process industries.

Standardization Activities Although not a standards making body, VMA is a strong advocate of United States and international standards. Members of the industry are active in a variety of standards activities. VMA is represented on ASME B-16, ISO/TC 153, AWWA C504, and develops standards policy through its Technical Committee and Product Committees.

Keywords valves; actuators; flow control; industrial equipment;

VARIABLE RESISTIVE COMPONENTS INSTITUTE

Stan J. Kukawka, Executive Director

P.O. Box 1070
 Vista, California 92083
 (619) 727-3011 FAX: (619) 727-6555

Founded: 1960 Standards Staff: 1

Type of Organization Trade Association
 Standards Developer

Standards Development Standards developer since 1960.
 35 member companies participating in standards activities.
 5 active standards.
 Draft standards available to VRCI members and applicable organizations.

Standards Designation VRCI and ANSI prefixes.

Certification No certification, qualification, or accreditation programs.

Scope An international trade association representing manufacturers and users of variable resistive devices such as precision potentiometers, trimmers, and panel potentiometers.

Standardization Activities Has made significant contributions to the field of standardization and the improvement of quality of variable voltage or resistive devices used in consumer, industrial, and military type applications. Standards cover wirewound and non-wirewound precision, trimming, and industrial potentiometers, potentiometer mounted switches, and surface mount trimming potentiometers.

Availability Distributed directly and through ANSI.
Keywords potentiometers; resistive devices; electronic components;
trimmers;

VINYL SIDING INSTITUTE
and
VINYL WINDOW AND DOOR INSTITUTE
See **SOCIETY OF THE PLASTICS INDUSTRY**

VMEBUS INTERNATIONAL TRADE ASSOCIATION

Ray Alderman, Executive Director
7825 E. Galding Drive
Suite 104
Scottsdale, Arizona 85260-3415
(602) 951-8866 FAX: (602) 951-0720
Founded: 1984 Standards Staff: 6

Type of Organization Trade Association
Standards Developer
Scope Represents users and producers of Versatile Model
Europe bus (VMEbus) computer systems.
Standards Activities Develops standards in VMEbus and other related open bus
technologies through the VITA Standards Organization (VSO).
Accredited by ANSI as a Canvass Ballot Sponsor since June 1993.
Availability Distributed directly.
Keywords VME; VME64; VMEbus; backplane; bus; microprocessor;

WATER POLLUTION CONTROL FEDERATION

Quincalee Brown, Ph.D., CAE, Director
601 Wythe Street
Alexandria, Virginia 22314-1994
(703) 604-2400 FAX: (703) 684-2492
Founded: 1928 Standards Staff: 2

Type of Organization Technical Professional Society
Works through other organizations to develop standards

Scope Federation of 74 state, regional, and foreign associations and technical societies. Advances fundamental and practical knowledge of the water environment with emphasis on the technology, design, construction, operation, and management of water quality control systems and facilities. Seeks to disseminate technical knowledge and information through publications and conferences; promote good public information and sound regulations aimed toward proper water quality improvements; and improve the status of those working in this field.

Standardization Activities In cooperation with the American Public Health Association and the American Water Works Association, produces Standard Methods for the Examination of Water and Wastewater. Develops and publishes education, training, design and operation and maintenance materials on: wastewater collection; wastewater treatment; sampling and testing; safety; hazardous waste; microbiology; disinfection; wetlands; air pollution; industrial wastes; financing; solids processing and handling regulations.

Keywords environment; wastewater; pollution; water pollution; industrial wastes; hazardous wastes; air pollution; solid; safety;

WATER QUALITY ASSOCIATION

Joseph F. Harrison, P.E., Technical Director

4151 Naperville Road
 Lisle, Illinois 60532
 (708) 505-0160 FAX: (708) 505-9637

Founded: 1948 Standards Staff: 4

Type of Organization Trade Association
 Standards Developer

Standards Designation S-100 S-300.
 S-200 S-400.

Certification Certifies water softeners, filters, reverse osmosis systems, and water distillers complying with Association standards. Sponsors voluntary certification programs for water treatment specialists and water treatment equipment installers.

Scope A trade association of water conditioning equipment manufacturers and suppliers to the water conditioning industry. Conducts a national public relations program, and serves as the industry's liaison with the public, private, and government sectors. Fosters the further development of equipment, products, and services in the industry.

**Standardization
Activities**

Developed two equipment standards, S-100 for Household, Commercial and Portable Exchange Water Softeners, S-200 for Household and Commercial Water Filters, S-300 for Reverse Osmosis Drinking Water Systems and S-400 for Distillation Drinking Water Systems. A testing program for all standards is conducted by an independent testing laboratory, and certification is made through the association following laboratory validation. These standards have national application; and the voluntary testing program is open to manufacturers of water softeners water filters, reverse osmosis systems and distillation systems. In addition to intra-industry promotion of the use of the equipment validation program, the association uses its public relations channels to inform consumers of the integrity of certified equipment. S-100, S-200, S-300 and S-400 have been developed through consultation with the National Institute of Standards and Technology, U.S. Department of Commerce; Federal Housing Administration; and other government agencies, as well as quasi-public and private organizations concerned with equipment standards. The association is currently harmonizing the standards for drinking water treatment units with the NSF international.

Availability

Distributed directly.

Formerly

Water Conditioning Foundation (1974)

Keywords

consumer products; drinking water; industrial equipment; water quality; water treatment; environment; plumbing; public health; sanitation;

WATER SYSTEMS COUNCIL

Charles G. Stolberg, Executive Director

800 Roosevelt Road
Building C, Suite 20
Glen Ellyn, Illinois 60137
(708) 545-9415 FAX: (708) 790-3095

Founded: 1932 Standards Staff: 1

**Type of
Organization**

Technical Society
Standards Developer

Standards Development 6 active standards.

Scope Represents and serves leading manufacturers of domestic and farm water systems equipment.

Standardisation Activities Develops Testing and Rating Standards, which are established in the public interest and are designed to supply the purchaser and user of automatic, electric water systems with accurate performance data and to assist in the determination of proper application and selection of this equipment. The standards cover shallow well water system pumps, deep well water system pumps, deep well submersible pump motor standards, and hydropneumatic tank volume standards.

Availability Distributed directly.

Formerly National Association of Domestic and Farm Pump Manufacturers

Keywords pumps; motors; water systems; wells; building;

WEST COAST LUMBER INSPECTION BUREAU

Bradley E. Shelley, Executive Vice President
 P.O. Box 23145
 Portland, Oregon 97281
 (503) 639-0651 FAX: (503) 684-8928
 Founded: 1911 Standards Staff: 2

Type of Organization Trade Association
Standards Developer

Standards Development Develops lumber grading rules.
Drafts not available for review.

Standards Designation West Coast Lumber - Standard Grading Rules, No. 17.

Certification Provides official grade stamps to mark lumber conforming to West Coast Grading Rules.

Scope An industry owned, nonprofit corporation that provides lumber quality control services at its approximate cost. Serves members throughout western United States, with additional membership in several other states. Services available to any producer, user, distributor, or dealer handling West Coast lumber products. Maintains uniform standards of lumber grading and manufacture, promotes the use of grade stamped lumber as an assurance to the

buyer, seller, and consumer that the interests of each are fully protected, and assists in the efficient use of West Coast lumber products.

**Standardization
Activities**

One of the three major lumber grading rules writing agencies in the United States, in addition to the Western Wood Products Association and Southern Pine Inspection Bureau. Responsible for the principal part of all the quality control programs for softwood lumber production in the United States. Supervises or grades three and one-half to five billion feet of lumber per year.

Bureau activities include the publication, and distribution of West Coast Grading Rules, supervision of the grading manufacturing practices of subscriber plants; grade stamping of West Coast lumber with official Bureau stamps; certificate inspection of lumber shipments; reinspection of lumber in dispute at destination; and assistance to specification agencies, buyers and consumers of West Coast products. Participates in ASTM, ASCE, and Department of Commerce Voluntary Product Standard Programs.

Availability

Distributed directly.

Formerly

West Coast Lumbermen's Association

Keywords

wood products; grading rules; inspection; lumber; building;

WESTERN WOOD PRODUCTS ASSOCIATION

Robert H. Hunt, President

Yeon Building
522 SW Fifth Avenue
Portland, Oregon 97204-2122
(503) 224-3930 FAX: (503) 224-3934

Founded: 1964 Standards Staff: 3
(predecessors early 1900)

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since early 1900's.
Prepared under the umbrella of the National Institute of Standards and Technology Voluntary Product Standard PS 20-94 and the American Lumber Standards Committee.

Standards Designation Western Lumber Grading Rules.
Machine Stress-Rated Western Lumber C/QC Procedures 102.86.
Glued Products C/QC Procedures 101.86.
North American Export Standard for MSR Lumber.

Government Adoption All building code writing and purchasing agencies (federal and state and local) accept lumber graded pursuant to WWPA grading rules. Additionally, WWPA rules are accepted world wide.

Certification WWPA and its Western Lumber Grading Rules are approved by the Board of Review of the American Lumber Standard Committee. WWPA provides member companies with grade stamps to mark lumber graded under Association rules and supervision. A symbol indicates that the piece is graded under WWPA rules and the provisions of NIST Voluntary Products Standard PS 20-94.

Scope WWPA consists of member companies throughout the 12 contiguous western states. WWPA maintains a lumber grade inspection bureau to assure grading standards on a uniform basis. WWPA provides promotion, advertising, technical, export and statistical services; and promotes forest conservation.

Standardisation Activities Writes rules for Western lumber that conform to the National Institute of Standards and Technology Voluntary Product Standard PS 20-94, American Softwood Lumber Standard. Also writes rules for machine stress-rated lumber and glued lumber products in accordance with PS 20-94. Supervises member company grading procedures and practices through periodic sampling inspections of company graded lumber. Actively involved in writing and reviewing standards approved by the American Society for Testing and Materials (ASTM) and CEN Standards (European Community for Standardization).

Availability Sold directly.

Keywords wood products; lumber; grading rules; inspection; building; machine stress-rated; finger joint;

WIRE REINFORCEMENT INSTITUTE

Roy H. Reiterman, P.E., Technical Director

203 Loudoun Street, SW
Leesburg, Virginia 22075-2718
(703) 779-2339 FAX: (703) 779-2340

Founded: 1930

Type of Organization Trade Association
Works through other organizations to develop standards

Representation ASTM A-1, C-13; and ACI.

Scope An association of producers of welded wire reinforcement, wire reinforcement and wire products for the reinforcement of concrete and other construction materials. Purpose is to advance industry through scientific research, educational activities, engineering, product development, and general construction technology.

Standardization Activities Engineering Practices Committee works through ASTM and ACI to develop specifications for wire and welded wire reinforcement. Makes recommendations to ASTM Committee A-1 on steel and C-13 on concrete pipe.

Keywords reinforcement; concrete; wire fabric; materials; construction;

WOOD MACHINERY MANUFACTURERS OF AMERICA

Kenneth R. Hutton, Executive Vice President

1900 Arch Street
Philadelphia, Pennsylvania 19103-1498
(215) 564-3484 FAX: (215) 963-9785
e-mail: asnhqt@netaxs.comm (type WMA)

Founded: 1899 Standards Staff: 1

Type of Organization Trade Association
Standards Developer

Secretariats American National Standards Committee Q1

Scope Composed of over 140 manufacturers of machinery and equipment used in the production of lumber, veneer, millwork, and other wood products, but not including hand portable tools and equipment. Serves the industry by providing a forum to address technical and business issues and improve markets for United States made machinery.

Standardization Activities Develops standards that enhance the safety and operability of woodworking machinery. Current publications include the widely recognized Noise Test Code and the Cutting Tool Safety Guidelines. Resources have been applied through ANSI to develop and maintain the voluntary consensus standard Safety Requirements for Woodworking Machinery, ANSI Q1.1, which defines standards for safe installation, operation, and maintenance of woodworking machinery and accessory equipment. Member of Capital Goods Standards Coalition involving U.S. companies in development of international safety standards for machinery.

Availability Distributed directly.
Formerly Woodworking Machinery Manufacturers of America
Keywords woodworking machinery; noise; safety;

WOOD MOULDING AND MILLWORK PRODUCERS ASSOCIATION

Bob Weiglein, Executive Vice President

P.O. Box 25278
1730 Southwest Skyline
Portland, Oregon 97225
(503) 292-9288 FAX: (503) 292-3490

Founded: 1963 Standards Staff: 2

Type of Organization

Trade Association
Standards Developer

Standards Development

7 active standards.
None processed through ANSI.

Standards Designation

WM prefix.

Scope

Composed of manufacturers of wood moulding and millwork. Provides promotion, standardization, and marketing information services.

Standardization Activities

Standards are initiated through a standing committee administered by the association staff. Available standards include the WM/Series Moulding Patterns and catalog of accurate, full scale renderings of the most popular wood moulding profiles used nationwide. This may be used as a standard basis for all United States moulding producers. Included in the current catalog are grading rules for standard mouldings and finger joint and priming standards.

Other available standards include: Industry Standard WM 1-79, Wood Interior Door Jambs and Frames; WM 2-82, Vinyl Wrapped Interior Moulding and Millwork Products standard; WM 3-79, Exterior Wood Door Frames; WM 4-85, Wood Moulding Requirements; WM 5-81, Standard Certified Non-Structural Laminated or Finger Jointed Wood; and WM 8-89, Industry Standard 20-Minute Fire-Rated Wood Door Frames.

Availability Distributed directly and through members.

Keywords wood products; moulding; millwork; grading rules; lumber; building;

WOODWORK INSTITUTE OF CALIFORNIA

Stanley R. Gustafson, C.E.O., Secretary

P.O. Box 980247
3164 Industrial Blvd.
West Sacramento, California 95798-0247
(916) 372-9943 FAX: (916) 372-9950

Founded: 1951 Standards Staff: 6

Type of Organization Trade Association
Standards Developer

Certification The W.I.C. has established a Certification Licensing Procedure available to firms in California, Nevada and Oregon.

Scope A regional trade association in California, Nevada and Oregon of independent and competing producers of millwork and allied products, whose purpose is the development and dissemination of information relative to uses, advantages, and utility of wood products.

Standardization Activities Standards have been developed for materials and methods of fabrication for all types of architectural woodwork in California by the Woodwork Institute since 1951. The standards are developed by a Technical Committee and approved by the Board of Directors. Standards designation is the Manual of Millwork, M/M. Several governmental agencies have adopted the Woodwork Institute's Standards.

Availability Distributed directly.

Keywords wood products; millwork; building; architectural; certified compliance;

1.2 OTHER ORGANIZATIONS DEVELOPING INFORMAL STANDARDS

Until recently it was fairly easy to identify private-sector standards developers. Their formal, *de jure* standards are developed using processes which are open, and which apply the principles of due process to achieve decisions through consensus. Procedures for assuring openness enable various interests to not only identify organizations which might be developing standards that could affect them, but to communicate with the standards developers and to receive notices of meetings, agendas, and draft standards. In recent years, however, many new nongovernment standards developers have emerged which do not follow traditional standards developing procedures. For whatever reasons, often expediency, these standards developers ignore or short cut the traditional procedures. The lack of openness makes it very difficult to identify the organizations which are developing standards in this manner, and, even when an *ad hoc* group or consortium is identified, it is difficult to communicate with an organization that has no formal structure or fixed secretariat.

A standard is not an end in itself -- it is an intermediary and a medium for communications. Organizations want to buy products and services, not standards. User demands drive markets and the markets should drive the standards, but standards have not kept pace with the markets in telecommunications, information technology, and other rapidly developing fields. Technologies with market lives measured in months cannot wait years for formal standards to emerge from traditional processes. The traditional developers recognize the need to provide more timely standards, but must balance that need with their obligation to maintain the right to due process by all materially affected interests. Consortia and *ad hoc* groups are more focused on achieving near-term results, and their standards are developed without heavy emphasis on formal due process procedures. In addition, the members of consortia and *ad hoc* groups are relatively homogeneous and single-minded in their goals.

Informal standards can be organized within two general categories -- proprietary and consortia -- and four classifications:

PROPRIETARY

When the products or services of one company become widely accepted as "the standard" within a market the result is a proprietary informal standard. There are two ways that such standards emerge:

1. **Proprietary De Facto Standards.** A company strategically positions its products to expand market share and collect royalties by licensing intellectual property rights. Examples: Adobe Postscript, IBM PC Compatible, and Microsoft Windows.
2. **End-Result De Facto.** Market forces designate one company's product as the standard from among equally effective competitors. Example: VHS video recording.

CONSORTIA

This classification includes standards developed by *ad hoc* groups of suppliers or users, research and development consortia, and patent licensees. These groups work together to develop informal standards or to select those standards that will be given preference within a particular sector or market. Motivations of the sponsors differentiate the two classes of consortia standards:

3. *Strategic De Facto*. Suppliers, and occasionally users, attempt to establish sufficient critical mass to define the standard or standards in a particular field. Examples include Dolby, Notes Consortium, Bellcore, and the Electronic Commerce Acquisition Team.

4. *Ad Hoc Variety Reduction*. Traditionally the application of industrial standardization principles has focused on reducing the number of types, sizes, and kinds of parts, materials, and processes to realize cost savings and improve productivity. In some sectors users complain of an overabundance of standards because standards developers are not sufficiently selective, but publish standards for nearly every product offered in the market. To fully realize the potential of standardization through economies of scale, industry consortia have formed to select and harmonize existing standards for preferred use within their industries. The United States Council for Automotive Research (USCAR) is a major consortium with a Strategic Standardization Board working in this way. Other user consortia recognize that many common practices exist within their sectors which could benefit from industry-wide standardization. Most of these practices are documented as internal company standards. Rather than processing these internal standards through the traditional formal standards development process, they prefer to prepare harmonized standards which are intermediate between company standards and formal consensus standards. The Process Industry Practices (PIP) initiative exemplifies this approach.

The developers of informal standards start out with simplified fast-track procedures, but some find that the traditional due process procedures are necessary to accommodate the needs of their members. Others, upon developing a standard, have no mechanism for maintaining it. Some consortia recognize that acceptance of their proposals could be more widespread if their informal standards received a technical review by experts and assurance that the consortium's standards would be integrated into the existing body of formal standards. For these and other reasons, an increasing number of consortia are acting more like traditional standards developers, while others are affiliating with developers of formal standards. VMEbus and the Consortium for Advanced Manufacturing International are ANSI-accredited. The Document Management Alliance is now a task force within the Association for Information and Image Management. USCAR has a working relationship with the SAE. And as consortia mature, many evolve into full service trade associations -- the same path that some well known standards developers took in years past.

Initiatives to promote the acceptance of proprietary and consortia-developed informal standards are increasing general awareness of the role of standards. These initiatives are often headlined in financial and trade journals. While traditional standards developers complain that groups developing informal standards are interlopers, many traditional developers are reengineering their procedures to be more responsive to special interests. There are no indications, however, that the activities of non-traditional standards developers will decrease. Marketing experts have adopted standards development as one more essential stratagem they can use to attain their objectives.

Numerous developers of informal standards have been identified while compiling this directory. Very few, however, have permanent secretariats and fixed addresses, which made communication difficult. Even when they could be contacted, some were reluctant to provide any substantive information about their standardization activities. More than 80 additional developers of informal standards are listed here. Some include telephone contacts. Users of this directory are encouraged to provide information on these or additional groups to NIST using channels described in Section 1.6 of this directory.

Additional Developers of Informal Standards

Full Name	Short Name or Acronym
ACTS MISA Consortium	ACTS MISA
Association for Font Information Interchange	AFII
Association for Retail Technology Standards	ARTS
Audio Messaging Interfaces Society	AMIS
Banking Systems Vendor Council	BSVC
Capital Goods Standards Coalition	CGSC
CDPD Forum	
COBOL Foundation	
Computer Industry Quality Consortium	CIQC
Coalition of Networked Information	CNI
COde Division Testbed	CODIT
CPI-C Implementers Workshop	CIW
Cross Industry Working Group	XIWT
Customer Support Consortium	CSC
Data Management Interfaces Group	DMIG
Desktop Alliance	DA
Desktop Management Interface	DMI
Desktop Management Task Force	DMTF
Digital Audio Video International Committee	DAVIC
Digital Media Distribution Technical Committee	DMD-TC
Distributed Support Information Systems	DSIS
Electronic Commerce Acquisition Team (703)305-6514	ECAT
Electronic Messaging Association (703)524-5550	EMA
Embedded Systems Software Environment	ESSE
Fiber Channel Association	FCA
Fiber Channel Systems Initiative	FCSI

Financial Services Technology Consortium	FSTC
Food Distribution System Association Dev. Comm.	
Frame Relay Forum (415) 578-6980	FRF
Future Consortium	
Geographic Information System Association	GISA
Global Messaging Group	GMS
Graphics Performance Characterization Committee	GPC
Industry Standards Association	ISA
Infrared Data Association	IrDA
INSTAC - S/W CALS Standardization	INSTAC
Institute for Information Storage Technology	IIST
Intelligent TV Forum	ITVF
Interactive CD-I Author Association	ICDIA Association
International Disk Drive Equipment and Materials Association (408) 720-9380	IDEMA
International Association of Open System Professionals (408) 986-8840	Uni Forum
International Electronic Packaging Society (708) 260-1044	IEPS
International Society of Hybrid Microelectronics (703) 758-1066	ISHM
Management Integration Consortium	MIC
Multimedia CD Consortium	Multimedia CDC
National Industrial Information Infrastructure Protocols	NIIP
National Security Telecommunications Advisory Council	NSTAC
Notes Consortium	
Object Definitions Alliance	ODA
Object Management Group (508) 820-4300	OMG
OM-1 Consortium	OM-1
Open Firmware Working Group	CFWG
Open Geographic Information Systems Consortium	OGISC
Open GL Architecture Review Board	Open GL ARB

The Open Group (617) 621-8700	Successor to:	OSF X/Open.
Open PC Alliance		
Open Software Foundation (617)621-8700		OSF
Optical Forming Industry Association		OFIA
Optical Storage Trade Association		OSTA
Performance Management Working Group		PMWG
Personal Digital Assistants Industry Association		PDAIA
Petrotechnical Open Software Corporation (713)784-1880		POSC
Quarter Inch Cartridge Drive Standards, Inc. (805) 963-3853		QIC
Redundant Arrays of Independent Disks Advisory Board (507) 931-0967		RAID
Reuse Library Interoperability Group		RLIG
Sales Automation Association		SAA
Security and Management Services for Open Networks		SAMSON
Serial Storage Architecture Industry Association		SSA IA
Service Providers Integrated Requirements for Information Technology		SPIRIT
Shared Multimegabit Data Service Interest Group (415) 962-2590		SDMS
Small Computer System Integration Association (507) 931-0967		SCSI Association
SmartCard Forum (813) 286-2339		
Software Quality Association		SQA
Stuart Retail Bank Client Server Consortium		SRBCSC
Symbologic Customer Support Consortium		SCSC
Systems Performance Evaluation Cooperative Forum		SPEC
Telecommunications Information Networking Architecture Consortium		TINA
Text Software Initiative		TSI
Transaction Processing Council		TPC
Unixware Technology Group		UTG

Video Electronics Standards Association (408) 435-0333	VESA
VMRL+ Alliance	
X-Consortium - Industry Carriers Compatibility Forum	X-Consortium

3. FEDERAL GOVERNMENT

3.1 FEDERAL VOLUNTARY STANDARDS POLICY (OMB CIRCULAR A-119)

On October 20, 1993, the Office of Management and Budget (OMB) revised and re-issued Circular A-119, entitled "Federal Participation in the Development and Use of Voluntary Standards."¹ This establishes a policy for all federal executive branch agencies concerning their use of voluntary standards and the participation of federal employees in their development. It sets forth "the policy of the federal government in its procurement and regulatory activities to rely on voluntary standards, both domestic and international, whenever feasible and consistent with law and regulation pursuant to law." Voluntary standards should be adopted and used by federal agencies "in the interests of greater economy and efficiency" and should be given preference over non-mandatory government standards unless use of such voluntary standards would adversely affect performance or cost, reduce competition, or have other significant disadvantages.

Participation by federal agency employees in voluntary standards activities is encouraged when it is "in the public interest and is compatible with agencies missions, authorities, priorities, and budget resources." Such participation should be aimed at contributing to the development of voluntary standards that will eliminate the need to develop and maintain separate government standards.

The Circular requires the coordination of agency participation so that (1) the most effective use is made of agency resources and representatives, and (2) the views expressed by those representatives are in the public interest, and, at minimum, do not conflict with the interests and established views of the agencies. Agencies must establish procedures to ensure that their representatives who participate in voluntary standards activity "will, to the extent possible, ascertain the views of the agency on matters of paramount interest, and will, as a minimum, express views that are not inconsistent or in conflict with established agency views."

The Circular also requires that agencies responsible for developing Government standards review their existing standards at least every five years and cancel those for which adequate and appropriate voluntary standards can be substituted.

The revised Circular provides a policy statement with strengthened administrative guidance to federal agencies on using domestic and international voluntary standards for procurement and regulatory purposes, on further improving participation with private sector organizations to develop such standards and coordinating Executive Branch responsibilities for participation in the development of voluntary standards. Emphasis on improving agency leadership on standards policy issues with agency-wide responsibilities for implementing the Circular are provided with the designation of a senior level agency official to be the "Standards Executive." Provisions for improved agency accountability and coordination, recognition of trade policy objectives, along with WTO Standards Code obligations in the treatment of international standards by federal agencies are provided. The revision also extends coverage to certain standards related national goals, such as metrication, environmental concerns and energy efficiency. Significant changes in agency administration, adoption, utilization and reporting of standards related activities are required to implement the revised Circular. Responsibilities of the Secretary of Commerce are increased in several areas for Executive Branch implementation of the Circular.

¹ Previous version was dated October 26, 1982.

3.2 ROLE OF INTERAGENCY COMMITTEE ON STANDARDS POLICY

The Interagency Committee on Standards Policy (ICSP) was established in 1968 to encourage coordination and liaison among federal agencies on matters relating to standards. In 1982, the Secretary of Commerce reconstituted the ICSP to provide the "interagency consultative mechanism to advise the Secretary and agency heads in implementing the policy" required by OMB Circular A-119, "Federal Participation in the Development and Use of Voluntary Standards." In August 1994, the Secretary of Commerce approved a new Charter for the ICSP. The new Charter reflected the changes in the revised Circular.

The ICSP is currently composed of representatives of the 14 federal cabinet departments, 11 independent federal agencies, three offices in the Executive Office of the President and one legislative branch agency. The National Institute of Standards and Technology (NIST) provides the Chairman and the Secretariat for the ICSP.

Cabinet departments represented on the ICSP include the Departments of: Agriculture; Commerce; Defense; Health and Human Services; Housing and Urban Development; Education; Energy; Interior; Justice; Labor; State; Transportation; Treasury; and Veterans Affairs.

Independent agencies include the: Consumer Product Safety Commission; Environmental Protection Agency; Federal Communications Commission; Federal Emergency Management Agency; Federal Trade Commission; General Services Administration; International Trade Commission; National Aeronautics and Space Administration; National Archives & Records Administration; National Science Foundation; Nuclear Regulatory Commission; Postal Service; Small Business Administration; and the U.S. Agency for International Development.

Those from the Executive Office of the President include: the Office of Management and Budget; the Office of the U.S. Trade Representative; and the Office of Consumer Affairs. The U.S. Government Printing Office is represented from the Legislative Branch.

3.3 FEDERAL GOVERNMENT ORGANIZATIONS

This section describes more than 90 standards related programs of federal departments, agencies, and other organizational elements, most of which are standards developers. There are 78 entries describing these standardization activities. The entries for some agencies (e.g., NIST, FDA) describe a number of different standards related programs, while others (e.g., Department of Agriculture) prefer a separate entry for each program. It should be noted that some federal standards are voluntary, though the majority are mandatory by reason of being referenced in legislation or regulations, or are invoked in contracts as a condition of sale to Government agencies. Many nongovernment standards are mandated in the same way.

Government organizations were asked to cite the means by which their standards are implemented or promulgated. This is usually accomplished by incorporating the standards in applicable Parts of the Code of Federal Regulations (CFR). How the agency usually applies standards is summarized in the paragraph "Application." Authority for an agency's standardization activity is also included, generally a citation of the United States Code (U.S.C.), a Public Law (P.L.), or a Part of the CFR. Most organizations have indicated the extent to which they adopt nongovernment standards and participate in government and private sector standards committees.

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DEPARTMENT OF AGRICULTURE

AGRICULTURAL MARKETING SERVICE

Administrator
Room 3071 South Building
P.O. Box 96456
Washington, DC 20090-6456
(202) 720-5115 FAX: (202) 720-8477

Authority

Agricultural Marketing Service (AMS) carries out standardization activities under the Agricultural Marketing Act of 1946, the Agricultural Marketing Agreement Act of 1937, the U.S. Cotton Standards Act of 1923, the Tobacco Inspection Act of 1935, the Federal Seed Act of 1939, and the Egg Products Inspection Act (EPIA).

Implementation

U.S. grade standards for food and farm products are developed by AMS and available from the agency in hard copy or electronic format. Standards are currently in place for cotton, wool, and mohair; tobacco, live animals, turpentine, fresh fruits and vegetables, processed fruits and vegetables, specialty crops, dairy products, meat, poultry, and poultry products.

The purpose of the standards is to identify the degrees of quality in food and farm products and thereby aid in marketing by establishing the usability or value of these products.

The standards, in most cases, are for voluntary use by industry. There are 30 color grade standards and a leaf grade standards for American Upland cotton, and 7 grade standards for American Pima cotton; 14 standards for dairy products; over 150 standards for fresh fruits, vegetables, nuts, and specialty products; over 150 standards for processed fruits and vegetables, honey, and miscellaneous processed products; 11 standards for meat; 15 standards for live animals and 4 standards for wool and mohair; 5 standards for shell eggs; 9 standards for poultry and rabbits; and 16 standards for tobacco and naval stores. Within each standard, there are a number of grades of quality for the product.

AMS sets standards for agricultural and vegetable seed purity, germination, and variety certification.

Under the EPIA, AMS specifies the conditions under which egg products and "restricted eggs" are handled.

Application

Grading, inspection, or classing services, to certify the quality of products according to the U.S. grade standards, are provided by Department of Agriculture (USDA) to producers, packers, wholesalers or others, on request, and usually for a fee to cover the cost of the service.

Businesses that handle shell eggs must register with USDA. They must also destroy eggs that are in any way unsuitable for human consumption. Dirty eggs and eggs with cracked shells but with the contents not leaking, must be shipped only to officially inspected egg products processing plants for proper segregation and processing.

AMS has cooperative agreements with each of the states to regulate interstate commerce for agricultural and vegetable seeds. Under these agreements, the States refer apparent violations of the Federal Seed Act interstate provisions to AMS for verification and appropriate action. In addition, AMS cooperates with states that conduct a voluntary seed certification program.

**Qualification,
Certification,
or Calibration**

Services to certify the quality of products according to the U.S. grade standards are provided for a fee to cover the cost of the service. The Tobacco Inspection Act requires mandatory inspection of tobacco sold at auction in designated auction markets based on official grades, after a referendum in which two-thirds of the growers supplying an auction market vote approval. Tobacco may also be inspected on a voluntary, fee-for-service basis.

**Committee
Activity**

AMS officials participate in committees of trade, technical, and academic organizations -- both national and international -- related to AMS commodities and functions as appropriate.

**Standardization
Activities**

Standardization specialists in each commodity area develop new U.S. grade standards and revise current standards as necessary to promote orderly marketing. Market surveys and other studies are conducted, and proposed standards and revisions are published for public comment before implementation. Specialists also manage the development and coordination of federal food specifications.

Availability

Information on the AMS activities described here is available from the AMS, Information Staff, P.O. Box 96456, Room 3510-S, Washington, DC 20090-6456.

Keywords

food; farm products; agriculture; grading; seed testing; cotton classing; U.S. grade standards; egg products inspection;

DEPARTMENT OF AGRICULTURE

FOOD SAFETY AND INSPECTION SERVICE

Office of the Administrator
332-E Administration Building
Washington, DC 20250
(202) 447-9113

Authority	<p>(1) 21 U.S.C. 601-695, March 4, 1907, the Federal Meat Inspection Act, as amended in 1957, to authorize the examination of animals and meat products used in interstate or foreign commerce, and inspection of slaughter and packing establishments.</p> <p>(2) 21 U.S.C. 451-469, August 28, 1957, the Poultry Products Inspection Act, as amended in 1968, to provide for the compulsory inspection of poultry and poultry products at slaughter and processing plants.</p> <p>(3) 7 U.S.C. 1901-1906, the Humane Slaughter Act, to require humane methods of slaughter in federally inspected plants.</p>
Implementation	<p>9 CFR, III-A and C, Parts 301-335 and 381, Mandatory Meat Inspection and Mandatory Poultry Products Inspection.</p>
Application	<p>Mandatory continuous on-site inspection of domestic meat and poultry. Periodic reviews of foreign country inspection systems eligible to export meat and poultry to the United States.</p>
Qualification, Certification, or Calibration	<p>Standards have been developed to cover the ingredients, methods of processing, and labeling of meat and poultry products; the materials and design of plant facilities and equipment; inspection methods; and chemical compounds permitted in the formulation, packaging or processing of meat and poultry products.</p> <p>In FY 1988, 154 570 labels were approved; 3783 plant blueprints were reviewed; 3861 equipment drawings were reviewed; 11 OSI packaging materials and compounds were reviewed; and the inspection systems of 29 countries that export products to the United States were reviewed.</p>
Committee Activity	<p>Standards are developed by appropriate staffs within the program in consultation with the National Meat and Poultry Inspection Advisory Committee.</p>
Standardization Activities	<p>The Food Safety and Inspection Service (FSIS), Department of Agriculture (USDA), administers a comprehensive inspection system to ensure that meat and poultry is safe,</p>

wholesome, and accurately labeled. Inspection begins with review of a slaughtering or processing plant's plans for facilities, equipment, and procedures to assure that the plant will have a safe and sanitary operation. Animals are inspected both before and after slaughter. Veterinary supervisors monitor the procedures and work with the inspectors to assure uniformity in the inspection process and to provide expertise in detecting animal diseases. Inspection also includes examination for drug and chemical residues, and inspectors regularly take tissue samples from slaughtered animals and send them to FSIS laboratories. FSIS reviews the procedures, recipes, and labels used to manufacture processed meat and poultry products to assure they will be safe to eat and accurately labeled.

More than 7600 inspectors and veterinarians oversee inspection in 6910 plants nationwide. Scientific testing to support the inspection program is carried out in three field laboratories, augmented by certified state and private laboratories. FSIS compliance officers make over 56 000 reviews annually of approximately 10 000 meat and poultry product handlers. FSIS regularly reviews the inspection systems operated by foreign countries to ensure they enforce requirements at least equal to those of the U.S. system. Imported products are re-inspected on a sample basis at the port-of entry.

Availability Publications sold by Government Printing Office

Keywords inspection; meat; label; review; food; poultry; import;

DEPARTMENT OF AGRICULTURE

FOREIGN AGRICULTURAL SERVICE

Office of the Assistant Administrator
International Trade Policy
14th and Independence Avenue, SW
Washington, DC 20250
(202) 447-6887

Authority 19 U.S.C. 2542 Trade Agreements Act of 1979-Title IV-Technical Barriers to Trade (Standards) Subtitle B-Functions of Federal Agencies, Sec. 412. Establishment and Operation of Technical Offices.

Implementation 7 CFR, Part 2 & E.O. 12118, Sec. 1-103. Final rule published in the Federal Register Vol. 45, No. 242, December 15, 1980-page 82153.

Committee Activity The Foreign Agricultural Service (FAS), Department of Agriculture (USDA), Technical Office participates in two intra-agricultural committees, the National Agricultural Pesticide Impact Assessment Program (NAPIAP), which is a policy committee, and Technical Advisory Group (TAG), which is an advisory committee to NAPIAP. In addition, the Technical Office is represented on the inter- governmental agency Trade Policy Staff Committee (TPSC) - Subcommittee on Standards. The Technical Office is also involved with two nongovernmental committees, the National Agricultural Chemicals Association (NACA) - International Committee and the Association of Official Analytical Chemists (AOAC) committee on laboratory accreditation.

Standardization Activities Participated in the development of the World Trade Organization (WTO) Agreement on Technical Barriers to Trade (Standards Code) and currently participates in twice-yearly Standards Code meetings in Geneva. Receives, through the WTO Secretariat and U.S. diplomatic posts in foreign capitals, notifications of proposed foreign mandatory standards and their requirements concerning agricultural products. Publishes proposed standards in Export Briefs (a weekly trade paper published by FAS) and also notifies them in Agnet (a computerized agricultural reporting system of the University of Nebraska). Comments, when appropriate, to other governments, signatories to the Code, on their proposed mandatory standards and related tests or certification systems when their proposals are seen as potential barriers to trade. Assists in representations to foreign governments on standards-related trade policy activities. Provides information to U.S. exporters on existing standards in foreign countries. Provides advice to state and local governments on foreign trade aspects of their activities.

In accordance with provisions of the Trade Agreements Act, 19 committees have been established: ten Agricultural Policy Advisory Committees, and nine Agricultural Technical Advisory Committees for Trade. These committees address trade issues in the areas of cotton, dairy, fruits and vegetables, grain and feed, livestock and products, oilseeds and products, poultry and eggs, sweeteners and tropical products, and tobacco and provide advice to Secretary of Agriculture and U.S. Trade Representative on standards-related trade policy activities of the United States.

Keywords WTO; Standards Code; inquiry point; international trade; business; food; agriculture;

DEPARTMENT OF AGRICULTURE

FOREST SERVICE

P.O. Box 96090,
Washington, DC 20090
(703) 453-9400

Implementation The United States Department of Agriculture Forest Service (USDA/FS) prepares standards for internal use; it does not promulgate standards for general use and prefers to reference existing voluntary standards.

Application Application is usually decided by the sponsoring organization. For example, USDA/FS technical input on the strength of wood members was used by ladder manufacturers and was published by the American National Standards Institute and the National Safety Council. OSHA and CPSC adopt all or parts of these standards.

Committee Activity USDA/FS technical experts participate in organizations including: ALSC, ASTM, AASHTO, ANSI, NFPA, HUD (FHA), FmHA, etc. They participate as technical authorities and represent the general interest category rather than producer or user.

Standardization Activities USDA/FS technical experts participate in standards activities as individuals, and occasionally, when required, pay membership dues themselves.

Availability Standards are obtainable through the sponsoring organization (e.g., ASTM, ANSI).

Keywords wood; lumber; pulp; paper; glue; lumber grading; strength of wood; wood preservatives; wood adhesives;

DEPARTMENT OF AGRICULTURE

GRAIN INSPECTION, PACKERS AND STOCKYARDS ADMINISTRATION

Scales and Weighing Branch
Room 3414, South Agriculture Building
Washington, DC 20250
(202) 720-3140 FAX: (202) 690-2173

Authority 7 U.S.C. 181-229, Packers and Stockyards Act; 9 CFR 201.71 and 201.72.

Implementation	Subject livestock dealers, market agencies, stockyards, meat packers and poultry dealers are required by regulations promulgated under the authority of the Packers and Stockyards Act to install, maintain, and use scales which conform to the specifications, tolerances, and other technical requirements set out in NIST Handbook 44.
Application	The Scales and Weighing Branch monitors the selection, installation, maintenance, testing and use of livestock, monorail, and vehicle scales operated by subject firms to assure that such devices conform to NIST Handbook 44 requirements. The Branch also participates in the testing of such devices when newly installed and in connection with training and investigative activities.
Adoption of Nongovernment Standards	None
Qualification Certification or Calibration	Scale testing agencies must be competent and must use properly calibrated test weights in sufficient amounts to properly test scales in accordance with requirements set out in NIST Handbook 44.
Committee Activity	The Grain Inspection, Packers and Stockyards Administration has a participating membership on the Technical Committee on National Type Evaluation, Weighing Industry Sector, of the National Conference on Weights and Measures.
Standardization Activities	The Grain Inspection, Packers and Stockyards Administration is an active participant in the National Training Program of the National Conference on Weights and Measures. In that capacity the agency participates in the development of test procedures and instructional material and furnishes instructors to provide training and certification under the National Training Program.
Availability	NIST Handbook 44 is available from the Government Printing Office. Testing and weighing procedure memorandums are available from the Scales and Weighing Branch.
Keywords	testing; weighing; training; livestock; meat; and poultry;

DEPARTMENT OF AGRICULTURE

**GRAIN INSPECTION, PACKERS AND STOCKYARDS
ADMINISTRATION**

Standards and Procedures Branch
Room 1094-South Building
Washington, DC 20250
(202) 720-0219

Authority Grain inspection standardization activities are carried out under the U.S. Grain Standards Act (USGSA), as amended (P.L. 94-582) and under the Agricultural Marketing Act of 1946 (AMA), as amended.

Implementation Standards for grains are promulgated under 7 CFR, Part 810. Standards for rice, dry beans, lentils, and dry peas are promulgated under 7 CFR, Part 868.

Seventeen U.S. Standards are currently in effect. Use of the standards under the USGSA is mandatory for grain, except to Mexico and Canada. Inspections of grains moving in domestic commerce are voluntary. As provided by the AMA, all inspection services (including export) are voluntary on the part of the trade.

Application The amended U.S. Grain Standards Act requires: (1) mandatory inspection and weighing services at export ports by federal or delegated state agency personnel; and (2) permissive inspection and weighing services at domestic locations by designated state and private agency personnel. The USGSA also requires DOA to supervise all official inspection and weighing activities and, on a request basis, federal personnel perform inspection of rice and related commodities, and provide nationwide appeal inspection services.

Qualification, Certification, or Calibration The Standards and Procedures develops and implements grain inspection procedures to ensure uniformity and reliability.

Committee Activity The Administration participates in the following standards related committees:

- FGIS Advisory Committee
- Codex Committee on Cereals, Pulses and Legumes
- International Organization for Standardization
- National Conference on Weights and Measures
- NC-151 Committee
- Rice Millers' Association, Grades Committee
- American Dry Pea and Lentil Association, Grades Committee
- National Dry Bean Council, Grades Committee

- National Grain and Feed Dealers Association, Grades Committee
- PNW Grain Standards and Quality Committee
- Grain Elevator and Processing Society, Grades Committee
- National Sunflower Association, Grades Committee
- American Soybean Association, Grades Committee
- American Farm Bureau Federation, Wheat Advisory Committee
- North American Export Grain Association, Inc., Grades Committee

**Standardization
Activities**

Standardization activities aid orderly marketing of grain, oilseeds, rice, and related commodities. This is accomplished through the development, promulgation, and uniform application of new and revised U.S. standards for grain, oilseeds, rice, dry beans, dry peas, and lentils. Activities include establishment, review, and revision of U.S. Grain Standards to reflect the latest inspection techniques and marketing needs. The agency also evaluates instruments and equipment used in the inspection and weighing process to ensure accuracy. In addition, the agency maintains an international monitoring program which interacts with foreign governments and trade teams to exchange information and to respond to complaints concerning quality and quantity of grain shipments.

Availability

Copies of the standards are available through the Animal and Plant Health Inspection Service Printing and Distribution, and Mail Service Section, Unit 1, Suite 1A01, 4700 River Road, Riverdale, MD 20737, telephone (301) 734-5524

Keywords

grain inspection; grain standards; grain weighing; commodity inspection; grain marketing; agricultural grading; food; agriculture;

DEPARTMENT OF AGRICULTURE

INFORMATION RESOURCES MANAGEMENT

Planning, Review, and Standards Division
Room 447-W Administration Building
Washington, DC 20250-7600
(202) 447-6330

Authority

PL 89-306 and resulting Federal Information Processing Standards (FIPS PUBS); PL 93-579; PL 96-511; Federal Property and Administrative Services Act of 1949, companion letter of August 14, 1972 from the Administrator of GSA delegating federal telecommunications standards development responsibilities to the Executive Agent of the National Communications System and recently confirmed and amplified by Executive Order 12472.

Implementation	The Office of Information Resources Management (OIRM) is responsible in USDA for standards that cover information processing management and operations for office automation, data processing, data administration and telecommunications environments, related data and security. The specifications are promulgated in the Departmental Directives System, in regulations, and in the Departmental standards and mandatory procedures which must be followed. Voluntary federal and departmental procedures and guidelines are to be used unless an alternative specification is superior.
Application	The specifications are used in acquisition documents to control products and services brought into the Department's inventory. They apply to all information processing units, resources, and activities in USDA.
Adoption	The majority of the Departmental standards are incorporated from those specified in the FIPS PUBS of the National Institute for Standards and Technology (NIST). A few are from other standards bodies such as the American National Standards Institute (ANSI).
Qualification, Certification, or Calibration	Certification of computer software is required pursuant to the requirements of Office of Management and Budget Circular A-71. Certification is required of all sensitive systems. Conformance of products to FIPS PUBS is tested in accordance with tests or procedures developed by NIST or OIRM.
Committee Activity	OIRM participates in standardization activities (committees, user workshops, etc.) of the National Institute for Standards and Technology, the United Nations, and the National Communication System.
Standardization Activities	OIRM coordinates the review of draft FIPS PUBS by Agriculture agencies, consolidates comments and works with NIST to ensure that standards meet the Department's requirements. New specifications are adopted automatically if they are federal standards and after review if they are procedures or guidelines. OIRM lends assistance to the agencies in developing interim standards to address areas where no formal federal standard exists.
Keywords	ADP; telecommunications; automation; data management; data administration; computers; information resources management; data processing; standards;

DEPARTMENT OF AGRICULTURE

RURAL UTILITIES SERVICE

Room 4051 South Building
Washington, DC 20250
(202) 720-9540
WWW: http://www.rurdev.usda.gov/agency/rus/html/rus_home.html

Authority 7 U.S.C. 901-950b with amendments through October 1988.

Implementation Through printed bulletins and lists of accepted materials and equipment.

Application Staff of the electric and Telecommunications Divisions work with area offices to maintain and make available to borrowers construction, maintenance, and operating standards and lists of materials accepted as meeting those standards. Various standards making organizations.

Adoption of Nongovernment Standards RUS incorporates new and revised nongovernment standards into RUS's lists.

Qualification, Certification, or Calibration Borrowers must submit work plans to RUS defining the proposed construction. RUS does not become directly involved in bidding and letting contracts to manufacturers, but borrowers have the responsibility of using those on approved list.

Committee Activity RUS sits on appropriate committees with IEEE, ANSI, and others with activities which relate directly to electric and telecommunications borrowers.

Standardization Activities RUS has issued nearly 400 Bulletins detailing requirements for organizing, financing, designing, constructing, and operating electric generation and distribution systems and telephone facilities. Nearly half of these define technical requirements for equipment, materials, design, testing, safety, and maintenance. The remainder include lists of acceptable materials as well as standards for financial and statistical reports, loan agreements, model contracts and related business matters.

Standards and specifications of national standardizing organizations are utilized to the maximum practicable extent. Where they are not adequate or where they do not exist, RUS prepares standards and specifications to be used by its borrowers which construct and operate rural electric and telephone systems. Standards and specifications are also prepared where it appears that such specifications and standards will result in reduced costs,

improved materials and equipment, or the more effective use of engineering services. Standards and guides are also prepared which relate to the management and operation of rural electric and telephone systems.

RUS standards are utilized by 2000 rural electric and telephone systems to which loans have been made in 47 states, The Virgin Islands, Guam, Puerto Rico, Saipan, Tinian, and Rota. The standards are also utilized by other organizations in this country and abroad.

Availability Information on RUS standards and copies of most standards are available upon request to the above address.

Formerly Rural Electrification Administration

Keywords electric power; transmission; distribution; generation; energy; electrical equipment; telephone; communications;

DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

Room 3104, FB 3
Washington, DC 20233
(301) 763-7575

Committee Activity The Bureau of the Census, Department of Commerce (DOC), participates in pertinent standards committees of the following: American Agricultural Economics Association; American National Standards Institute; Office of Management and Budget, Statistical Policy Office, Office of Information and Regulatory Affairs; Department of State, Commission on Cartography; Department of Interior, National Mapping Division, Spatial Data Transfer Standard Technical Review, Board on Geographic Names.

Standardization Activities The Bureau of the Census is active in development of standards and specifications for definition of metropolitan statistical areas, digitizing of geographic information, and statistical economic and geographic definitions.

Keywords cartography; metropolitan statistical areas; economic statistics; digital cartography; digital geographics; data;

DEPARTMENT OF COMMERCE

FEDERAL COORDINATOR FOR METEOROLOGY

8455 Colesville Road
Suite 1500
Silver Spring, Maryland 20910
(301) 427-2002 FAX: (301) 427-2007
e-mail: julian_wright_at_ofcm@smtpgate.ssmc.noaa.gov

Authority (1) Section 304 of the Department of Commerce (DOC) Appropriation Act of 1963.
(2) OMB Circular A-62 dated November 13, 1963 which outlines policies and procedures for the coordination of federal meteorological services.

Implementation Meteorological program standards and guidelines are developed within the federal interdepartmental committee structure for meteorological services and supporting research. The guidelines, standards and plans are approved by the Interdepartmental Committee for Meteorological Services and Supporting Research (ICMSSR) for implementation by agencies.

Application The plans, standards, and guidelines are implemented through procurement specifications, approved interagency plans and procedures, and through cooperative adoption.

Adoption of Nongovernment Standards Extensive use is made of general standards and guidelines provided by NIST (Federal Information Processing Standards), DoD, ANSI, ISO, World Meteorological Organization (WMO). They are refined to meet the special needs for meteorological operations, services, and supporting research.

Committee Activity The ICMSSR and its subsidiary interagency committees and groups are the developers and approvers of meteorological program plans, standards and guidelines. Members of these groups and of the office of the Federal Coordinator for Meteorology maintain liaison directly and indirectly with other federal and non-federal standards bodies, including international organizations, such as WMO.

Availability Office of the Federal Coordinator for Meteorology.

Keywords weather; meteorology; instrumentation; satellites; aviation; space environment; communications; weather reconnaissance; weather radar; solar-terrestrial; data processing;

DEPARTMENT OF COMMERCE

INDUSTRY FUNCTIONAL ADVISORY COMMITTEE ON STANDARDS TRADE POLICY MATTERS (IFAC 2)

Trade Advisory Center
14th Street and Constitution Avenue NW, Room 2015B
Washington, DC 20230
(202) 482-3681 FAX: (202) 482-5939

Authority IFAC 2 is an advisory committee established under the Trade Act of 1974, as amended by the Trade Agreements Act of 1979 and the Omnibus Trade and Competitiveness Act of 1988, and in accordance with the Federal Advisory Committee Act.

Implementation As part of the U.S. Trade Policy Committee structure, IFAC 2 advises the Secretary of Commerce, the U.S. Trade Representative, and other government agencies on the negotiation and implementation of trade policy and agreements in the areas of standards and conformity assessment.

Application IFAC 2 has a membership of 40 individuals from the private sector. Half are users of standards and conformity services and half represent standards developers, and testing or product certification services. The focus of the IFAC 2 is on negotiation and implementation of the Agreement on Technical Barriers to Trade (TBT) of the World Trade Organization (WTO, formerly GATT). IFAC 2 also advises on standards and conformity assessment issues within the North American Free Trade Agreement (NAFTA), Asia-Pacific Economic Cooperation (APEC), the Free Trade Area of the Americas (FTAA), and other trade negotiations.

Adoption of Nongovernment standards While IFAC has no direct role in adoption of standards, IFAC 2 supports and encourages government adoption of nongovernment standards, in accordance with the principles of the WTO TBT Agreement.

Qualification Certification or Calibration These issues are often included with standards provisions of trade agreements on which IFAC provides advice.

Committee Activity As part of the Trade Policy Committee structure, IFAC 2 coordinates and occasionally meets with representatives of the other IFACs and ISACs (Industry Sectoral Advisory Committees).

Keywords technical barriers to trade; TBT; conformity assessment; testing; certification; standards; non-tariff trade barriers; trade; business; WTO; standards code;

DEPARTMENT OF COMMERCE

INTERNATIONAL TRADE ADMINISTRATION

Office of Multilateral Affairs/WTO Affairs Division
14th Street and Constitution Avenue NW., Room 3513
Washington, DC 20230
(202) 482-0603 FAX: (202) 482-5939

Authority Title IV of the Trade Agreements Acts of 1979 (P.L. 96-39), the U.S. legislation which implemented the GATT Agreement on Technical Barriers to Trade (TBT) for the United States and established rules for federal agencies engaged in standards related activities.

Implementation The TBT is implemented in the United States by the Interagency Trade Policy Staff Committee, Subcommittee on Standards. Within the Department of Commerce (DOC), International Trade Administration (ITA) shares responsibility with the National Institute of Standards and Technology (NIST) for TBT implementation. ITA is primarily responsible for standards trade policy matters, while NIST has the lead in TBT-related technical and informational activities.

Application Commerce application of Title IV has centered on three areas: 1) publicity of the TBT's rights and benefits to U.S. exporters, particularly of the TBT's technical information network and notification/comment provisions; 2) raising standards-related trading problems of U.S. business in bilateral negotiations with key trading partners under TBT auspices; and 3) representing U.S. industry's interests in WTO TBT Committee deliberations.

Committee Activity Represents the Commerce Department in the following committees: Committee on Technical Barriers to Trade of the World Trade Organization (WTO); the U.S. Trade Policy Staff Committee, Subcommittee on Standards; and the U.S. Industry Functional Advisory Committee (IFAC 2) on Standards Trade Policy Matters.

Availability Information to assist U.S. companies in taking advantage of the benefits of the WTO Agreement on Technical Barriers to Trade is available from the WTO Affairs Division.

Keywords standards code; technical barriers to trade; non-tariff trade barriers; trade; business; general; WTO; TBT;

DEPARTMENT OF COMMERCE

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY

Computer Systems Laboratory (CSL)
Information Systems Architecture Division
Building 820, Room 562
Gaithersburg, Maryland 20899
(301) 975-2816 FAX: (301) 948-6213
e-mail: barbara.blickenstaff@nist.gov
WWW: <http://www.ncsl.nist.gov>

Author ty Federal Property and Administrative Services Act of 1949, as amended by the Computer Security Act of 1987, Public Law 100.235.

Implementation The Computer Systems Laboratory (CSL) of the National Institute of Standards and Technology performs computer and related telecommunications research, develops standards and guidelines for computer systems, and provides technical assistance and advisory services to Federal Government agencies.

Application CSL's research and standards activities advance the efficient use of computer technology and support the development of off-the-shelf, commercial products for computer system users. The Computer Security Act specifies CSL's role in protecting sensitive information that is processed in federal computer systems, and designates CSL as the lead agency for standards, guidelines, and technology for the security of unclassified, sensitive information throughout the Federal Government.

Committee Activity CSL supports national and international voluntary standards developing organizations, and broad-based industry and user consortia that complement the voluntary standards process. CSL staff members participate in technical committees of organizations accredited by the American National Standards Institute, and other groups to foster the development of standards that will meet federal government requirements for applications portability, for the interoperability of hardware, software and communications systems, for the exchange of information between systems, and for the protection of information from threats of all kinds.

Standardization Activities Standards and guidelines that are developed through government/industry cooperative efforts are issued as Federal Information Processing Standards Publications (FIPS PUBS) to help federal agencies buy off-the-shelf commercial equipment and systems, and to follow accepted good practices in managing information resources.

FIPS PUBS include standards, guidelines, and program information documents for hardware, software, data, and computer systems operations.

Major areas of focus include high-speed network technologies; wireless communication technologies; multimedia and digital video technologies; internetworking technologies; information security; spoken natural language processing; information retrieval; visual image processing; virtual reality; distributed environments and applications; information technologies management; software methods; and information systems policy.

Availability

FIPS PUBS are listed in NIST Publications List 58, which is available from NCSL at the above address. FIPS are available from the National Technical Information Service.

Keywords

Federal Information Processing Standards; computer systems; computer security; information processing; information technology;

DEPARTMENT OF COMMERCE

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY

Electronics and Electrical Engineering Laboratory
Office of Law Enforcement Standards, Bldg. 225, Rm.A323
Gaithersburg, Maryland 20899
(301) 975-2757 FAX: (301) 948-0978
e-mail: higgins@nicf.nist.gov

Authority

- (1) Title 1, Section 402(b) of the Omnibus Crime Control and Safe Streets Act of 1968, P.L. 90-351
- (2) 42 U.S.C. 3701, Justice System Improvement Act of 1979, P.L. 96-157

Implementation

The Office of Law Enforcement Standards (OLEs) formerly the Law Enforcement Standards Laboratory (LESL), develops standards for the National Institute of Justice (NIJ), and the Federal Bureau of Investigation (FBI) at the Department of Justice, and for the National Highway Traffic Safety Administration (NHTSA) at the Department of Transportation.

The standards developed by OLES are performance-oriented insofar as possible. They are not consensus standards, but are subjected to extensive technical and editorial review within NIST, as well as other government agencies, manufacturers, users, and independent experts. The standards are given a final review by the sponsor (NIJ, NHTSA, or the FBI) and are promulgated by them.

The NIJ has elected to publish all OLES-developed standards as voluntary national standards. Criminal Justice agencies are encouraged to use the NIJ standards to achieve cost-effective procurement of equipment through competitive bid. In recent years, under a separate NIJ grant, Aspen Systems Corporation has operated a limited equipment testing program through the National Law Enforcement and Corrections Technology Center (NLECTC), formerly the Technology Assessment Program Information Center (TAPIC). The NLECTC contracts with two independent testing laboratories to conduct tests of equipment in accordance with the NIJ standards. Complete test results are then published by NLECTC in a consumer information report series to assist criminal justice agencies in selecting equipment that is suitable for their needs. Test reports published to date include police body armor, hand-held personal/portable transceivers, handcuffs, riot and crash helmets, narcotic test kits, batteries for hand-held transceivers, 12-Gauge shotguns, 9 mm and 45 caliber revolvers, vehicle tracking devices, body-worn transmitters, and an annual report of police vehicle test results. Subsequent to publication of the initial test report, manufacturers may have their equipment tested to the NIJ standard by either of the two independent testing laboratories, and NLECTC will issue supplemental data sheets for the new products and retest.

In addition to the NLECTC testing program, some manufacturers choose to use the NIJ standards as the benchmark for product design and to certify compliance to the NIJ standards in their equipment specifications.

Prior to 1983, the NHTSA mandated the use of OLES-developed standards for state and local government procurement of evidential breath testers. Commercial products were tested by the U.S. Department of Transportation Systems Center in accordance with OLES-developed standards, and those devices which passed were placed on the NHTSA qualified products list. It is anticipated that all future OLES-developed standards for breath alcohol instruments will be promulgated by NHTSA as voluntary model equipment specifications for use by state and local governments, and not mandated as in the past.

In 1983, the OLES-developed standard for speed measuring radar devices was issued by NHTSA as a voluntary model equipment specification. In that same year, the International Association of Chiefs of Police (IACP) undertook testing of speed measuring radar devices in the same manner as the NIJ equipment testing program and issued a consumer report on the results of those tests.

The standards that are developed by OLES are developed on a schedule consistent with the priorities of the other-agency sponsors and available funds from those agencies. To ensure that the OLES program is relevant to the needs of the law enforcement community, the NIJ has established, through NLECTC, the Law Enforcement and Corrections Technology Advisory Council (LECTAC), which reviews OLES program plans and recommends research and equipment testing priorities, including the mission of NHTSA.

Application

OLES's primary focus is on helping law enforcement and criminal justice agencies to acquire on a cost-effective basis the high quality resources they need to do their jobs. To accomplish its task, OLES: (1) develops methods for testing equipment performance and for examining evidentiary materials; (2) develops standards for equipment and operating procedures; (3) develops standard reference materials; and, (4) performs other scientific and engineering research as required.

The equipment standards that are developed by OLES are based upon laboratory evaluation of commercially available products to devise precise test methods that can be universally applied by any qualified testing laboratories, and to establish minimum performance requirements for each attribute of an item of equipment that is essential to the manner in which it functions. The OLES-developed standards can serve as design criteria for the manufacturers or as the basis for equipment evaluation. The application of the standards, which are highly technical in nature, is augmented through the publication of technical reports and user guides. Individual jurisdictions may use the standards in their own laboratories to test equipment, have equipment tested on their behalf using the standards, or cite the standards in procurement specifications.

Adoption of Nongovernment Standards

To the extent possible, OLES utilizes pre-existing industrial and trade association standards during the development of standards for NIJ and NHTSA, which may be directly cited or adapted to specialized testing methods in the final standard. Nongovernment standards utilized in the OLES program include those of the American Society for Testing and Materials, the American National Standards Institute, the Institute of Electrical and Electronics Engineers, Electronic Industries Association, and the Society of Automotive Engineers, among others as appropriate.

**Qualification,
Certification,
or Calibration**

In those instances when NIJ and NHTSA sponsor the testing of specific items of equipment, OLES assists in the preparation of the request for proposal from testing laboratories and the evaluation of the resulting bids to tentatively select two independent testing laboratories for each item of equipment. Following the award of the two contracts, OLES, NLECTC/IACP, and members of the National Institute of Standards and Technology (NIST) National Voluntary Laboratory Accreditation Program visit the laboratories for an on-site facility investigation and witness the complete testing of one item of equipment.

When the inspection team is satisfied that the laboratory personnel are proficient in testing to the OLES-developed standards, that all test equipment is properly calibrated, maintained and operated, and that appropriate test records are maintained, the NLECTC/IACP classifies the laboratory as a NLECTC/IACP-certified laboratory for that item of equipment. The laboratory is then allowed to proceed with the main-quantity testing. In the event that a laboratory does not demonstrate appropriate testing proficiency or lacks essential facilities during the on-site inspection, the contract is terminated and another laboratory is selected for the testing program. In those instances when the private sector, federal, state or local government agencies wish to apply the OLES-developed standards in their own laboratories, OLES remains available for consultation on the application of the standards. However, certification or accreditation is not provided.

**Committee
Activity**

OLES participates in pertinent committees of the American National Standards Institute, the American Society for Testing and Materials, Electronic Industries Association, and the Institute of Electrical and Electronics Engineers.

**Standardization
Activities**

The areas of research investigated by OLES include clothing, communication systems, emergency equipment, investigative aids, protective equipment, security systems, vehicles, weapons, and analytical techniques and standard reference materials used by the forensic science community. The composition of OLES projects varies depending upon the priorities of the criminal justice community at any given time and, as necessary, draws upon the resources of both EEEL and NIST divisions external to OLES.

The NIJ-sponsored activities are part of an overall Law Enforcement and Corrections Standards and Testing Program that includes both the development of standards and other documents and the actual testing of equipment and publication of the test results. The Communication Systems Program has resulted in the development of standards for nearly all items of such systems -- transceivers, base stations, control heads, digital transmission systems, and tracking devices, to mention a few. The Weapons and Protective Equipment Program has developed standards for revolvers and automatic pistols, body armor, protective helmets, and tear gas devices. Other studies and standards have centered on emergency vehicle warning systems, police clothing, components of intrusion alarm systems, physical security of door and window assemblies, weapons and explosive detectors, arson accelerant detectors, and narcotic test kits.

In addition, OLES has developed reference collections for use by forensic laboratories of automobile paints and synthetic fibers, and standard reference materials for glass comparisons and DNA profiling.

The overall NHTSA program is limited to the three types of speed-measuring devices, i.e., conventional radar units, photoradar and lidar.

OLES provides a complete publication list of documents available from the program upon request. This list is updated periodically as new documents are published.

Availability

National Technical Information Service; U.S. Government Printing Office; National Criminal Justice Reference Service; National Law Enforcement and Corrections Technology Center; and the Office of Law Enforcement Standards.

Keywords

alarm systems; alcohol countermeasures; ammunition; body armor; breathalyzer; bullets; communications; DNA profiling; electrical; electronic; emergency equipment; firearms; fire protection; forensic science; investigative aids; laser radar; law enforcement; lidar; photoradar; police equipment; protective equipment; radar; security systems; speed enforcement; standard reference materials (SRM); surveillance; traffic safety; vehicles; weapons;

DEPARTMENT OF COMMERCE

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY

Technology Services (TS)
Gaithersburg, Maryland 20899
(301) 975-4500 FAX: (202) 975-2183

Authority 31 Stat. 1449 as amended, 64 Stat. 371, 15 U.S.C. 271-278, P.L. 89-306, P.L. 89-755, and P.L. 94-168.

Implementation Voluntary Product Standards (VPS) are developed under Department of Commerce (DOC) procedures (15 CFR, Part 10) current VPS standards pertain to softwood lumber (PS 20-94), wood-based structural use panels (PS 2-92), and construction and industrial plywood (PS 1-95).

Application Voluntary Product Standards are voluntarily used by manufacturers, distributors, purchasers, specifiers, and others in producing, marketing, and specifying products. Some Voluntary Product Standards are referenced in local and state building codes and are used in product certification programs.

Qualification, Certification, or Calibration See program descriptions listed below.

Committee Activity Technology Services (TS) coordinates and monitors the National Institute of Standards and Technology (NIST) activities in standards committees. NIST staff members hold more than 1,172 memberships on 819 standards committees of some 80 organizations (national as well as international) involved in standards activities. NIST staff participate in many standards programs as part of the institute's responsibilities for maintaining and advancing national standards of measurement.

Standardization Activities The TS Office of Standards Services (OSS) monitors the Institute's total involvement in private sector standards activities. OSS is the focal point for coordinating standards activities throughout the Department of Commerce, and assists other agencies in implementing federal standards policy as enunciated in OMB Circular A-119. It operates the Interagency Committee on Standards Policy and uses that committee to implement the provisions of Circular A-119 in a uniform and effective manner throughout all federal executive branch agencies. The office also serves as the principal point of contact between the federal government and the voluntary standards community. NIST staff persons serve on the boards and councils of many voluntary standards organizations, including ANSI, ASTM, ASHRAE, ITI, IEEE, NFPA, and UL, and thereby have the opportunity to influence national standards policy.

There are nine major standards related programs in TS:

- The Laboratory Accreditation Program operates the National Voluntary Laboratory Accreditation Program (NVLAP), which provides a mechanism for nationally recognizing the competence of testing and calibration laboratories based on evaluation of the technical qualifications and ability of such laboratories to perform specific nationally recognized tests methods in such fields as asbestos fibers and electromagnetic telecommunications and/or to conduct calibrations traceable to national standards. Laboratories must meet ISO/IEC Guide 25 requirements for facilities, equipment, personnel, traceability and quality management systems to be accredited under this program. NVLAP provides evaluation and recognition of testing performance, especially in response to Congressional mandates and requirements of other federal agencies, to domestic and foreign laboratories, state and local governments, and commercial interests. The program also represents U.S. interests in the International Laboratory Accreditation Conference (ILAC) and provides the basis for bilateral agreements with other countries for acceptance of test data produced in U.S. laboratories.
- The Global Standards Policy Program provides technical support for the Office of the U.S. Trade Representative and the International Trade Administration in negotiations with trading partners; develops policy and planning for implementing the NAFTA and the Free Trade Area of the Americas, as well as for trade with Russia and the CIS, the European Union, the Middle East, and the Asia-Pacific region; participates in DEVCO and UNECE; conducts economic and socio-political analyses of the likely impact of standards and conformity assessment programs on commerce and trade; and operates the National Voluntary Conformity Assessment Systems Evaluation (NVCASE) program.
- The Technical Standards Activities Program provides a "technical office for non-agricultural products" to investigate problems related to non-tariff trade barriers; manages U.S. representation and participation in the International Organization of Legal Metrology (OIML), an intergovernmental body concerned with the harmonization of national legal requirements pertaining to measurements in commerce, industry, and public health; provides technical support for domestic and international standardization activities and for U.S. standards experts posted abroad. This program is also responsible for administering the Department of Commerce Voluntary Product Standards Procedures (15 CFR Part 10).

- The Standards Information Program is responsible for providing information on 1) U.S. Voluntary standards, 2) domestic and foreign government regulations and specifications, 3) U.S. certification programs, 4) foreign and international standards, and 5) proposed foreign regulations relating to standards and certification programs which might significantly affect trade. The program operates the National Center for Standards and Certification Information (NCSCI) (See Sources of Standards and Information), which serves as the U.S. "inquiry point" for the World Trade Organization (WTO) and the North American Free Trade Agreement (NAFTA), as required by law, and the International Organization for Standardization's (ISO's) Information Network (ISONET). The Center also participates in meetings of national and international information exchange specialists. The standardization activities of all NIST units are summarized in an annual NIST report which provides statistical and narrative information about the participation of NIST staff in standardization activities.

The Standards Training and Support Program manages the placement in key U.S. embassies, missions or standards organizations of technical experts in standards and conformity assessment. These experts provide technical advice and support to commercial and economic staffs in the identification and resolution of trade issues involving technical barriers. The program also conducts standards related training programs for technical experts from Russia and the CIS, the Americas, the Middle East, and other areas important for U.S. trade.

- The Office of Weights and Measures develops recommendations for performance and test requirements for weighing and measuring devices used commercially and develops test methods to be used in evaluating these devices. This office sponsors and provides technical advice for the National Conference on Weights and Measures (a national organization made up of federal, state, and local weights and measures officials and appropriate industry representatives), which promotes uniformity in weights and measures programs through the adoption of model laws, regulations, specifications, and tolerances for weights and measures.

- The Standards Reference Materials (SRM) Program certifies the chemical composition or physical properties of more than 1200 solids, liquids, and gases. Companies use these SRMs to verify the accuracy of analytical or other measurement methods under development or to calibrate established measurement systems to ensure consistently accurate performance of equipment and operators. The SRM program publishes a catalog that lists all available reference materials, as well as other timely information, offers telephone consultations on SRM uses, and organizes seminars to advise industry on SRM applications.
- The Standards Reference Data Program provides well-documented numeric data to scientists and engineers for use in technical problem solving, research, and development. These recommended values are based on data extracted from the world's literature, assessed for reliability, and then evaluated to select the preferred value. To increase the usefulness and accessibility of the data, a series of personal computer databases with interactive programs, search routines, and other calculational and graphical software features have been developed and are available from NIST.
- The Calibration Service Program provides more than 500 different services to ensure that manufacturers and other users of precision instruments achieve measurements of the highest possible quality. These services link a customer's precision equipment or in-house standards to national standards. The services, encompass seven major areas: dimensional measurements; mechanical, including flow, acoustic, and ultrasonic; thermodynamics; optical radiation; ionizing radiation; electromagnetics, including direct current, alternating current, radio frequency, and microwave, and time and frequency. The program also publishes a catalog with a complete listing of available services materials as well as other timely information, offers telephone consultations on the use of services and the importance of traceability to national standards, and makes presentations to industry on these issues.

Availability

Voluntary Product Standards are available from the National Institute of Standards and Technology or the National Technical Information Service. Standard reference materials and standard reference data are available from NIST.

Formerly The National Bureau of Standards, Office of Product Standards Policy and Office of the Associate Director for Industry & Standards.

Keywords standards; standard reference materials; standard reference data; reference materials and data; Voluntary Product Standards; ILAC; OIML; laboratory accreditation; conformity assessment; GATT; standards information; inquiry point; testing; general; trade; technical barriers to trade; calibration; measurement; traceability;

DEPARTMENT OF COMMERCE

NATIONAL MARINE FISHERIES SERVICE

Office of Industry Services, Inspection Services Division
1315 East West Highway, Room 12554
Silver Spring, Maryland 20910
(301) 713-2355 FAX: (301) 713-1081
WWW: <http://kingfish.ssp.nmfs.gov/iss/issue.html>

Authority

- (1) 7 U.S.C. 1621-1627, Agricultural Marketing Act of 1946, to encourage uniformity and consistency in commercial practices.
- (2) 16 U.S.C. 742e, Fish and Wildlife Act of 1956, to promote fair trade standards.
- (3) 84 Stat. 2090, Reorganization Plan No. 4, which transferred the National Seafood Inspection Program from the Department of the Interior to the Department of Commerce.

Implementation 21 voluntary standards are codified as regulations in 50 CFR, Parts 261-267. They establish U.S. Standards for Grades for fish and fishery products.

Application Inspectors certify, at the request of the seafood processor, that the product meets the criteria established in these standards. The inspection is conducted at the processing facility.

Adoption of Nongovernment Standards No nongovernment standards have been adopted.

**Qualification,
Certification,
or Calibration**

To be eligible to use the official Department of Commerce (DOC) grade or identification marks as specified in 50 CFR Part 260.86, the processor must participate in the voluntary National Seafood Inspection Program. The marks may appear on the product label and/or the certificate. The processor pays for participation in the Program. Seafood processors that do not participate in the Program may use the U.S. Standards for Grades as guidelines but must not display the official marks.

**Committee
Activity**

The following committees of the Codex Alimentarius Commission:

- Fish and Fishery Products
- Food Hygiene
- Food Labeling
- Pesticide Residues
- Methods of Analysis and Sampling
- on Residues of Veterinary Drugs in foods
- Food Import and Export Inspection and Certification Systems

**Standardization
Activities**

The National Marine Fisheries Service (NMFS) is actively involved in the preparation of U.S. Standards for Grades for seafood products which establish the criteria for the measure of quality of those seafood products (U.S. Grade A, B, and C). The standards currently pertain to various fresh and frozen seafood products. These standards, the use of which is voluntary, are prepared at the request of the seafood processing industry and are available to all interested parties in this country and abroad.

This agency's participation on the various committees of the Codex Alimentarius Commission, specifically the Committee on Fish and Fishery Products, is critical to ensure that the recommended international standards which establish a minimum standard of quality are reflective of this country's commercial practices.

This agency is also responsible for preparing specifications for seafood purchased for USDA's various feeding programs (school children, elderly, needy, American Indians).

Availability

National Seafood Inspection Laboratory, National Marine Fisheries Service, P.O. Drawer 1207, Pascagoula, Mississippi 39567-0112.

Keywords

fish; fishery products; seafood; quality standards; fish quality; seafood specifications; food safety;

DEPARTMENT OF COMMERCE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

National Environmental Satellite, Data, and Information Service
Data Collection and Direct Broadcast Branch
E/SP21 NOAA/NESDIS
Room 806
5200 Auth Road
Camp Springs, Maryland 20746
(301) 763-8325

Authority 15 U.S.C. 3.3, 49 U.S.C. 1483 provides the Secretary of Commerce with the authority to develop an international basic meteorological network.

Implementation Regulations on the administration and operation of a Geostationary Orbiting Environmental Satellite Data Collection System (GOES-DCS) is codified at 15 CFR, Part 911.

Application The National Oceanic and Atmospheric Administration (NOAA) GOES Data Collection System utilizes geostationary satellites to collect environmental data from remote locations. Standards on UHF transmitters and related equipment are established to ensure system integrity.

Qualification, Certification, or Calibration Manufacturers submit plans for in-plant testing of Data Collection Platform Radio Sets. If the plans are approved, a NOAA representative visits the manufacturer's testing facility and witnesses the tests. If a representative unit meets all of the established standards a type certificate is issued to the manufacturer.

Committee Activity National Environmental Satellite, Data, and Information Service (NESDIS) participates in the Coordinating Group for Geostationary Meteorological Satellites (CGMS) to establish compatible standards for international use. CGMS is sponsored by the World Meteorological Organization (WMO).

Standardization Activities Periodic meetings with industry are conducted to review the adequacy and applicability of the standards. Revisions to the existing standards are proposed in response to: technological developments; cost effectiveness considerations; operational difficulties observed within the GOES-DCS; and the need to clarify and improve measurement techniques.

Availability Four standards for self-timed, random reporting, international and interrogated Data Collection Platform Radio Sets are available from the address above.

Keywords satellites; environment; electronic equipment; data processing; aerospace;

DEPARTMENT OF COMMERCE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

National Weather Service
Sterling Research & Development Center
Sensor Test Section
44210 Weather Service Road
Sterling, Virginia 20165
(703) 471-5302

Authority (1) 15 U.S.C. 311 and 313, the original acts establishing the United States Weather Bureau. (2) 49 U.S.C. 1463 and Title 8, Section 803, of the Federal Aviation Act of 1958.

Implementation Standards for producing weather information are included in the series of the Federal Meteorological Handbooks, Federal Specifications for Meteorological Equipment, and Operational Directives from the National Weather Service.

Application Observers are certified by examination and experience and observatories are certified by periodic on-site inspection. Standards for federal specifications are applied by the purchase orders for the equipment, and Operational Directives are applied by on-site inspection of the affected installation.

Adoption of Nongovernment Standards Excluding those that are produced by intergovernmental agreement within the United Nations, nongovernment generated standards are relatively rare within the field of meteorology. A few such standards produced by organizations such as the American Society for Testing and Materials have been adopted. An effort is now underway to encourage voluntary standards organizations to produce standards for meteorology.

Qualification, Certification, or Calibration Meteorological observatories are certified if they conform to the performance standards detailed in Federal Meteorological Handbooks, and National Weather Service Operational Directives.

Committee Activity The National Weather Service actively participates in the standardization activities of the World Meteorological Organization, the Office of the Federal Coordinator for Meteorological Services and Supporting Research, the American Society for Testing and Materials the International Organization for Standardization, and the Range Commanders Council.

**Standardization
Activities**

The development of standard methods for producing meteorological observations and measurements and the development and use of standard test methods for meteorological equipment are actively pursued by the National Weather Service. Most standards are produced within the government and contained within the Federal Meteorological Handbooks and by cooperation with other governments as published by the World Meteorological Organization in its guide to good practice. Nongovernment voluntary standards development organizations, such as the American Society for Testing and Materials, have been encouraged to develop standards for use in the field of meteorology, but to date very few such standards exist.

Availability

The Federal Meteorological Handbooks are sold by the Government Printing Office. Federal specification for equipment and testing are available through the GSA Specification Unit.

Keywords

meteorology; weather; atmosphere; aviation; climatology; test; environment; instruments;

DEPARTMENT OF COMMERCE

**NATIONAL TELECOMMUNICATIONS AND
INFORMATION ADMINISTRATION**

Institute for Telecommunications Sciences
325 Broadway
Room 3020 Radio Building
Boulder, Colorado 80303-3328
(303) 497-3500 FAX: (303) 497-5993
WWW: <http://www.its.bldrdoc.gov/home.html>

Authority

Executive Order 12046, which established NTIA in 1977

Application

The Institute for Telecommunications Sciences (ITS), the research and engineering arm of the National Telecommunications and Information Administration (NTIA), participates and contributes to both national and international standards activities in radio, telecommunications, data transmission, and processing technologies. ITS staff are particularly involved in developing American National Standards and Federal Telecommunication Standards and providing leadership and participating in the development and promulgation of international telecommunication standards.

Committee Activity ITS participates in the development of voluntary national consensus standards with emphasis on data, voice, and video performance standards, and integrated services digital network (ISDN) standards through the American National Standards Institute (ANSI) committees: Performance and Signal Processing Technical Subcommittee; Services, Architectures, and Signaling Technical Subcommittee; and Systems Engineering, Standards Planning and Program Management Technical Subcommittee. ITS participates in the Federal Telecommunications Standards Committee and Chairs HF Radio Subcommittee. Internationally, ITS members work to develop Recommendations of the International Telecommunications Union's Telecommunication and Radiocommunication Sectors. ITS chairs two U.S. ITU-R Study Groups: Spectrum Utilization and Monitoring. The Institute also chairs a U.S. ITU-T preparatory group: U.S. Study Group B (Switching, Signaling, and ISDN).

Keywords radio; telecommunications; data processing;

DEPARTMENT OF COMMERCE

U.S. PATENT AND TRADEMARK OFFICE

Office of the Deputy Assistant Commissioner for Patent Policy and Projects
Room 910, Crystal Park Building 2
2121 Crystal Drive
Arlington, Virginia 22202
Mailing Address: Washington, DC 20231
(703) 305-8813 FAX: (703) 305-8825
e-mail: uspto.gov.
WWW: <http://www.uspto.gov>

Authority

- (1) 35 U.S.C. 6 authorizes the Commissioner of Patents and Trademarks to "establish regulations, not inconsistent with law."
- (2) 35 U.S.C. Section 9
- (3) 37 CFR 1.52(b)
- (4) 37 CFR 1.84(b)

Implementation Manual of Classification, U.S. Patent and Trademark Office (USPTO), a looseleaf book containing a list of all the classes and subclasses of inventions in the USPTO classification system.

Application This classification is used by the USPTO, and any other user of patent information, to classify and retrieve a patent or patent related document in the U.S. Classification system.

Committee Activity The Patent and Trademark Office participates in pertinent committees of the World Intellectual Property Organization, Geneva, Switzerland.

Standardization Activities Member of Assembly of the Patent Cooperation Treaty in order to provide patent application format and units of weights and measures acceptable in all member countries.

Availability Published in "Title 37, Code of Federal Regulations" and "Manual of Patent Examining Procedure," both available from U.S. Government Printing Office.

Keywords patent applications; paper size; metric system; business; general;

DEPARTMENT OF COMMERCE

U.S. PATENT AND TRADEMARK OFFICE

Office of International Patent Documentation
 Washington, DC 20231
 (703) 557-3756

Implementation Subcommittee H of American National Standards Committee Z39 specializes in patent matters and sets guidance standards therefore.

Application Voluntary adoption

Adoption of Nongovernment Standards Z39 meets with representatives of the U.S. Patent and Trademark Office (USPTO) and other related organizations to discuss and set standards to be used by the USPTO on a voluntary basis.

Committee Activity The USPTO actively participates in Subcommittee H of Z39.

Standardization Activities Z39 Subcommittee H (Patent Standards) gives special consideration to the publishing policies and practices of the USPTO in the development of U.S. standards as a result of the position of the USPTO as the primary publisher of U.S. patent literature. Z39 Subcommittee H addresses the practices of foreign publishers of patent data and those organizations in the United States who repackage and republish foreign patent data.

Availability American National Standards Institute
Keywords patents; patent standards; business;

DEPARTMENT OF COMMERCE

U.S. PATENT AND TRADEMARK OFFICE

Trademark Examining Operation
Office of the Director
2011 Jefferson Davis Highway
Arlington, Virginia 22202
(703) 557-3268

Authority 15 U.S.C. 1112, July 15, 1946, Lanham Act Section 30, gives the Commissioner the authority to establish a system of classification of goods and services.

Implementation 37 CFR 2.85 and Part 6, implement the adoption of the International Schedule of classes for goods and services. Classification is the basis for determining the fee which must be paid per application.

Committee Activity U.S. Patent and Trademark Office (USPTO) is a member of the Committee of Experts which is the acting body established by the Nice Agreement. The Committee of Experts meets periodically to revise the International Classification.

Standardization Activities The classification of specific goods and services is set forth in the Alphabetical List entitled "International Classification of Goods and Services for Purposes of the Registration of Marks Under the Nice Agreement," published by the World Intellectual Property Organization (WIPO). This classification list contains the name of each class and the basic contents of the class. The Alphabetical List also comprises explanatory notes which serve as guidelines for determining the appropriate International Class for a specific product or service.

The primary purpose of the International Alphabetical List is to provide a written source for determining proper identifications and classifications of goods and services. The classification lists consist of:

- (1) a list of classes, together with explanatory notes; and
- (2) an alphabetical list of goods and services with an indication of the class into which each of the goods or services falls.

Availability World Intellectual Property Organization, 34 Chemin des Colombettes, 1211 Geneva 20, Switzerland,
UNIPUB, P.O. Box 433, Murray Hill Station, New York, New York 10016.

Keywords international classification; Nice Agreement; classification list; trademark classification; business; general;

CONGRESS OF THE UNITED STATES

JOINT COMMITTEE ON PRINTING

818 Hart Senate Office Building
Washington, DC 20510-6650
(202) 224-5241

Authority The Joint Committee on Printing (JCP), created by act of August 3, 1846 (9 Stat. 114), is responsible for establishing specification standards for papers used in public printing and binding (44 U.S.C. 509), including Federal Government printing and duplicating procured from the private sector.

Implementation The Government Paper Specification Standards include approximately 100 individual specifications for writing and printing papers, together with testing information, color standards, and acceptance criteria.

Application All the Government Paper Specification Standards must be used by all departments of the federal government and their field activities in the preparation of procurement documents for paper stocks and in specifying paper stocks to be used in printing, binding, copying, and duplicating, unless otherwise authorized by the Joint Committee on Printing.

Standardization Activities Administered by an Advisory Council on Paper Specifications and its Technical Subcommittee, under the chairmanship of the Joint Committee's Staff Director. Participating agencies include U.S. Government Printing Office, General Services Administration, EPA, Treasury, NARA, Federal Environmental Executive and the Department of Defense. Staff participates in relevant activities of ANSI, and the ANSI-accredited CGATS, GCA committees.

Availability U.S. Government Printing Office, Superintendent of Documents (Order Stock Number 952-001-00000-1; List I.D. Number GPS). Also available: Government Paper Samples (Order Stock Number 021-000-00160-1)

Keywords paper; colors; office products; printing;

CONSUMER PRODUCT SAFETY COMMISSION

DIRECTORATE FOR ENGINEERING SCIENCES

Mechanical, Electrical, and Thermal Hazard-Related Standards
for Consumer Products
(301) 504-0504

DIRECTORATE FOR HEALTH SCIENCES

Chemical Hazard-Related Standards for Consumer Products
(301) 504-0957 FAX: (301) 504-0124

4330 East-West Highway
Bethesda, Maryland 20814
e-mail: info@cpsc.gov

Authority Consumer Product Safety Act (15 U.S.C. 2051 et seq.); Federal Hazardous Substances Act (15 U.S.C. 1261 et seq.); Poison Prevention Packaging Act (15 U.S.C. 1471 et seq.); Flammable Fabrics Act (15 U.S.C. 1191 et seq.); and Refrigerator Safety Act (15 U.S.C. 1211 et seq.).

Implementation All standards, regulations and policy issuances are to be found within Title 16, Code of Federal Regulations Chapter II, Commercial Practices, Parts 1000 to end. Information on all Consumer Product Safety Commission (CPSC) mandatory product safety standards is published in the Federal Register in Advance Notices of Proposed Rulemaking, Notices of Proposed Rulemaking, and Final Rules.

Application The Commission enforces all regulations and standards published in 16 CFR Chapter II, Parts 1000 to end. The Directorate for Compliance and Administrative Litigation is the Commission organization responsible for this activity. This Directorate is located at 4330 East-West Highway, Bethesda, Maryland. Telephone requests for information on regulatory standards enforcement may be obtained by calling (301) 492-6400. This Directorate is also responsible for enforcement activities under Section 15 of the Consumer Product Safety Act. Reports of information which reasonably supports the conclusion that a product contains a

defect which could create a substantial product hazard, as required under Section 15 of the Consumer Product Safety Act, should be made by calling (301) 492-6608 with concurrent notification, in writing, to: Division of Corrective Actions, U.S. Consumer Product Safety Commission, Washington, DC 20207.

**Adoption of
Nongovernment
Standards**

Amendments to the Consumer Product Safety Act, the Federal Hazardous Substances Act, and the Flammable Fabrics Act enacted by Congress in 1981 encourage reliance on voluntary standards developed by industry or other nongovernmental organizations to reduce risks of injury whenever possible, Sec. 15 U.S.C. 2058, 15 U.S.C. 1262(f), and 15 U.S.C. 1193(g).

**Qualification,
Certification,
or Calibration**

Product certification is specifically required by Section 14 of the Consumer Product Safety Act (CPSA) (15 U.S.C. 2063). Manufacturers or private labelers must issue certificates stating that their product meets any applicable consumer product safety standard issued under the CPSA. The Commission may also prescribe testing and labeling requirements by regulation under the authority of Section 14 of the CPSA.

**Committee
Activity**

CPSC participates in a variety of nongovernment and government standardization committees. For specific information on committees with which the Commission is working contact either the Directorate of Engineering Sciences or the Directorate for Health Sciences.

**Standardization
Activities**

The U.S. Consumer Product Safety Commission, an independent federal regulatory agency, was officially activated on May 14, 1973, to implement the Consumer Product Safety Act, P.L. 92-573. The Commission's primary goal is to substantially reduce injuries associated with consumer products. The Act granted broad authority to issue and enforce safety standards for more than 10 000 consumer products.

The Act specifically excludes certain products from the Commission's jurisdiction. Among the excluded products are foods, drugs, cosmetics, boats, aircraft, motor vehicles, and pesticides, most of which are regulated by other federal agencies.

Amendments to the Consumer Product Safety Act enacted in 1981 encourage the development of voluntary consumer product safety standards by industry. The Commission may adopt voluntary standards issued by nongovernmental organizations as mandatory standards or issue mandatory requirements independently. The Commission may ban products which present an unreasonable risk of injury if no safety standard is feasible. The Directorate for Engineering Sciences and the Directorate for Health Sciences serve as the focal points for standards development within CPSC.

Availability U.S. Government Printing Office
Keywords consumer products; safety; textiles; general;

DEPARTMENT OF DEFENSE

DEFENSE INFORMATION SYSTEMS AGENCY

Center for Standards
Joint Interoperability and Engineering Organization
10701 Parkridge Blvd.
Reston, Virginia 22091-4398
(703) 487-8338 FAX: (703) 735-3575
e-mail: sweetd@cc.ims.disa.mil
WWW: <http://www.itsi.disa.mil>

Authority Title 10, United States Code, Chapter 8, to plan, develop, and support Command, Control, Communications, Computers, and Intelligence (C4I) that serve the National Command Authority (NCA) under all conditions of peace and war. The JIEO Center for Standards acts for DISA as Executive Agent for coordinating the DOD information Technology (IT) Standards Program.

Implementation The Center for Standards assists the military services and DOD agencies to identify the need for information technology standards (for information, information transfer, information processing) and to ensure that appropriate standards are available that meet DOD's needs. The Center assists the services and agencies in selecting the appropriate standards (i.e., developing the standards profile) for new systems and modernization programs.

Application The goal is to achieve standards based solutions in DOD C4I systems for interoperability, portability, reusability, efficiency, effectiveness and to make optimal use of commercial standards and products.

Adoption of Nongovernment Standards The Center promotes, and participates with DOD representatives, in the development and use of international and national nongovernment standards for implementation in DOD C4I systems, achieving economy of cost and schedule. Standards development occurs in nationally recognized voluntary organizations, industry consortia, and international treaty and bilateral and multilateral organizations. Military standards are developed only if the requirements cannot be satisfied by an existing or planned nongovernment standard. Most military standards published under the IT Standards Program are profiles of (selecting options and features from) nongovernment standards.

**Qualification,
Certification,
or Calibration**

The Center supports DOD evaluation of systems with C4I capabilities for satisfaction of interoperability, compatibility, and integration requirements. Specifically, the Center reviews DOD C4I system life cycle acquisition documentation, and standards profiles, for compliance with DOD standards policy. The Center's recommendations, together with other inputs, notably from the DISA Joint Interoperability Test Command (JITC), are processed by the Joint Chiefs of Staff (J6I) and OASD(C3I) leading to requirements and interoperability certification of DOD C4I systems.

**Committee
Activity**

The Center provides DOD representatives to many national and international standards bodies including ANSI, IEEE, ISO, ITU, standards consortia such as the OSF (Open Software Foundation), and international treaty, multilateral and bilateral standards bodies, such as found in NATO and in various Pacific Rim arrangements.

Availability

On the World Wide Web and from the Defense Printing Service, Philadelphia, PA.

Keywords

standards profiles; information technology; information transfer; information processing; communications; command and control; intelligence; C4I; interoperability; portability; reusability;

DEPARTMENT OF DEFENSE

OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE (ECONOMIC SECURITY)

Standardization Program Division
Suite 1403
5203 Leesburg Pike
Falls Church, Virginia 22041-3466
(703) 681-9340 FAX: (703) 681-7622
WWW: <http://www.acqosd.mil/es/std/stdhome.html>

Authority

Title 10, U.S. Code, Chapter 145, Cataloging and Standardization and implemented by DoD Instruction 50000.2

Implementation

DoD's standardization program implements 27 000 Military Specifications and 1600 Military Standards; it is responsible for 1300 Federal Specifications, 25 Federal Standards and 4200 Commercial Item Descriptions. More than 7400 nongovernment standards have been adopted.

Application Department of Defense (DoD) standardization documents are used as procurement documents for all types of equipment and commodities, as well as documents that provide selection criteria for items, equipment, engineering practices, etc., used in new design.

Adoption of Nongovernment Standards DoD has adopted over 7400 nongovernment standards to be used instead of military documents. These private sector documents were developed by a number of nongovernment standards organization including ASTM, SAE, AIA, UL, and others.

Qualification, Certification, or Calibration DoD has developed over 1000 Qualified Products Lists and Qualified Manufacturers Lists, which describe products or manufacturing processes that have been examined, tested, and approved as meeting the requirements of applicable specifications.

Committee Activity The Department of Defense participates in numerous intergovernmental and nongovernmental committees to share in the development of both policy and acquisition standardization documents.

Standardization Activities The Defense Standardization Program (DSP) is a single, integrated defense-wide program to achieve optimum uniformity among the variety of systems, equipment, materials, engineering practices, operations, and manufacturing processes developed for or used by the DoD. Standards and specifications developed by (or in concert with) nongovernment standards groups are utilized to the maximum extent possible. The adoption of nongovernment standards avoids the preparation of duplicative or overlapping military documents. It is DoD policy to cooperate with the standards organizations operating in other government agencies, as well as, those in the private sector.

Standards and specifications are developed in over 100 offices of the DoD whose addresses are listed in the Standardization Directory, SD-1, which is available from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, Pennsylvania 19111-5094.

Availability Military and federal specifications, standards, and handbooks, commercial item descriptions, and adopted nongovernment standards are listed in the DoD Index of Specifications and Standards. Copies of these documents are available from the DoD Single Stock Point, IHS, Global, and various other private distributors and libraries.

Keywords military equipment; industrial equipment; consumer products; materials; parts; food; clothing; packaging; construction; building; aerospace; medical devices; communications; general; defense;

DEPARTMENT OF ENERGY

BUILDING TECHNOLOGIES

Building Appliance Division
Room 1J-018
Washington, DC 20585
(202) 586-0517

Authority 42 U.S.C. 6291-6309, the Energy Policy and Conservation Act of 1975 (P.L. 94-163), as amended by the National Energy Conservation Policy Act of 1978 (P.L. 95-619), the National Appliance Energy Conservation Act of 1987 (P.L. 100-12) and the National Appliance Energy Conservation Amendments of 1988 (P.L. 100-357), provides for implementation of energy efficiency test procedures and standards for at least 13 categories of major household appliances.

Implementation Test procedures have been established for 13 categories of appliances in 10 CFR Part 430, Subpart B. The 13 categories of appliances are: refrigerators, refrigerator-freezers, and freezers; furnaces; central air conditioners and central air conditioning heat pumps; room air conditioners; water heaters; dishwashers; clothes washers; clothes dryers; direct heating equipment; pool heaters; kitchen ranges and ovens; television sets; and fluorescent lamp ballasts. Standards have been established, by legislation, for 12 of the 13 categories of appliances in 10 CFR Part 430, Subpart C.

Application The established test procedures are required, under regulations issued by the Federal Trade Commission (FTC), to be used by manufacturers in the preparation of labels and other representations concerning the energy efficiency of covered products. In addition, the manufacturers certification of compliance with a standards is to be based on manufacturers testing of covered products in accordance with the applicable test procedure. Selective government test may be performed for enforcement purposes.

Adoption of Nongovernment Standards The established test procedures adopt, by reference, some nongovernment test procedures; including, but not limited to, procedures established by ANSI, ASHRAE, ASTM, and the Association of Home Appliance Manufacturers (AHAM).

Qualification, Certification, or Calibration Consumer product manufacturers are responsible for the application of the established test procedures, although FTC or DOE may perform independent tests to verify manufacturers claims.

Committee Activity The appropriate staff of DOE and The National Institute of Standards and Technology (NIST) participate in several relevant committees of ASHRAE and the Air-Conditioning and Refrigeration Institute (ARI).

Standardization Activities DOE, with the support of the NIST, is active in the preparation, review, and updating of energy efficiency test procedures for all 13 covered appliances. In addition, DOE in accordance with the law, reviews the standards on a regular basis to determine if updates are justified. With respect to the test procedures, every effort is made to utilize private consensus standards, if appropriate. Federal energy efficiency standards preempt state-established energy efficiency standards. States may apply to DOE for exemptions from this rule.

Availability DOE and U.S. Government Printing Office

Keywords energy conservation; energy efficiency; household appliances; buildings; consumer products; energy;

DEPARTMENT OF ENERGY

BUILDING TECHNOLOGIES

Building Division, Office of Codes and Standards
 Room 1J-018
 Washington, DC 20585
 (202) 586-0517

Authority Title III of the Energy Conservation and Production Act, as amended (42 U.D.C. 6831 et seq.) sets forth four major provisions. First, states are required to consider whether to update the energy efficiency provisions of their residential building codes to meet or exceed the Model Energy Code, 1992 and subsequent revisions to such standard that the Secretary makes a determination will improve the energy efficiency of residential buildings. Second, states are required to update provisions of their residential buildings and commercial building codes to meet or exceed the building industry consensus standard 90.1-1989 and

subsequent revisions to such standard that the Secretary makes a determination will improve the energy efficiency of commercial buildings. Third, states are required to certify to the Secretary that they have accomplished the above actions (extensions are provided for). Fourth, technical assistance and incentive funding are to be provided to the states by the Department to implement the above requirements and to promote building energy efficiency through the use of such codes.

Regarding, federal building energy efficiency standards, the Department is to promulgate standards that meet or exceed the Model Energy code, 1992, in the case of residential buildings, or Standard 90.1-1989, in the case of residential buildings, or Standard 90.1-1989, in the case of commercial buildings, and to the extent practicable, use the same format as the appropriate voluntary building energy code. Periodic review and updating is provided for. The existing interim standards are to remain in effect until the new standards become effective. Federal agencies are responsible for implementation and expenditure for construction is dependant on meeting or exceeding the federal standards.

Regarding support for voluntary building energy codes, the Department is required to support the upgrading of the Voluntary building energy codes (such as the Model Energy Code or Standard 90.1) and to participate in the processes for their review and modification.

Implementation

A draft notice of proposed rulemaking has been prepared for federal commercial and multi-family high rise buildings and is expected to be issued in 1996. A draft notice of proposed rulemaking has been prepared for federal residential low rise buildings and is expected to be issued in 1996.

Application

The head of each federal agency and the Architect of the Capitol are required to adopt procedures necessary to ensure that new federal buildings meet or exceed the federal building energy standards. The head of a federal agency may expend federal funds for the construction of a new federal building only if the building meets or exceeds the appropriate federal building energy standards.

**Adoption of
Nongovernment
Standards**

The federal standards reference building industry standards developed by ANSI, ARI, ASTM, ASHRAE, CTI, IES, NEMA, and UL.

**Committee
Activity**

DOE staff participate in several relevant committees of ASHRAE, AIA, and IES.

Standardization Activities DOE staff participate in ASHRAE Standing Standards project Committees 90.1 and 90.2; the CABO Model Energy Committee and One and Two Family Dwelling Code Committee; the Building Officials and Code Administrators International (BOCA) National Mechanical and Building Code Activities; the Southern Building Code Congress International (SBCCI) standard Building Code Committee; the International Conference of Building Officials (ICBO) Uniform Mechanical and Building Code Committees; and the emerging International Code Council (ICC) Committees.

Availability Federal codes and standards indicated above are promulgated in the Code of Federal Regulations published by the Office of the Federal Register, National Archives and Records Administration. They are also available from the Department.

Keywords buildings; energy conservation; energy efficiency; energy;

DEPARTMENT OF ENERGY

DEFENSE PROGRAMS, ASSISTANT SECRETARY

DOE, DP-13.1
Washington, DC 20545
(301) 353-3169

Authority

- (1) The Atomic Energy Act of 1954
- (2) Energy Reorganization Act of 1974
- (3) Department of Energy (DOE) Reorganization Act of 1977

Implementation The implementation of standards activities for Defense Programs is through the policy statement of the Assistant Secretary for Defense Programs (ASDP) dated May 28, 1982, and the individual implementation plans prepared by the DOE field organizations. Responsible program officials also involve the use of standards noted under qualification, certification, or calibration.

Application Standards are developed and used to support technologies and applications unique to DOE particularly in the Department's defense-related processing and production facilities. Current activities include development of standards for qualifying backup power sources prior to their use in DOE facilities, performing accident analysis of an aircraft crash into a DOE hazardous facility, and preparing safety evaluation reports on the review of DOE nonreactor nuclear facility safety analysis reports.

**Standards
Qualification,
or Calibration**

DOE-STD-1003-94, Backup Power Sources for DOE Facilities, is a standard that identifies fundamental criteria, surveillance testing, reporting, and reliability program considerations, which if properly implemented, should improve and maintain capable and reliable backup and emergency power sources (i.e., diesel generators, uninterruptible power supplies, and stationary batteries).

DOE-HDBK-1084-95, DIE Primer on Lead-Acid Storage Batteries, is a handbook that complements the above standard that was prepared and reviewed by the DOE Backup Power Working Group and promulgated by the DOE Office of Environment, Safety and Health. This working group plans to update the handbook in 1996.

Two DOE Specifications for use in purchasing stationary battery systems for use at typical DOE facilities are in a final comment coordination process.

The draft standard for accident analysis of aircraft crashes into DOE hazardous facilities will provide a uniform methodology, input parameter, and major assumptions as well as guidance for consequence calculations and approaches for predicting structural response. This standard will afford the user sufficient information to evaluate and assess the significance of aircraft crash risk on facility safety.

The draft standard entitled Guideline for Review and Approval of Nonreactor Nuclear Facility Safety Analysis Reports will provide the process by which safety analysis reports in DOE should be reviewed and details on the format and content of the safety evaluation report that documents the review and approval process.

**Standardization
Activities**

The DOE Backup Power Working Group meets twice annually to review best practices and lessons learned, discuss related industry standards, attend training and other presentation sessions, and tour representative backup power sources at DOE sites. The knowledge and experience of the group is documented and disseminated in the form of DOE standards, handbooks, and specifications. Membership includes representatives from most DOE site M&Os, some DOE HQ, and some DOE field offices.

Availability

The above referenced standards were developed and are maintained internal to the Department.

Keywords

backup power sources; lead-acid storage batteries; uninterruptible power supplies; stationary batteries; accident analysis; aircraft crash; consequence calculation; structural response; nonreactor nuclear facility; safety analysis report; safety evaluation report;

DEPARTMENT OF ENERGY

ENERGY INFORMATION ADMINISTRATION

Office of Statistical Standards (EI-70)
1000 Independence Avenue, SW
Washington, DC 20585-0670
(202) 426-1068
e-mail: ybishop@eia.doe.gov
WWW: eia.doe.gov

Authority

Both the Federal Energy Administration Act and the Department of Energy Organization Act, which established the Energy Information Administration (EIA) as an independent statistical agency, require that the information collected by the agency be evaluated and assessed internally and that the collection methods used be audited. (See P.L. 93-275 and 95-91).

Implementation

To evaluate the data and procedures used to collect, process and publish the data, performance standards are needed. A standards program has existed since EIA's inception; however, in 1981 it was reorganized, resulting in the adoption of 19 standards and two orders on model documentation and model archiving.

Application

Standards implementation is monitored by the Office of Statistical Standards (OSS) through the various activities of the office, including the forms clearance process, pre-publication reviews, state-of-the-data reports, quality audits, and documentation reviews of data collection and processing systems.

OSS monitors order implementation through reviews of the documentation and model archival packages prior to release, and quality audits.

**Committee
Activity**

OSS participates in pertinent committees of the Office of Management and Budget (OMB), the American Statistical Association, and other statistical organizations.

**Standardization
Activities**

Thirty standards have been developed covering various aspects of data collection, data processing, forecasting, and dissemination. They are divided into the following groups: models interagency, data systems, data collection, and data presentation. Specific standards cover: model acceptances, documentation, and archival; the adoption of Federal Information Processing and OMB standards; standardized codes, abbreviations, and acronyms; contract clauses for data collection and processing; data systems development and documentation; nonresponse handling; respondent contact records; batch entry procedures; edit message handling;

survey performance statistics; publication of energy statistics, revisions and estimates; data accuracy; graphs; nondisclosure; rounding ;freezing data files; and documentation of public use tapes and diskettes.

These mandatory standards are intended to ensure the quality and consistency of EIA's data and models, increase the efficiency and responsiveness to EIA's data users, and avoid duplication of effort.

These standards will be modified and new ones developed as conditions warrant. The primary focus is on ensuring compliance with the existing standards and providing technical assistance to offices requesting it.

Availability Energy Information Administration, Office of Statistical Standards
(address above)

Keywords statistics; data collection; data processing; data documentation; model documentation; data publication; model forecasting; energy; model acceptance, documentation, archival;

DEPARTMENT OF ENERGY

ENVIRONMENT, SAFETY, AND HEALTH

Safety and Quality Assurance
Rm 7A-097
1000 Independence Avenue, SW
Washington, DC 20585
(202) 586-4710

Authority (1) Atomic Energy Act of 1954, as amended
(2) Energy Reorganization Act of 1974
(3) Department of Energy Organization Act of 1977

Implementation Prescribed and recommended Environment, Safety, and Health (ES&H) standards (approximately 300) are listed in Order DOE 5480.4, Attachments 1,2 and 3.

Application Department of Energy (DOE) Headquarters ES&H program personnel appraise DOE field operations and contractors to evaluate conformance with the prescribed ES&H standards. DOE field operations personnel also evaluate DOE contractors to ascertain compliance with the standards. As appropriate, recommendations for improved conformance are made and ameliorative actions are implemented.

Adoption of Nongovernment Standards Approximately 65 nongovernment ES&H standards have been adopted as prescribed standards and approximately 135 nongovernment ES&H standards have been adopted as recommended standards. These are primarily from ANSI, NFPA, ISEE, and ANS.

Committee Activity American National Standards Institute, American Nuclear Society, and National Fire Protection Association

Standardisation Activities Adoption of appropriate voluntary standards for use in DOE activities.

Availability U.S. Department of Energy
Office of Worker Health and Safety
EH-53/270CC
19901 Germantown Road
Germantown, MD 20874

Keywords environment; safety; health; nuclear; occupational; emergency; fire; transportation; reactor; explosives; energy;

DEPARTMENT OF ENERGY

TECHNICAL STANDARDS PROGRAM OFFICE

DOE, EN-31
19901 Germantown Road
Germantown, Maryland 20874
(301) 903-2856 FAX: (301) 903-8693
e-mail: richard.serbu@hg.doe.gov
WWW: <http://apollo.osti.gov/html/techstds/techstds.html>

Authority (1) Atomic Energy Act of 1954, as amended
(2) Energy Reorganization Act of 1974
(3) Department of Energy Organization Act of 1977

Implementation DOE Order 1300.2A provides for a coordinated DOE-wide standardization program for the development and application of standards; participation in nongovernment standards bodies; and effective management to promote consistent standards application, avoid duplication, share information, and enhance standards availability. DOE has developed 58 technical standards for its unique applications and 34 handbooks to record lessons learned. These are listed in the DOE Standards Index, DOE-TSL-1.

Application The focus of DOE's Technical Standards Program is adherence to appropriate nongovernment standards in the design, construction, testing, modification, operation, decommissioning, decontamination, and remediation of DOE's facilities and activities. Standards proven through years of experience and accepted by professional and technical societies are used wherever applicable. No matter how carefully conceived and properly developed, technical standards cannot address all eventualities, therefore, DOE employees and contractors critically assess the standards in use at DOE facilities to ensure that they remain consistent with the latest information arising from operational experience and developments in science and technology. Where standards do not exist or where existing standards do not suffice, appropriate DOE standards are developed and adopted.

Adoption of Nongovernment Standards DOE has adopted more than 800 nongovernment standards. These are listed in the DOE Standards Index, DOE-TSL-1.

Committee Activity More than 800 DOE and contractor personnel participate in the standardization activities of more than 4000 committees of 64 nongovernment standards organizations.

Standardization Activities Development and adoption of technical standards is vested in DOE Field Offices. Standards Managers working through Preparing Activities, Adoption Activities, and standing committees of technical experts apply, develop, and maintain the standardization program in their technical areas of responsibility. Overall management and guidance is provided by the DOE Technical Standards Management Committee.

Availability Copies of DOE standards, handbooks, specifications, and technical standards lists (TSLs) are available for DOE employees, DOE contractors, and laboratories from:

Office of Scientific and Technical Information (OSTI)
P.O. Box 62
Oak Ridge, Tennessee 37831
(423) 576-8401
FAX (423) 576-2865

Others may obtain copies of these documents from National Technical Information Service, Information Handling Services, and Global.

The TSLs, many DOE standards, and the monthly DOE publication Standards Actions are available on-line at the WWW site listed above.

Keywords products; equipment; processes; materials; systems; construction; maintenance testing; operation; decommissioning; nuclear; safety; environment;

ENVIRONMENTAL PROTECTION AGENCY

ADMINISTRATOR

401 M Street, SW
Washington, DC 20460
(202) 260-2897 FAX: (202) 260-1847

- Authority**
- (1) Clean Air Act, P.L. 88-206
 - (2) Clean Water Act, P.L. 92-500
 - (3) Comprehensive Environmental Response Compensation and Liability Act (CERCLA), P.L. 96-510
 - (4) Federal Food, Drug and Cosmetic Act, Stat. 1040
 - (5) Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), P.L. 92-515
 - (6) Marine Protection, Research and Sanctuaries Act, P.L. 92-532
 - (7) Resource Conservation and Recovery Act (RCRA), P.L. 94-580
 - (8) Safe Drinking Water Act, P.L. 93-523
 - (9) Toxic Substances Control Act (TSCA), P.L. 94-469
 - (10) Uranium Mill Tailings Radiation Control Act, P.L. 95-604
 - (11) Plus amendments thereto and other acts not listed
 - (12) National Environmental Policy Act, (P.L. 91-190)
 - (13) Noise Control Act, (P.L. 92-574)
 - (14) Medical Waste Tracking Act, (P.L. 100-582)
 - (15) Asbestos Hazard Emergency Response Act, (P.L. 99-519)
 - (16) Asbestos Information Act, (P.L. 100-577)
 - (17) Asbestos School Hazard Abatement Act, (P.L. 98-377)
 - (18) Indoor Radon Abatement Act, (P.L. 100-551)

Implementation Environmental Protection Agency (EPA) standards are published in Part 40 of the Code of Federal Regulations (40 CFR). Some standards are mandatory, others voluntary. State and local governments usually have the right to impose standards that are more stringent than those EPA sets.

Application Standards are applied in various ways including individual permits establishing emissions or effluent limits, product registration, state and local implementation plans, direct reporting to EPA, recordkeeping, on-site inspections, voluntary adoption, etc.

**Adoption of
Nongovernment
Standards**

40 CFR refers readers to nongovernmental standards it accepts in lieu of incorporating the standards in the CFR.

**Qualification,
Certification,
or Calibration**

EPA samples products and the environment for compliance with its standards. Examples include monitoring motor vehicle emissions, wastewater discharges, new chemicals and pesticides, land fills, ambient air, and drinking water systems. The Agency also reviews manufacturers' requests to label products as "certified to EPA standards."

**Committee
Activity**

Advisory Commission on Intergovernmental Relations;
Council on Environmental Quality;
Interagency Testing Committee (ITC);
National Air Pollution Control Techniques Advisory Committee;
National Drinking Water Advisory Council;
Environmental Committee of the Organization for Economic Cooperation and Development;
Science Advisory Board;
U.S. Canada International Joint Commission (on air and water);
Stratospheric Ozone Protection Advisory Committee;
Volatile Organic Chemical Equipment Leak Rule Negotiated Rule Making Committee;
Biotechnology Science Advisory Committee;
FIFRA Scientific Advisory Panel;

**Standardization
Activities**

EPA environmental standards apply to individuals, businesses; federal, state and local governments; and other organizations. They are intended to ensure clean air and water, safe containment of toxic wastes, protection from excessive radiation, protection of the Nation's waters for fish/wildlife and human use, undue exposure to toxic substances, etc. The following offices are directly involved in standards development and application: Office of Air Radiation, (202)382-7400; Office of Pesticides and Toxic Substances, (202)382-2902; Office of Research and Development, (202)382-7676; Office of Solid Waste and Emergency Response, (202)382-4610; Office of Water, (202)382-5700. These Offices exercise responsibility for standards dealing with water quality, solid and hazardous wastes, pesticides and toxic substances, ambient air, research and development practices, and radiation. The Administrative Procedures Act mandates publication of proposed rules (standards) followed by public comment/ hearings prior to promulgating the rule. Usually, once a standard is set, states and other jurisdictions must submit, by a certain date, implementation plans for meeting these standards or face the alternative of having EPA write and impose its own plan.

Availability Part 40 of the Code of Federal Regulations, available from the Government Printing Office, contains all Agency standards; EPA also publishes both the standards and resulting implementation plans in the Federal Register.

Keywords environment; air; water; radiation; pollution; toxic substances; hazardous waste; pesticides; chemicals; materials; sanitation;

EXECUTIVE OFFICE OF THE PRESIDENT

OFFICE OF THE U.S. TRADE REPRESENTATIVE

Office of World Trade Organization (WTO) and
Multilateral Affairs Room 513
600 Seventeenth Street, NW
Washington, DC 20508
(202) 395-3063 FAX: (202) 395-3911

Authority Title IV of the Trade Agreements Act of 1979 (P.L. 96-39, July 26, 1979) and the Uruguay Round Agreements Act (PL 103-465) on approval of the Agreements on Technical Barriers to Trade and on the Application of Sanitary and Phytosanitary Measures which sets forth disciplines on standards related activities. USTR does not itself develop standards, test methods or rules of certification.

Implementation Through the Trade Policy Committee structure, chaired by the Office of the U.S. Trade Representative (USTR), U.S. Government coordination of the implementation and administration of the WTO Agreements on Technical Barriers to trade and on the application of Sanitary and Phytosanitary measures is achieved. USTR works primarily with the Departments of Agriculture, Commerce, and State in this area.

Application The U.S. Trade Policy Staff Committee (TPSC) Subcommittee on Standards meets regularly to approve U.S. positions for meetings of the WTO Committees on Technical Barriers to Trade and Sanitary and Phytosanitary Measures. The TPSC also approves positions for bilateral standards related discussions with governments which are WTO signatories.

Adoption of Nongovernment Standards USTR coordinates with the private sector through an extensive advisory committee structure including, in particular, the Industry Functional Advisory Committee on Standards (IFAC 2). The Trade Policy Staff Committee (TPSC) Subcommittee on Standards is the primary vehicle for coordination of trade policy within the U.S. government.

Qualification, Certification, or Calibration USTR coordinates closely with nongovernmental bodies directly and through IFAC 2.

Committee Activity USTR directly participates in the Board of the American National Standards Institute and its International Advisory Committee.

Keywords international trade; business; general; WTC; TBT; phytosanitary; sanitary; standards code;

FEDERAL COMMUNICATIONS COMMISSION

OFFICE OF ENGINEERING AND TECHNOLOGY

2000 M Street, NW
Suite 480
Washington, DC 20554
(202) 418-2470 FAX: (202) 418-1944
e-mail: rmsmith@fcc.gov

Authority The Communications Act of 1934, as amended (47 U.S.C. 151) established the Federal Communications Commission (FCC) for the purpose of regulating interstate and foreign commerce in communications by wire and radio in the public interest.

Implementation The FCC Rules and Regulations are contained in Title 47 Code of Federal Regulations. Relevant standards are located throughout the various rule Parts 0 to end. Information on proposed and adopted standards is published in the Federal Register in Notices of Inquiry, Notices of Proposed Rule Making, Report and Orders, and Memorandum Opinion and Orders.

Application Standards are applied to a wide variety of communications equipment and services. Because there are many different types of standards throughout the FCC rules, various methods are used to enforce the rules or standards. The methods used are: on-site inspections, FCC laboratory testing, review of test data submitted by applicants, and self verification.

Adoption of Nongovernment Standards The Commission has adopted nongovernment standards and will continue to do so whenever it is in the public interest. These Standards are referenced in the appropriate parts of the rules, and in many cases voluntary standards become mandatory standards when referenced in the Rules and Regulations.

Qualification, Certification, or Calibration Applicants wishing to establish a radio station, whether it be broadcast, private, common carrier, or experimental, must submit information showing compliance with FCC Rules. If the requirements (standards) are met, a license is issued. The Commission has issued in excess of 3 million radio licenses. The Commission also has equipment authorization programs and issues approximately 6000 equipment approvals each year.

Committee Activity The Commission participates in pertinent organizations and committees which deal with telecommunications standards. Some of these are: Institute of Electrical and Electronics Engineers, American National Standards Institute, Telecommunications Industry Association, Intelligent Transportation Society of America, International Telecommunication Union, International Special Committee on Radio Interference, Radio Technical Commission for Aeronautics, Radio Technical Commission for Maritime Services, Inter-American Telecommunication Commission, National Marine Electronics Association, Allied Radio Frequency Association, International Maritime Organization, etc.

Standardization Activities The Commission participates in international and national standards organizations developing communication systems and equipment. The Commission provides technical analysis and testing of systems and equipment.

Availability Title 47 of the Code of Federal Regulations available from the U.S. Government Printing Office.

Keywords frequency allocations; radio frequency interference; electromagnetic compatibility; communications;

FEDERAL TRADE COMMISSION

BUREAUS OF COMPETITION (BC) AND CONSUMER PROTECTION (BCP)

Licensed Occupations, BC, or Service Industry Practices, BCP
Washington, DC 20560

(202) 326-2904 (BC)
(202) 326-3297 (BCP)

Authority Federal Trade Commission Act, 95, 15 U.S.C. 945. Section 5 of the Federal Trade Commission Act declares unfair methods of competition, and unfair or deceptive acts and practices, in or affecting commerce, to be unlawful.

Adoption of Nongovernment Standards In preventing unfair or deceptive acts or practices in commerce, the Federal Trade Commission (FTC) may reference standards in trade regulation rules or guides. For example, the Commission incorporated several nongovernment standards by reference in its rule relating to labeling and advertising of home insulation (R-value rule, 16 CFR, part 460).

Standardization Activities The Commission's Bureau of Competition (BC) and Bureau of Consumer Protection (BCP) investigate standards and certification activities that may unreasonably result in a substantial lessening of competition in violation of the Federal Trade Commission Act. One example would be allegations that a standard or a seal of approval program unreasonably excluded innovative products from the marketplace. They would also investigate allegations that standards or seals of approval are being used deceptively in the sale of products. If the Commission finds reason to believe that the law may have been violated, it may commence a law enforcement action to enjoin such anti-competitive or deceptive activities and to seek such other relief as may be appropriate. The Commission may, under appropriate circumstances: issue advisory opinions as to the legality of standards or certification practices presented for review; participate in relevant interagency or intergovernmental committees; present its views to appropriate legislative, judicial, or industry entities concerning specific standards or certification issues.

Keywords antitrust; restraint of trade; anti-competitive practices; competition; unfair methods; innovation; deception; business; general;

GENERAL SERVICES ADMINISTRATION

INFORMATION RESOURCES MANAGEMENT
18th and F Streets, NW
Washington, DC 20405
(202) 566-1180

Authority

1. Public Law 89-306: The Brooks Act
2. Public Law 99-500: The Paperwork Reduction Reauthorization Act of 1986

Implementation The Federal Information Resources Management Regulation (FIRMR) establishes Federal Standards provisions and requirements for the acquisition of ADP and telecommunications resources. The Federal ADP and Telecommunications Standards Index provides terminology to incorporate standards in solicitation documents. It also provides a catalogue of all American National Standards (ANSI), Federal Information Processing Standards (FIPS), and Federal Standards (FED-STD).

Application Federal acquisition of ADP and Telecommunications resources must be in compliance with established Federal Standards provisions of the FIRMR.

Committee Activity The GSA is an active voting member of the X3: Information Processing System; ANSI: Standards Committee T1, Telecommunications; Federal Telecommunications Standards Committee; and ANSI Information Systems Standards Board.

Standardization Activity The GSA serves as a focal point for the Government-wide Federal Information Processing and Telecommunications Standards Program. GSA participates directly in the development of federal standards, and develops terminology to incorporate standards in solicitation documents for acquisition and use of ADP and telecommunications resources. GSA provides advice and assistance to federal agencies and private sector personnel on information systems and telecommunications standards.

Availability The Federal ADP and Telecommunications Standards Index is sold by the Government Printing Office.

Keywords information processing; telecommunications; terminology;

GENERAL SERVICES ADMINISTRATION

NATIONAL ARCHIVES AND RECORDS ADMINISTRATION

Policy and IRM Services (PIRM)
Room 4200
8601 Adelphi Road
College Park, MD 20740
(301) 713-6400 FAX: (301) 713-6497

Authority 44 U.S.C. 2101 et seq., April 1, 1985, the Archivist of the United States shall provide for the preservation of federal records of continuing value. As provided in 44 U.S.C. chapters 29 and 33, the Archivist of the United States is authorized to establish standards for "the selective retention of records of continuing value" and for the "reproduction of records by photographic or microphotographic processes."

Implementation	Standards for managing records of different media are codified in National Archives and Records Administration (NARA) regulations as follows: microfilm records, 36 CFR, Part 1230, Subpart C; audiovisual records, 36 CFR, Part 1232; and electronic records, 36 CFR, Part 1234, Subpart C.
Application	NARA requires agencies to produce and maintain microfilm, audiovisual, and electronic records according to production and maintenance standards.
Adoption of Nongovernment Standards	NARA has adopted standards for microfilm and audiovisual records promulgated by the American National Standards Institute (ANSI), International Organization for Standards (ISO), Association for Information and Image Management (AIIM), and the National Fire Protection Association (NFPA).
Qualification, Certification, or Calibration	Agencies are to certify that the permanent microfilm and audiovisual records they produce meet ANSI/AIIM standards and that storage facilities for audiovisual records meet NFPA standards.
Committee Activity	NARA participates in the following pertinent standards setting organizations: American Society for Testing and Materials (ASTM) Committee on Binding Adhesives; ASTM Committee D-6 on Recycled Paper; ANSI/AIIM Committees 20 and 21; Audio Engineering Society Subcommittee (SC) 3 on Audio Preservation and Restoration; ANSI/National Association of Photographic Manufacturers (NAPM) Image Technology (IT) Standards Committee 9; ANSI/NAPM IT9-1 Subcommittee on Stability of Wet-Processed Silver Images; ANSI/NAPM IT9-2 Subcommittee on Stability of Photographic Prints; ANSI/NAPM IT9-2 Subcommittee on Storage of Plates, ANSI/NAPM IT9-3 Subcommittee on Stability of Colored Images; ANSI/NAPM IT9-5 Subcommittee on Stability of Optical and Electronic Media; and NFPA Technical Committee on Records Protection.
Standardization Activities	In recent years, NARA staff members have participated in the development of voluntary standards, either as members of standards setting committees or as reviewers of drafts of various standards. NARA has adopted five of these voluntary standards: ANSI/NAPM IT9.16-1993, Imaging Media-Photographic Activity Test; ANSI/NAPM IT 9.17-1993, ISO 417, Photography-Determination of Residual Thiosulfate and Other Related Chemicals in Processed Photographic Materials-Methods Using Iodine-Amylose, Methylene Blue, and Silver Sulfide. ANSI/NAPM IT9.19-1994, Imaging Media (Film), Thermally Processed Silver Microfilm - Specifications for Stability; ANSI/NISO/Z 39.62-1994, Eye Legible Information on Microfilm Leaders and Trailers and on Containers of Processed Microfilm on Open Reels; and ANSI/AIIM/MS 45-1990, Recommended Practice for Inspection of Stored Silver Gelatin Microfilms for Evidence of Deterioration.

NARA has also prepared guidance for federal agencies regarding the use of Compact Disc-Read Only Memory (CD-ROM) and optical disk systems to store federal records. The guidance states that CD-ROM files that will be transferred to NARA as permanent records should be in conformance with ISO 9660 standards and the American Standard Code for Information Interchange (ASCII) standard as defined in the Federal Information Processing Standard 1-2 (11/14/84). NARA has also revised its regulations on audiovisual records management to include citations to ANSI/ISO and NFPA standards for storage conditions.

Availability

NARA's regulations, which may be found in 36 CFR, chapter 12, and which cite NARA's use of voluntary standards, are available from the Superintendent of Documents.

Keywords

permanent records; archives; preservation; micro-graphics; photography; audiovisual records; electronic records; optical disk; magnetic tape; film; paper; data; data exchange;

GENERAL SERVICES ADMINISTRATION

OFFICE OF ACQUISITION

FSS Acquisition Management Center
Crystal Mall, Building 4
Washington, DC 20406
(703) 305-6930 FAX: (703) 305-6851

Authority

The Federal Standardization Program was developed in compliance with the Federal Property and Administrative Services Act of 1949, 63 STAT. 377, as amended. The program provides for coordination of civil and military standardization functions, so as to avoid unnecessary duplication, pursuant to the Act and in consonance with the Defense Cataloging and Standardization Act (Secs. 2451-2456, Title 10, U.S.C., superseding P.L. 436).

Implementation

41 CFR 101-29 describes the standardization program under Federal Product Descriptions. The FSS is responsible for 550 Federal Specifications, 35 Federal Standards, and 1450 Commercial Item Descriptions. More than 800 nongovernment standards have been adopted.

Application Federal product descriptions shall be used by all federal agencies in the procurement of supplies and services covered by such descriptions, except as provided in 41 CFR 101-29.402 and 41 CFR 101-29.403.

Adoption of Nongovernment Standards The General Services Administration has adopted more than 800 nongovernment standards. The majority of these are invoked by reference in the federal specifications, federal standards and commercial item descriptions authored by GSA.

Qualification, Certification, or Calibration The General Services Administration (GSA) Office of Quality and Contract Administration handles the inspection and testing, as necessary, of supplies procured under GSA contracts. Through the five regional control divisions and the one regional laboratory, this program provides assurance that material supplied is in compliance with contract specifications.

Committee Activity GSA employees participate in a number of standards developing bodies. These organizations include committees of ANSI, ASTM, and SAE.

Standardization Activities GSA is responsible for establishing policies and procedures, in coordination with other agencies, for the preparation, coordination, approval, issuance, and maintenance of product descriptions in the federal series.

FSS issues and maintains, on a current status, the Federal Standardization Manual. The Manual sets forth operating procedures and applicable definitions used in the development of federal product descriptions.

FSS also promulgates and maintains, on current status, the Index of Federal Specifications, Standards, and Commercial Item Descriptions. The Index lists federal product descriptions which have been printed and distributed, including those which are mandatory for use by all federal agencies and identifies the sources from which these documents may be obtained. There are approximately 10 000 federal product descriptions in use, of which 75 percent have been assigned to other agencies.

Availability General Services Administration, Federal Supply Service Bureau, Specification Section, suite 8100, 470 L'Enfant Plaza, SW, Washington, DC, 20407.

Keywords federal product descriptions; standards; specifications; commercial item descriptions; qualified products lists; nongovernment documents; general;

GENERAL SERVICES ADMINISTRATION

PUBLIC BUILDING SERVICE

Eighteenth & F Streets, NW
Room 7313
Washington, DC 20405
(202) 501-0191

Authority The Architectural Barriers Act of August 12, 1968, (Public Law 90-480, 1976 amendment, Public Law 94-541)

Implementation The General Services Administration is required as one of the four standard setting agencies, to "prescribe standards for the design construction, and alteration of buildings (other than residential structures subject to this Act and buildings, structures, and facilities of the Department of Defense and of the United States Postal Service subject to this Act) to ensure whenever possible that physically disabled persons will have ready access to, and use of, such buildings.

Application The General Services Administration, (GSA) issued PBS, PCD. Design Guide 6, GSA Accessibility standard, on October 14, 1980. GSA and the Department of Housing and Urban Development, the Department of Defense, and the United States Postal Service jointly published the Uniform Federal Accessibility Standards on August 7, 1984 which sets standards to ensure that certain buildings financed with Federal Funds are so designed and constructed as to be accessible to the physically handicapped.

Adoption of Nongovernment Standards After passage of the Architectural Barriers Act, GSA adopted "Specifications for Making Building and Facilities Accessible to, and Usable by, the Physically Handicapped" ANSI/CABO A117.1.

Committee Activities GSA is a member of the Architectural and Transportation Barriers Compliance Board and the Council of American Building Officials Committee on Accessibility, 1331 F Street, Suite 1000, Washington, DC 20004-1111, (202) 272-5434

Standardization Activities GSA develops, publishes and updates accessibility standards to ensure that all building designs, constructed, altered, increased by an addition, or leased with federal funds are accessible and usable by disabled individuals. The Administrator also has the authority to waive or modify those standards on a case-by-case basis.

Availability The Uniform Federal Accessibility Standards are available, free of charge from GSA or the Architectural and Transportation Barriers Compliance Board.

Keywords building; construction; general; social welfare; access; physically disabled;

HEALTH AND HUMAN SERVICES

CENTER FOR DISEASE CONTROL

National Institute for Occupational Safety and Health
Hubert H. Humphrey Building
200 Independence Avenue, SW
Washington, DC 20201
(202) 401-6997

- Authority**
- (1) 29 U.S.C. 651-678, December 29, 1970, Occupational Safety and Health Act (OSH Act), to assure safe and healthful conditions of working men and women; by authorizing enforcement of standards developed under the OSH Act; and for other purposes.
 - (2) 30 U.S.C. 801, 811, 842(h), December 30, 1969, Federal Coal Mine Health and Safety Act of 1969, as amended by the Federal Mine Safety and Health Act of 1977, to protect the health and safety of miners.

Implementation

Recommended Occupational Safety and Health Standards -- developed by the National Institute for Occupational Safety and Health (NIOSH) Division of Education and Development, 4676 Columbia Parkway, Cincinnati, Ohio 45202, telephone (513) 684-8302. Approximately 125 nonmandatory standards have been developed in the form of criteria documents dealing with control of toxic substances in the workplace. These criteria documents are submitted by NIOSH as recommendations to the Department of Labor (DOL) for use in the development of mandatory standards by DOL's Occupational Safety and Health Administration and DOL's Mine Safety and Health Administration.

Performance Standard for Respirators -- developed by NIOSH's Division of Safety Research, Testing, and Certification Branch, 944 Chestnut Ridge Road, Morgantown, West Virginia 26505, telephone (504) 923-4595. A mandatory standard under 30 CFR, Part 11 establishes a performance standard and the procedures for testing and certifying personal protective respiratory equipment.

Application The Department of Labor is responsible for the promulgation and enforcement of occupational health and safety standards.

Qualification, Certification or Calibration NIOSH's Division of Safety Research's Testing and Certification Branch is responsible for testing and certifying personal respiratory protective equipment based upon applications submitted by the manufacturers of such equipment.

Standardization Activities NIOSH employees actively participate in voluntary standard development activities of ANSI, ASTM, and American Conference of Governmental Industrial Hygienists (ACGIH).

Keywords respiratory protective equipment; toxic substances; workplace standards; safety; public health;

HEALTH AND HUMAN SERVICES

FOOD AND DRUG ADMINISTRATION

Office of Policy HF-23
 5600 Fishers Lane
 Rockville, Maryland 20857
 (301) 827-3344

Authority Federal Food, Drug, and Cosmetic Act, as amended (21 U.S.C. 321-392)

Public Health Service Act, as amended (42 U.S.C. 262, 263, 263k-263n, and 361), (42 U.S.C. 264 and 13951)

Fair Packaging and Labeling Act (15 U.S.C. 1451-1461)

Federal Import Milk Act (P.L. 69-625)

Tea Importation Act (21 U.S.C. 41-50)

Federal Caustic Poison Act (Note: Section 19 of the Federal Hazardous Substances Act (15 U.S.C. 401) repealed the Federal Caustic Poison Act except for any "dangerous caustic or corrosive substance" as defined by the Federal Caustic Poison Act which is subject to the Federal Food, Drug, and Cosmetic Act and not a "hazardous substance" under the Federal Hazardous Substances Act.)

Orphan Drug Act (P.L. 97-414)

Drug Price Competition and Patent Term Restoration Act (P.L. 98-417)

Drug Exports Amendments Act of 1986 (P.L. 99-660)

Prescription Drug Marketing Act of 1987 (P.L. 100-293)

Anti-Drug Abuse Act of 1988 (P.L. 100-690)

Saccharin Study & Labeling Act

Federal Anti-Tampering Act

Implementation

The Food and Drug Administration (FDA) Center for Food Safety and Applied Nutrition, 200 C Street SW., Washington DC 20204, (202) 203-4850, is responsible for:

- Color Additives -- Regulations under 21 CFR, Parts 73, 74, and 82 prescribe identity, specifications, and other conditions under which color additives may be safely used in food, drugs, cosmetics, and devices.
- Food Additives -- Regulations under 21 CFR, Parts 172-179 prescribe identity, specifications, and other conditions under which food additives may be safely used.
- GRAS Substances -- Regulations under 21 CFR, Parts 184 and 186 prescribe identity, specifications, and other conditions under which substances are generally recognized as safe (GRAS) as ingredients added directly or indirectly to human food.
- Food Standards -- Regulations under 21 CFR, Parts 131 through 169 prescribe standards of identity, quality, and fill of container for 21 different classes of foods. Most of these are standards of identity which specify the basic composition of the food.
- Other Food Regulations -- A number of other miscellaneous mandatory regulations concerning food for human consumption appear under 21 CFR, Subchapters A, B, and L (e.g., general labeling requirements under Subpart B of 21 CFR, part 1;

food labeling under 21 CFR, Part 101; 21 CFR Part 104 Nutritional Quality Guidelines for Food; quality standards for foods with no standards of identity under 21 CFR, Part 103; infant formula quality control procedures under 21 CFR, Part 105; Foods for Special Dietary Uses under 21 CFR, Part 105; regulations under the Federal Import Milk Act (21 CFR, Part 1210); and Interstate Conveyance Sanitation (21 CFR, Part 1250); Emergency Permit Control under 21 CFR, Part 108; Unavoidable Contaminants in Foods under 21 CFR, Part 110; Good manufacturing Practices in Human Food under 21 CFR, Part 110; Thermally Processed Low-acid foods under 21 CFR, Part 113; Acidified foods under 21 CFR, Part 114; Processing and Bottling of Bottles Drinking Water under 21 CFR, Part 129.

- Cosmetic Regulations -- Regulations under 21 CFR, Parts 701 and 740 prescribe standards for cosmetic labeling.
- Federal Caustic Poison Act -- Regulations under 21 CFR, Part 1230 prescribe labeling requirements, methods of analysis, and other conditions for enforcement of the Federal Caustic Poison Act.

FDA's Center for Drug Evaluation and Research, 1451 Rockville Pike, Rockville, Maryland 20852, (301) 594-6740 and Center for Biologics Evaluation and Research, 1401 Rockville Pike, Rockville, Maryland 20852, (301) 827- 0372, develop standards and regulations for:

- Biological Products Applicable to the Prevention, Treatment or Cure of Diseases or Injuries of Man --In addition to the regulations at 21 CFR Subchapter C and D that apply to all products, including biological products, that are applicable to the prevention, treatment or cure of diseases or injuries of man (drug products), mandatory regulations for biological products exist at Subchapter F.
- Insulin and Antibiotics -- Regulations under 21 CFR, Parts 429-460 prescribe standards, tests, and methods of assay for insulin and antibiotic drugs. In the near future many of these regulations are expected to be eliminated.
- Over-the-Counter (OTC) Drugs -- 21 CFR, Parts 331, 332, 333, 336, 338, 340, 341, 344, 349 and 357 prescribe specifications and conditions under which therapeutic categories of OTC drugs are generally recognized as safe and effective. Regulations under 21 CFR Part 310 describe conditions under which certain therapeutic categories of OTC drugs are not generally recognized as safe and effective.

- Biological Product -- Regulations appear under 21 CFR, Subchapter F concerning labeling, standards, testing, and other conditions under which bacterial and viral vaccines, toxoids, antitoxins, blood, and blood derivatives, allergenic products, and other biological products can be safely used.
- Control of Communicable Diseases -- Regulations under 21 CFR, Part 1240 concern control of communicable diseases.

FDA's Center for Devices and Radiological Health, Office of Science and Technology, 2094 Gaither Road, Rockville, Maryland 20850, (301) 594-4765, prepares:

- Procedures for Performance Standards Development -- Regulations under 21 CFR, Part 861 prescribe the procedures for initiation, development, establishment, amendment, and revocation of performance standards applicable to devices intended for human use.
- Device Classification Procedures -- Regulations under 21 CFR, Part 860 prescribe the criteria and procedures governing the classification and reclassification of devices intended for human use into one or more of three regulatory classes: class I (general controls), class II (special controls), and class III (premarket approval).
- Device Classification Regulations -- FDA is developing mandatory regulations to classify all medical devices intended for human use into one or more of these three classes depending upon the regulatory controls needed to provide reasonable assurance of their safety and effectiveness. Device classification regulations appear under 21 CFR, Parts 864-892.
- Other Device Regulations -- A number of other miscellaneous mandatory device regulations appear under 21 CFR, Subchapter H (e.g., general labeling requirements under 21 CFR, Part 801; exemptions from federal preemption of state and local medical device requirements under 21 CFR, Part 808; in vitro diagnostic products for human use under 21 CFR, Part 809; investigational device exemptions under 21 CFR, Part 812; and investigational exemptions for interocular lenses under 21 CFR, Part 813).
- Performance Standards for Ionizing Radiation Emitting Products -- Regulations under 21 CFR, Part 1020 prescribe standards to control the emission of radiation from microwave ovens.

- Performance Standards for Light Emitting Products -- Regulations under 21 CFR, Part 1040 prescribe standards to control the emission of radiation from lasers, sunlamps, and other light-emitting products.
- Performance Standards for Sonic, Infrasonic, and Ultrasonic Radiation-Emitting Products -- Regulation under 21 CFR, Part 1050 prescribes standards to control the emission of radiation for ultrasonic therapy products.
- Other Radiological Health Regulations -- A number of other mandatory and nonmandatory regulations appear under 21 CFR, Subchapter J (e.g., general provisions and radiation protection recommendations under 21 CFR, Part 1000; importation of electronic products under 21 CFR, Part 1005; performance standards for electronic products: general under 21 CFR, Part 1010).

FDA's Center for Veterinary Medicine, 7500 Standish Place, Rockville, Maryland 20855, (301) 594-1830, is responsible for:

- Food Additives Permitted in Feed and Drinking Water of Animals -- Approximately 55 mandatory regulations under 21 CFR, Part 573 prescribe identity, specifications, and other conditions under which food additives may be solely used in feed and drinking water of animals.
- New Animal Drugs -- Approximately 650 mandatory regulations under 21 CFR, Parts 520-530 and 558 prescribe identity, specifications, testing, and other conditions for safe use of new animal drugs.
- Other Animal Drugs, Feeds, and Related Products Regulations -- A number of other miscellaneous mandatory regulations concerning animal drugs, feeds, and related products appear under 21 CFR, Subchapter E (e.g., animal food labeling under 21 CFR, Part 501; and tolerances for residues of new animal drugs in food under 21 CFR, Part 556).

Application

To determine that FDA-regulated products are in compliance with statutes, FDA conducts inspections of manufacturing establishments, collects and analyzes domestic samples and import samples, and conducts wharf examinations of products in import channels of trade. Samples collected are analyzed at FDA field and headquarters laboratories.

**Adoption of
Nongovernment
Standards**

FDA has adopted more than 300 nongovernment standards. The majority of these are ASTM, Association of Official Analytical Chemists (AOAC), Food Chemicals Codex, and American Public Health Association. In addition to these nongovernment standards, 21 U.S.C. 352(b) and 352(g) mandate that FDA use standards in an "official compendium" such as the United States Pharmacopeia.

**Qualification,
Certification,
or Calibration**

Color additives (unless the color is specifically exempted) and insulin are batch-certified by FDA prior to marketing. Many biological products are required by regulation to be tested by FDA prior to release of each lot of product. Well-characterized biological products, once licensed and their manufacturing process validated, are not subject to lot-by-lot release by FDA. With few exceptions (e.g., foods, cosmetics), most FDA-regulated products are subject to preclearance by FDA before they may be marketed.

**Committee
Activity**

More than 270 FDA staff members participate with 29 standards organizations in more than 270 standardization activities. For example:

ANSI (13 committees, 16 subcommittees)
ASTM (5 committees, 52 subcommittees)
AAMI (27 committees, 11 subcommittees)
ASME (1 committee, 3 subcommittees)
USP (6 subcommittees)
NCCLS (10 committees, 24 subcommittees)
American College of Radiology (6 committees)
IEEE (4 committees, 7 subcommittees)
Acoustical Society of America (2 committees)
IEC (4 technical committees, 23 subcommittees)
ISO (7 technical committees, 13 subcommittees)
NCCLS (11 committees, 34 subcommittees)
International Organization for Legal Metrology (OIML), U.S.
Technical Advisory Group for SP26
Codex Alimentarius (FAO/WHO) (16 committees)

**Standardization
Activities**

The broad scope of FDA's involvement in standardization activities is reflected by the programmatic CFR listings above under Implementation and the partial listing under Committee Activities. Since May 27, 1975, FDA has regulated and encouraged participation of its employees in outside standard setting activities (the current regulation appears under 21 CFR 10.95). It is FDA policy to use and cite in its regulations nongovernment standards whenever possible and consistent with FDA's statutory mandates to protect the public health.

Availability FDA regulations are published in the Code of Federal Regulations available from the Government Printing Office. Each FDA regulation that incorporates by reference test methods or other materials also lists the complete address from which copies may be obtained.

Keywords food; food additives; color additives; cosmetics; human drugs; animal drugs; biologics; medical devices; radiation protection; electronic product radiation; safety; public health; consumer products;

HEALTH AND HUMAN SERVICES

HEALTH CARE FINANCING ADMINISTRATION

7500 Security Boulevard
Baltimore, Maryland 21244-1850
(410) 786-6810

Authority Titles XVIII and XIX of the Social Security Act.

Implementation 42 CFR, Chapter 4, Subchapters A through E. Regulations addressing the survey and certification of health care facilities wishing to participate in the Medicare and Medicaid programs.

Application State survey agencies and Health Care Financing Administration (HCFA) regional offices apply procedures set forth in these regulations in determining a facility's eligibility for certification and in making certification decisions.

Committee Activity HCFA works closely with Association of State and Territorial Health Officials, Association of Health Facility Survey Agencies, and various consumer and industry groups in developing its standards.

Standardization Activities HCFA standards apply to the survey and certification of all health care facilities wishing to participate in the Medicare and/or Medicaid programs. Having standard procedures assures national uniformity in approving facilities for Medicare/Medicaid reimbursement.

Availability Standards are available from the Government Printing Office and Health Care Financing Administration's Office of Public Affairs.

Keywords Medicare; Medicaid; survey and certification; health care providers and suppliers; state survey agencies; health care; facilities management; insurance;

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

ASSISTANT SECRETARY FOR HOUSING - FEDERAL HOUSING COMMISSIONER

Manufactured Housing and Construction Standards Division
451 Seventh Street, SW, Room B-133
Washington, DC 20410-8000
(202) 755-7440 FAX: (202) 755-0303

Authority

- (1) Minimum Property Standards (MPS) - Sec. 7(d) of the Department of Housing and Urban Development Act of 1965, 79 Stat. 670; 42 U.S.C. 3535 (d); Sec. 211, 52 Stat. 23; 12 U.S.C. 1715b and 81 Stat. 54; 5 U.S.C. 522(a).
- (2) Technical Suitability of Products Program - Sec. 521 of the National Housing Act was added by Sec. 216 of the Housing and Urban Development Act of 1965, Public Law 89-117.
- (3) Manufactured Housing - Section 7(d), Department of Housing and Urban Development Act, 42 U.S.C. 3535(d), Title VI, Housing and Community Development Act of 1974 (42 U.S.C. 5401).

Implementation

All standards are codified as regulations and are mandatory. The MPS, which include as supplements product acceptance under Sec. 521 and the Department of Housing and Urban Development (HUD) Building Products Certification Programs, are incorporated by reference in 24 CFR, Part 200 Subpart S, Sections 200.925, 200.927, 200.929, 200.931, 200.933, 200.935 with an Appendix. Manufactured Home Construction and Safety Standards are in 24 CFR Parts 3280, 3282 and 3283.

Application

Design drawings are reviewed for compliance, and inspectors visit site development and manufacturing facilities for construction or manufacturing compliance. The MPS are only applicable for HUD mortgage or loan insurance and low-rent public housing programs. The Manufactured Home Standards are applicable for all manufacture homes which are designed to be used as dwelling units.

**Adoption of
Nongovernment
Standards**

Nongovernment standards are invoked by reference or adoption whenever possible. There are approximately 500 nongovernment standards referenced in the Minimum Property Standards and supplemental standards issued under the Technical Suitability of Products Program. The Manufactured Housing Program Standards contain 200 nongovernment standards. Principal

developers of these standards include the American Society for Testing and Materials (ASTM), American National Standards Institute (ANSI), American Concrete Institute (ACI), American Plywood Association (APA), American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE), and Architectural Aluminum Manufacturers Association (AAMA).

**Qualification,
Certification,
or Calibration**

Proponents of new building products or systems submit technical data for analysis under the Technical Suitability of Products Program. Upon a determination of suitability, a Materials Release is issued for products and a Structural Engineering Bulletin for building systems. These documents supplement the MPS, and include these products for national acceptance. Use of Materials Bulletins are issued either as an interim HUD standard for a particular class of like products, such as carpet, or as a means of promulgating a certification program for a product. There are currently Engineering Bulletins, Materials Releases, Use of Materials Bulletins, and 13 Certification Programs in effect.

Under the Manufactured Housing Program all designs, quality assurance manuals, product certifications and listings are approved by design approval agencies, accepted by HUD. All manufactured homes are inspected by in-plant inspection agencies for conformance to the approved design, and federal standards. Average yearly production of manufactured homes is 250 000 homes.

HUD encourages industry enforcement and self certification for those materials covered by product standards and Federal Specifications. It also requires third party certification in conformance with criteria set out in 24 CFR 200.935 for lumber, plywood, carpet, windows, plastic bathtubs, etc.

**Committee
Activity**

HUD staff participate in pertinent committees that include the following: ASTM, National Conference of States on Building Codes and Standards (NCSBCS), ACI, American Lumber Standards Committee (ALSC), ANSI, ASHRAE, National Academy of Sciences, and National Institute of Building Sciences (NIBS).

**Standardization
Activities**

The Manufactured Housing and Construction Standards Division writes, updates, revises, and clarifies construction and design standards for HUD-associated residential construction. This activity grew out of the National Housing Act of 1934 and Sec. 7(d) Department of Housing and Urban Development Act, 42 U.S.C. 1535(d), Title VI, Housing and Community Development Act of 1974. The Code of Federal Regulations reference is Title 24 Housing and Urban Development.

The Minimum Property Requirements established the minimum essentials for a property to be considered economically sound security for Federal Housing Administration (FHA) mortgage insurance purposes. They establish and describe those characteristics of a property which will produce continuing utility, livability, durability, marketability, economy of maintenance, safety and healthy environment.

In 1974 the National Mobile Home Construction and Safety Standards Act was enacted by Congress to reduce the number of personal injuries and deaths and the amount of insurance costs and property damage resulting from mobile home accidents and to improve the quality and durability of mobile homes. All mobile manufactured housing built since June 15, 1976 must be in compliance with the requirements of this Act. The standards cover all equipment and installations in the design, construction, fire safety, plumbing, heating, ventilating, and electrical systems of manufactured homes which are designed to be used as dwelling units.

Availability

Minimum Property Standards are available through HUD field offices. The Manufactured Housing Standards are available from HUD, Manufactured Housing and Construction Standards Division at the address above.

Keywords

manufactured homes; mobile homes; certification; residential; mortgage insurance; building; sanitation; safety; standards; construction;

INTERDEPARTMENTAL SCREW THREAD COMMITTEE (Defunct)

Replaced by

DEFENSE INDUSTRIAL SUPPLY CENTER
ATTN: DISC-ECF
700 Robbins Avenue
Philadelphia, Pennsylvania 19111
(215) 697-2735

The Defense Industrial Supply Center (DISC) replaced the Inter-departmental Screw Thread Committee (ISTC) as preparing activity for the Screw Thread Standards for Federal Services in 1976. Following this transfer, the National Bureau of Standards Handbook H28, which consisted of 3 volumes of screw thread standards, was converted to a basic cover document, FED-STD-H28, and individually issued sections FED-STD-H28/1, FED-STD-H28/2, ..., FED-STD-H28/22. Each section is coordinated with Military Activities, Federal Agencies, and industry associations prior to approval by the General Services Administration.

DISC works closely with the American National Standards Institute (ANSI) Accredited Committee B1 of the American Society of Mechanical Engineers (ASME) which produces the inch and metric screw thread standards for general use by industry. ANSI/ASME B1 and other industry standards are incorporated into equivalent sections of FED-STD-H2B rather than duplicating industry standards as had been the practice in the old Handbook H2B.

Keywords fasteners; metric; manufacturing;

DEPARTMENT OF THE INTERIOR

MINERALS MANAGEMENT SERVICE

Offshore Rules and Operations Division, Branch of Rules, Orders, and Standards
381 Eiden Street
Mail Stop 646
Herndon, Virginia 22070
(703) 860-7564

Authority The Outer Continental Shelf Lands Act, 43 U.S.C. 1331 et seq., provides for the jurisdiction of the United States over the submerged lands of the Outer Continental Shelf (OCS), authorizes the Secretary of the Interior to lease such lands for the development and production of oil and gas, provides for the establishment and enforcement of safety regulations for oil and gas operations, and provides for environmental studies directed towards minimizing the impact of such operations.

Implementation Approximately 200 mandatory requirements are codified as regulations in 30 CFR, Parts 250, 251, 252, 256, 280, 281, and 282. These regulations are for OCS minerals operations, geological and geophysical explorations, an information program, and for the management of pipeline rights-of-way. The regulations are supplemented by OCS Orders for each of the four OCS Regions.

Application Inspectors visit offshore operators on the OCS to see that safety requirements are followed. Minerals Management Service (MMS) personnel review required reports from lessees to ensure that drilling and production personnel are properly trained, prepared to implement safety contingencies, and that all produced oil gas is properly measured and royalties paid.

Adoption of Nongovernment Standards The MMS currently incorporates by reference 65 nongovernment standards. The majority of these standards were developed by the American Petroleum Institute and the American Society for Testing and Materials.

Committee Activity The MMS participates in pertinent committees of the American Society of Mechanical Engineers, American Petroleum Institute, American Welding Society, American Society of Civil Engineers, American Concrete Institute, American Society for Quality Control, and the American Bureau of Shipping.

Standardization Activities The MMS participates in the preparation of the full range of engineering material and operational standards concerning offshore drilling and production of minerals. These standards are used internationally.

Availability MMS Regulations and OCS Orders are sold by Government Printing Office and MMS.

Keywords offshore minerals exploration; continental shelf; offshore platforms; energy; safety;

DEPARTMENT OF THE INTERIOR

FEDERAL GEOGRAPHIC DATA COMMITTEE

FGDC Secretariat
 590 National Center
 12201 Sunrise Valley Drive
 Reston, Virginia 22092
 (703) 648-5752 FAX: (703) 648-5755

Authority Executive Order 12906, calling for the establishment of the National Spatial Data Infrastructure (NSDI), requires federal agencies to adhere to applicable FGDC standards when collecting geospatial data, in accordance with responsibilities assigned in OMB Circular No. A-16.

Implementation Activities FGDC Subcommittees and Working Groups, charged with coordinating the NSDI by Executive Order 12906, develop standards to support the coordinated development, use, sharing, and dissemination of geospatial data on a national basis.

Application 2 standards, SDTS and Metadata, have been adopted by the FGDC. 1 standard, SDTS, has been adopted as a Federal Information Processing Standard (FIPS). Other standards may be submitted for adoption as FIPS, ANSI or ISO standards.

Standardization activities The FGDC has approximately 300 members that participate on subcommittees and working groups. A subset of these members plus additional nonmembers participate in standards development activities. The FGDC Subcommittees and Working Groups review existing standards, propose new or modified standards, and develop, test, and devise implementation strategies for standards. Developed standards relate to the content, classification, documentation, quality, transfer, and collection of geospatial data. They foster the sharing and multi-purpose use of data, avoid wasteful duplication of effort, and promote effective and economical management of our Nation's geographic information resources. Standards are developed in cooperation with federal, state, local, and tribal governments, the private and academic sectors, and the international community.

Availability Published and draft standards are available from FGDC at the address above.

Keywords National Spatial Data Infrastructure; bathymetric; cadastral; cultural; demographic; geodetic; geologic; transportation; boundaries; soils; vegetation; water; wetlands; hydrography; geospatial; metadata; SDTS;

DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY

Information Systems Division
Office of Data Administration
806 National Center
Reston, Virginia 22092
(703) 860-6086

Authority 43 U.S.C. 31, March 3, 1879 (USGS Organic Act), establishes the Geological Survey basic mission.

Implementation A Memorandum of Understanding with the National Institute of Standards and Technology (NIST) dated February 1980 gives the U.S. Geological Survey (USGS) key agency responsibility for federal digital data standards in the earth sciences (geology, hydrology, cartography, geography).

Application The USGS Data Standards Committee decides on applicable standards and their priority and establishes work groups to draft such standards, has them reviewed, and forwards them to NIST as proposed Federal Information Processing Standards (FIPS).

**Adoption of
Nongovernment
Standards**

The USGS works with various professional organizations in the development of pertinent standards and uses them as much as possible. The organizations include: the American Public Health Association, American Water Works Association; Water Pollution Control Federation; American Association of Petroleum Geologists; American Society for Testing and Materials; Association of Official Analytical Chemists; Instrument Society of America; International Organization for Standardization; International Electrotechnical Commission; American Commission on Stratigraphic Nomenclature.

**Committee
Activity**

The USGS participates in pertinent committees of ANSI, ISO, and the U.S. Geographic Names Committee.

**Standardization
Activities**

A long-term program has been established to develop pertinent standards for data elements and their representation (name, definition, units of measure, digital coding methodology) in the earth sciences. After acceptance by the USGS and Department of the Interior, each standard is published as a USGS circular and sent to NIST as a proposed FIPS. Certain standards proposed as a FIPS are also introduced into the ANSI processes as proposed national standards. The USGS recommends that established standards be used in all new and developing systems. All existing data systems should be modified in accordance with the standards at such time that future redesign or modification to the systems take place. To date, two standards have been accepted at USGS and proposed as FIPS: Codes for the Identification of Hydrologic Units in the United States and the Caribbean Outlying Areas, Geological Survey Circular 878-A, and Specifications for Representation of Geographic Point Locations for Information Interchange, Geological Survey Circular 878-B.

Availability

USGS Public Inquiries Offices; the USGS Branch of Distribution, 604 South Pickett Street, Alexandria, Virginia 22304; the USGS Data Administrator.

Keywords

earth sciences; geology; hydrology; cartography; topography; geography; data processing;

DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY

National Mapping Division
Office of Technical Management
510 National Center
Reston, Virginia 22092
(703) 648-4566

Authority 43 U.S.C. 31, March 3, 1879 (USGS Organic Act)

Implementation Memorandum of Understanding, signed February 1980 by the National Institute of Standards and Technology (NIST) and U.S. Geological Survey (USGS), assign to the USGS key agency responsibility for developing and maintaining earth-science data element and representation standards for use in the federal establishment. The National Mapping Division (NMD) develops and maintains digital cartographic data standards which are promulgated by issuance of Technical Instructions when approved for use within the USGS, and by publication as a Federal Information Processing Standard (FIPS) by NIST when approved for use throughout the federal establishment.

Application Use is mandatory (within the USGS or the federal establishment, depending upon level of approval) for all new and developing systems that utilize data elements and representations described by the standard. All existing data systems will be modified in accordance with the standards when redesign and modifications to the system take place.

Committee Activity The NMD participates in the Federal Interagency Coordinating Committee on Digital Cartography (FICCDC) Standards Working Group which is charged with coordinating and promoting activities for exchanging digital spatial data among federal agencies.

Standardization Activities The USGS has taken the leadership role in the development of the Spatial Data Transfer Standard (SDTS) that will be submitted to NIST for adoption as a FIPS. The SDTS has been produced to meet the need for easy transfer of spatial data from one spatial data handling system to another. The SDTS is being promoted throughout the federal community by FICCDC, and once approved as a FIPS, will be used by the federal government to distribute spatial data.

In addition to supporting the development of data exchange standards, the NMD has assembled and published Technical Instructions, including product standards and data users guides that have been developed to govern the collection, archiving, and distribution of USGS digital cartographic data.

Availability USGS Technical Instructions are available from the Earth Science Information Center, U.S. Geological Survey, 507 National Center, Reston, Virginia 22092, phone (703) 660-6045.

Keywords cartography; geography; digital spatial data; spatial data transfer standard; data processing; SDTS;

DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY

Water Resources Division
417 National Center
Reston, Virginia 22092
1-800-426-9067
WWW: <http://www.usgs.gov>

Authority 43 U.S.C. 31, March 3, 1879 (USGS Organic Act)

Implementation U.S. Geological Survey (USGS) guideline documents for the collection and analysis of surface-water, ground-water, and water quality data include:

USGS Bulletin 17B, Guidelines for Determining Flood Flow Frequency; USGS Water Supply Paper No. 2175, Measurement and Computation of Streamflow; Volume 1. Measurement of Stages and Discharge; USGS Circular 878-A, Codes for the Identification of Hydrologic Units in the United States and the Caribbean Outlying Areas; USGS Water Supply Paper 2294, Hydrologic Unit Maps; USGS Techniques of Water-resources Investigation; and National Handbook of Recommended Methods for Water-Data Acquisition.

Application Standards are voluntarily adopted by the Water Resources Division (WRD). All WRD offices and laboratories are reviewed on a scheduled basis and all quality assurance programs must reference the standards.

Adoption of Nongovernment Standards Numerous nongovernment standards have been adopted by WRD. There is strong support for the development and use of consensus standards related to water resources data collection and analysis as developed by the International Organization for Standardization (ISO), the American Society for Testing and Materials (ASTM), and other groups.

**Committee
Activity**

WRD participates in pertinent committees of the following: Interagency Advisory Committee on Water Data, Coordinating Committees of U.S. Geological Survey (USGS) with each of the following federal agencies: National Oceanic and Atmospheric Administration; Bureau of Land Management; and Environmental Protection Agency; and committees for the American Water Resources Association, National Water Well Association, American Society of Civil Engineers, American Public Health Association, ASTM, ISO, and the World Meteorological Organization (WMO).

**Standardization
Activity**

The USGS, as part of its implementation of OMB Circular M-92-01, has designated the Office of Water Data Coordination (OWDC) within WRD to identify methods used to acquire water data and to recommend methods for use by federal agencies. The OWDC accomplishes this with the advice and guidance of the IACWD. As of 1989, the IACWD, through OWDC, has published 10 chapters of the National Handbook of Recommended Methods for Water-Data Acquisition. The chapters include recommended methods on: 1. Surface Water, 2. Groundwater, 3. Sediment, 4. Biological and Microbiological Quality of Water, 5. Chemical and Physical Quality of Water, 6. Soil Water, 7. Drainage-Basin Characteristics, 8. Evaporation and Transpiration, 9. Snow and Ice, 10. Hydrometeorological Observations. Subcommittees of the IACWD periodically review and update the chapters.

WRD is cooperating with EPA, the Navy, and ASTM to accelerate the development of consensus standards for ground-water data collection, reporting, and analysis. WRD also develops standards, methods, and guidelines in the field of hydrology where no standards exist, to assure the reproducibility of analytical results and to give quality assurance to the programs and studies within WRD. WRD participates in the U.S. Geological Survey's interagency Data Standards Committee that identifies standards used within the agency.

Availability

Government Printing Office, and USGS Water Information Center (1-800-426-9000).

Keywords

hydrology; surface water; ground water; water quality; data processing; public health;

DEPARTMENT OF JUSTICE

NATIONAL INSTITUTE OF JUSTICE

Technology Assessment Program

see **DEPARTMENT OF COMMERCE**

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY

Electronics and Electrical Engineering Laboratory
Office of Law Enforcement Standards

DEPARTMENT OF LABOR

MINE SAFETY AND HEALTH ADMINISTRATION

Office of Standards, Regulations, and
Variances

4015 Wilson Boulevard, Room 627, BT #3
Arlington, Virginia 22203

(703) 235-1910

FAX: (703) 235-5551

e-mail: psiley@msha.gov

WWW: <http://www.msha.gov>

- Authority** 30 U.S.C. 811, November 9, 1977, The Mine Safety and Health Act of 1977, to provide for the health and safety of workers in the mining industry.
- Implementation** Several hundred safety and health regulations are codified in 30 CFR, Chapter I. These requirements include specifications for obtaining approval of certain equipment used in mines, required work practices, and maximum exposure levels to hazardous substances.
- Application** Federal inspectors visit mine sites to see that the health and safety standards are followed, and the standards are also applied through voluntary compliance. The standards also establish procedures and requirements for application within the Mine Safety and Health Administration (MSHA). MSHA also tests for approval and certification of certain products for use in potentially explosive underground mine atmospheres.
- Adoption of Nongovernment Standards** Whenever practicable MSHA adopts nongovernment standards. The majority of these standards have been developed by the American Conference of Governmental Industrial Hygienists (ACGIH), the American National Standards Institute (ANSI), the American Society of Mechanical Engineers (ASME), the National Fire Protection Association (NFPA), and the Society of Automotive Engineers (SAE).

**Qualification,
Certification,
or Calibration**

Manufacturers of certain equipment for use in underground mines with potentially explosive atmospheres must submit their equipment to MSHA for approval and certification.

**Committee
Activity**

MSHA has technical experts who participate on committees of the following: American National Standards Institute; American Conference of Governmental Industrial Hygienists; Institute of Electrical and Electronics Engineers; and National Fire Protection Association.

**Standardization
Activities**

MSHA's standards are directed at improving the occupational safety and health of workers in the mining industry. These standards concern safe work practices, maximum exposure levels to hazardous substances or potentially harmful conditions, and performance criteria for the design of certain types of mining equipment.

Availability

Sold by Government Printing Office. Also available on OSHA-MSHA CD-ROM from the Government Printing Office and on-line through the Department of Labor bulletin board, and through a loose-leaf service offered by the Bureau of National Affairs, the Mine Safety and Health Reporter. Copies of specific standards may also be obtained directly from MSHA.

Keywords

coal mining; metal and nonmetal mining; underground mines; surface mines; equipment approval for gassy mines; energy; industrial equipment; health care; safety; testing;

DEPARTMENT OF LABOR

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

Directorate of Safety Standards Programs, N 3605
200 Constitution Avenue NW.
Washington, DC 20210
(202) 219-8063 FAX: (202) 219-7477

Authority

Occupational Safety and Health Act of 1970, PL 91-596

Implementation

29 CFR Part 1510 -- Occupational Safety & Health Standards for General Industry; 29 CFR Part 1915 -- Occupational Safety & Health Standards for Shipyard Employments;
29 CFR Part 1917-1918 -- Occupational Safety & Health Standards for Marine Terminals; Longshoring;
29 CFR Part 1926 -- Construction Safety & Health Standards;
29 CFR Part 1928 -- Occupational Safety & Health Standards for Agricultural Employments.

Application	Inspection of the workplace
Adoption of Nongovernment Standards	American National Standards Institute (ANSI) National Fire Protection Association (NFPA)
Qualification, Certification, or Calibration	Throughout the OSHA standards, there are requirements for certain equipment to be listed, labeled, or approved by nationally recognized testing laboratories.
Committee Activity	National Advisory Committee on Occupational Safety and Health Standards Advisory Committee on Construction Safety and Health American National Standards Institute National Fire Protection Association American Society for Testing and Materials International Labor Organization
Standardization Activities	<p>The Occupational Safety and Health Administration (OSHA) develops and enforces occupational safety and health standards to provide protection to the nation's workers on their job. The standards are directed at the various hazards in which workers may be exposed. The purpose of the act is "to assure so far as possible every working man and woman in the nation safe and healthful working conditions and to preserve our human resources." OSHA adopted its initial standards on May 29, 1971 and they consisted of national consensus standards and the federal standards that were already in effect under other Department of Labor administered laws.</p> <p>OSHA develops and promulgates occupational safety and health standards and issues regulations necessary for assuring compliance with its standards and regulations. The Directorates of Safety Standards Programs and Health Standards Programs have the main responsibility in carrying out these functions. When either of the Directorates determines a need, on the basis of information submitted by interested parties, scientific data from the field, or experience gained under other health and safety laws, the appropriate Directorate will develop new standards, revoke or modify existing standards using one of two procedures available. All regular proposals to promulgate, modify, or revoke an Occupational Safety and Health standard using the 6(b) procedure must be published in accordance with Administration Procedures Act (APA) requirements in the Federal Register to afford interested parties an opportunity to comment before the standard becomes effective or is revoked. A temporary emergency standards procedure (6^c procedure) may be used to promulgate standards where the APA procedures are waived. Such a temporary emergency standard must be replaced by a 6(b) standard within 6 months.</p>

In developing new standards or modifying standards, the Directorates of Safety or Health Standards determine whether there is a need for the establishment of a standards advisory committee to assist them in the standards setting function. Once it is determined there is a need for a committee, one is appointed which consists of 5 to 15 members and is composed of representatives of management, labor, state and federal governments and the public. Advisory committee meetings are opened to the public and a transcript is made available for public review.

OSHA standards are contained in Title 29 of the Code of Federal Regulations: (1) General Industry, Part 1910, (2) Maritime, Parts 1915, 1917, and 1918, (3) Construction, Part 1926, and (4) Agriculture, Part 1928.

Availability Publications Office, OSHA, and Government Printing Office

Keywords safety; health; environment; electrical equipment; manufacturing; construction; shipyards; agriculture; machinery; business; emergency response;

LIBRARY OF CONGRESS

COLLECTIONS SERVICES

Washington, DC 20540
(202) 707-5325

Authority Collection Services (by authority of the Library of Congress Regulation) has as its mission to develop qualitatively the Library's universal collections, which document the history and further the creativity of the American people, and which record and contribute to the advancement of civilizations and knowledge throughout the world; to acquire, organize, provide access to, maintain, secure, and preserve these collections. In achieving this mission, Collections Services takes part in the development and implementation of standards governing its technical services activities.

Implementation Collections Services voluntarily follows OMB Circular A-119 which specifies the use of voluntary standards developed outside the government and participation in the development of voluntary standards as required for office missions.

**Adoption of
Non-Government
Standards**

The Library of Congress has adopted and applied the following guidelines and publications:

Dewey Decimal Classification: The Library of Congress Decimal Classification Division and Forest Press have agreed to develop and apply the Dewey Decimal Classification at the Library of Congress. The Dewey Decimal Classification schedule is applied on over 100 000 catalog records per year at the Library of Congress. Sixty thousand sets of the unabridged classification have been sold over the life of the edition (currently the 20th, 1989). Librarians choose to use Library of Congress catalog records or apply the schedule themselves (primarily in public and school libraries).

Anglo-American Cataloging Rules: The standard for descriptive cataloging is developed by the international committee representing national libraries (including the Library of Congress for the United States) and the national library associations of Australia, Britain, Canada, and the United States

Library of Congress Rule Interpretations: The second edition (1989) provides a cumulation of all currently valid Library of Congress rule interpretations issued since the Anglo-American Cataloging Rules was published in 1978.

International Standard Bibliographic Description: The standard for the part of descriptive cataloging called bibliographic description is developed by the International Federation of Library Associations and Institutions (IFLA), of which the Library of Congress is a member. It includes a variety of standard numbers, such as International Standard Book Number (ISBN), International Standard Serial Number (ISSN), etc.

Paris Principles: The quasi-standard for that part of descriptive cataloging called access points, it is a set of guidelines adopted by the International Conference on Cataloging Principles held in Paris in 1961.

Library of Congress Subject Headings: The twelfth edition (1989) and monthly updates are developed by the Subject Cataloging Division in Collections Services. It includes over 175 000 authorized subject headings and subdivisions which are accepted as a library standard of "keywords."

Subject Cataloging Manual: Subject Headings: The third edition (1988) provides guidelines for cataloging as practiced by the Subject Cataloging Division of the Library of Congress and explains the rationale for assigning subject headings to specific works.

Subject Cataloging Manual: Shelflisting: Published in 1987, the manual functions as a practical source for shelflisters and catalogers who wish to create call numbers in the spirit of Library of Congress policy and practice. It also describes the procedures to follow when assigning Cutters.

Library of Congress classification schedules: The 45 separate schedules and updates give an authorized classification scheme for the arrangement of library materials by field of study. The Library of Congress system is used primarily by all university libraries, by some college and junior college libraries, and by some public libraries.

Library of Congress Filing Rules: The rules were developed by the Library of Congress to arrange bibliographic records (or catalog cards) in a basic alphabetical arrangement incorporating logic for application in computer files.

Standards developed by American National Standards Committees Z39, Libraries, Information Science, and Publishing, and X3, Information Processing.

Standards developed by International Organization for Standardization (ISO), Technical Committee (TC) 46, Documentation, and TC 97, Computer Information Processing.

The Library of Congress together with the American Library Association develops romanization systems for the major non-Roman alphabet languages. The tables have become the de facto standard of the North American library community.

MARC Formats: The Library of Congress is instrumental in the development of MARC (machine-readable cataloging) formats, which have been adopted as national and international standards. The MARC formats incorporate standards, such as cataloging rules and principles. The formats also include de facto standards for content designators.

Computer Protocols: Assist in establishing library and information community usage profiles.

**Committee
Activity**

Collections Services participates in the committees or organizations responsible for the guidelines and publications listed above including:

- (1) Subject Analysis Committee, Resources and Technical Services Division (RTSD), American Library Association (ALA)
- (2) Committee on Cataloging: Description and Access, RTSD, ALA
- (3) Forest Press Committee
- (4) Decimal Classification Editorial Policy Committee
- (5) Joint Steering Committee for Revision of Anglo-American Cataloging Rules
- (6) NISO, X3, ISO/TC 46, and various related committees and councils
- (7) National Institute of Standards and Technology
- (8) International Serials Data System (ISDS), including its Governing Board and Directors
- (9) Serials Industry Systems Advisory Committee (SISAC)
- (10) Book Industry Systems Advisory Committee (BISAC)
- (11) Machine-Readable Form of Bibliographic Information Committee (MARBI)
- (12) International Federation of Library Associations and Institutions (IFLA)
- (13) Linked System Project (LSP) Committees

**Standardization
Activities**

The Library of Congress:

- has principal responsibility for the development of standards for the interchange of bibliographic records (including the format of the data in those records, coded data such as language and country codes, character sets, and works with others on communication protocols);
- acts as the maintenance agency in the United States for the International Standard Serial Number standard and cooperates with the maintenance agency in the United States in the use of accurate International Standard Book Numbers;
- acts as maintenance agency for information retrieval protocol;

- is active in developing standards for data in bibliographic records, such as holding statements for serial publications;
- formulates official Library of Congress interpretations of cataloging rules; and
- distributes products of standardized cataloging and bibliographic activities in these formats: catalog cards, MARC tapes, book catalogs, sound recordings, microfiche, and CD-ROMs.

Availability

Many of the publications listed above are available from the Library of Congress' Cataloging Distribution Service.

Manual on the Use of the Dewey Decimal Classification: Edition 20 and related publications are sold by Forest Press, 85 Watervliet Avenue, Albany, N.Y.

The Anglo-American Cataloging Rules, 2nd edition are sold by the American Library Association.

Other standards are available from their developers.

Keywords

Dewey Decimal Classification; library classification; classification; libraries; cataloging; subject headings; thesaurus; language codes; Anglo-American Cataloging Rules; bibliographic control; MARC tapes; catalog cards; bibliographic data formats; ISSN; communication protocols; character sets; information processing;

LIBRARY OF CONGRESS

INFORMATION TECHNOLOGY SERVICES

10 First Street, SE
Washington, DC 20540
(202) 707-5114

Implementation

The Library of Congress (LC) pilot program began service operations in 1984, involving all forms of optical disks. A task was established to track the emerging standards in this area, document and identify those areas in which the lack of standards presents problems in information interchange on optical disk, and share findings with other research libraries and related institutions with which the Library would be likely to engage in such information interchange. The library has been represented on the ANSI-accredited standards committee X3B11 on Optical Digital Data Disks since its formation in April 1984 and has participated in international standards developments on the ISO SC 23 committee

Availability An aperiodic series of reports are planned as well as publication of findings in the open literature.

Keywords optical disk; videodisc; digital storage; magneto-optical disks; information processing; optics;

LIBRARY OF CONGRESS

**NATIONAL LIBRARY SERVICE FOR THE BLIND AND
PHYSICALLY HANDICAPPED**

1291 Taylor Street, NW
Washington, DC 20542
(202) 707-5100

Implementation (1) Published the guidance document, Published Approved Recommendations on Working Out National Standards of Library Service for the Blind, August 1983. This was compiled and adopted by the Standards Development Committee, Section of Libraries for the Blind, International Federation of Library Associations.

(2) Published the guidance document Standards of Service for the Library of Congress Network of Libraries for the Blind and Physically Handicapped, revised 1984. This was developed and adopted by the Association of Specialized and Cooperative Library Agencies, a division of the American Library Association.

Application The recommendations on Working Out National Standards are used by member countries in developing library service to the blind and in promoting international standards of service. The Standards of Service are used in evaluating the quality of library service provided by each library in a cooperating network either through self-evaluation or on-site inspections by representatives of the Library of Congress (LC), National Library Service for the Blind and Physically Handicapped (NLSBPH).

Committee Activity American Library Association, Committee on Standards.

Standardization Activities Reviews and approves proposed and existing standards for continued relevance to the state of library development and service for the blind and physically handicapped.

Availability (1) On request from Executive Secretariat, Office of the Director, National Library Service for the Blind and Physically Handicapped, at the address above.

(2) Sold by the American Library Association, 50 E. Huron Street, Chicago, Illinois 60611.

Keywords library service; library networks; blindness; physical handicaps; social welfare;

LIBRARY OF CONGRESS

PHOTODUPLICATION SERVICES
Washington, DC 20540
(202) 707-5650

Application Photographic standards are specified in various conversion programs for preservation. Bibliographic standards are followed in appropriate divisions to promote more efficient transmission of information. Standards work for permanence of paper for printed library materials is a part of the Library's National Preservation Program.

Adoption of Nongovernment Standards All new and revised ANSI PH1-5 standards (and those succeeded by IT9) are required for all preservation and conservation work involving photography. ANSI/AIIM standards are used for microphotography. ANSI/NISO standards are adopted for bibliographic and information-related work.

Committee Activity Various staff members serve on American National Standards (ANSI) committees and subcommittees, especially those dealing with photographic materials in PH1, PH4, and PH5 (some PH1 standards now are designated as IT9), as well as the Association for Information and Image Management (AIIM) which deals with microphotography and micrographics. In addition, staff members have participated in Z30 and Z39 standards activities, which involves, respectively, library work and publishing practice, and bibliographic description of microforms, serials, and technical reports, plus paper for printed library materials.

Standardization Activities As members of the committees listed above, staff members view and vote on the adoption of standards in those areas. Because no standards existed for micrographic reproduction when the Library of Congress had need of such standards, four specifications were developed for the microfilming of newspapers, books and pamphlets, library catalog cards, and manuscripts. The newspaper specification has since become ANSI/AIIM MS111-1987, Recommended Practice for Microfilming Printed Newspapers on 35mm Roll Microfilm.

Availability All Library of Congress microphotographic specifications have been reprinted and are available from the Association for Information and Image Management, 1100 Wayne Avenue, Silver Spring, Maryland 20910.

Keywords reprographics; document reproduction; micrographics; preservation microfilming; photography; information processing;

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

OFFICE OF THE CHIEF ENGINEER

Code AE
NASA Headquarters
Washington, DC 20546-0001
(202) 358-1823

Authority Title 10, USC Chapter 145

Implementation Standards and Handbooks are developed as guidance for engineering design, analysis and test for space systems and associated ground support. Standards are developed to enhance commonality and interoperability among performing organizations and to make experience from past programs available for new systems. Documents are issued as NASA Engineering Standards.

Application Standards are available as technical guidance for both internal programs and those carried out under contract for spacecraft, launch systems and associated ground support equipment. Provisions of the standards are intended to be tailored to meet specific program needs except as specified for safety critical provisions.

Adoption of Nongovernment Standards Nongovernment standards from organizations such as ASTM, ASME, IEEE, IPC and others frequently cited in program specifications. A process for formal adoption of nongovernment standards is in development

Qualification, Certification or Calibration Qualification and certification activities are conducted only for support of internal programs, except that certification is provided for facilities performing flammability and fluid compatibility testing of materials flown on NASA space missions using the test procedures of NASA NHB 8061.1.

Committee Activity NASA technical experts participate in standards making activities of the Department of Defense; nongovernment standards bodies including ANSI, AIAA, ASME, ASTM, IEEE, IPC, and SAE; and international standards committees of the ISO.

Standardization Activities NASA Engineering Standards are developed to enhance comparability and interoperability in system design and to make available experience from previous programs for new design. Standards are developed in the areas of structural and mechanical design, test requirements, materials and processes, ground support equipment and human factors.

Availability Office of the Chief Engineer at the address above.

Keywords spacecraft; space systems; structural design; materials; processes; human factors;

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

OFFICE OF SAFETY AND MISSION ASSURANCE

Code Q
 NASA Headquarters
 Washington, DC 20546
 (202) 358-2406

Authority Title 10, USC Chapter 145

Implementation NASA Assurance Standards (NAS's) are developed by NASA to provide specific guidance for Safety, Reliability, Availability, Maintainability, and Quality Assurance activities. The NAS's are prepared by NASA for use in programs and processes specifically dealing with space flight operations and hardware.

Application Guidance for application of standards to internal and contracted programs is provided in NASA Policy. Each specific program defines which standards are to be used and how the activity will insure correct implementation of the standards.

Adoption of Nongovernment Standards NASA has adopted the ISO 9000 series of quality management systems standards as a baseline Quality Management System. NASA efforts continue in the adoption of other nongovernment standards and practices which meet the Safety, Reliability and Quality Workmanship requirements for space flight, operations and processes.

Qualification, Certification or Calibration NASA conducts no Qualification, Certification, or Calibration Programs. NASA does perform internal audits of parts manufacturing processes and produces audit reports that are available to the public.

Committee Activity NASA is involved in many industry and interagency standards committees including: Space Parts Working Group; Government/Industry Quality Liaison Panel; ISO TC 176 U.S. TAG; and the Electronic Industries Association G-48 Committee.

Standardization Activities NASA develops NAS's which address unique requirements for Manned Space Flight systems, facility operations, and workmanship requirements. Safety NAS's address areas such as: Flight and Ground Systems including Ground Pressure Systems, Pressure Vessels, and Propulsion Systems. Workmanship NAS's address electronic fabrication and related activities. Software NAS's provide guidance in the development of software and requirements. NASA does not write standards for electronic parts but is an active participant in the Defense Electronics Supply Center, Qualified Manufacturers List (QML) and Qualified Parts List (QPL) certifications. MIL-STD 975, for which NASA is the preparing activity, is used as a section list for NASA Electrical, Electronic and Electromagnetic (EEE) parts. NASA coordinates and uses QML MIL-PRF-38534 Hybrid Circuits, QML MIL-PRF-38535 Microcircuits, and QPL MIL-S-19500 semiconductors, as acceptable references for qualified parts, test and performance data and selection criteria for electronic parts that have been used in NASA programs are available on the Internet.

Availability NASA Assurance Standards are available from the Government Printing Office and from the NASA Technical Information System. Additional information on the EEE parts used in NASA programs can be found on the Internet at: <http://nppp.jpl.nasa.gov>

Keywords aerospace; safety; reliability; availability; maintainability; quality assurance; electronic; electrical; electromagnetic; electrical parts;

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

OFFICE OF SPACE COMMUNICATIONS

Code OI
 NASA Headquarters
 Washington, DC 20546-0001
 (202) 358-2024

Authority NASA Management Instruction 8074.1A, Data Systems Standards: Compliance In Flight Project Development

Implementation Data standards for NASA space flight programs are developed through the Consultative Committee for Space Data Systems (CCSDS) by agreement between eight international space agencies to develop space data communication standard recommendations that enable the cross support of satellites by conforming ground terminals.

Application CCSDS recommendations are implemented through incorporation in development contracts for satellites and ground terminals.

Adoption of Nongovernment Standards Current Space Communication Protocol Standards (SCPS) efforts within CCSDS based on Internet File Transfer modified for the space communication environment.

Committee Activity CCSDS has three Panels which develop data standards involving space to earth communication, data communication and archiving, and ground terminal communication interfaces. NASA participates in ISO TC 20, SC 13 began in 1990. Thirteen of the current twenty CCSDS recommendations have been adopted as ISO standards. Concentration has been on communication and data handling protocols that enable the cross support of international spacecraft with conforming ground communication and data handling resources of other space agencies. Current work is focused on improving the efficiency in the space to ground communication link and developing international standards for archiving of spacecraft data.

Standardization Activities CCSDS was established as an international space data communication standards body in 1982. Adoption of standards into ISO TC 20, SC13 began in 1990. Thirteen of the current twenty CCSDS recommendations have been adopted as ISO standards. Concentration has been on communication and data handling protocols that enable the cross support of international spacecraft with conforming ground communication and data handling resources of other space agencies. Current work is focused on improving the efficiency in the space to ground communication link and developing international standards for archiving of spacecraft data.

Availability CCSDS recommendations are available on-line on the World Wide Web at: http://www.gsfc.nasa.gov/ccsds/ccsds_home.html. They are distributed in hardcopy form by the CCSDS Secretariat through the NASA Office of Space Communications. ISO standards are available from ISO, its national member bodies, and IHS.

Keywords

data archiving; data systems; data telemetry; ground terminal;
space communications; telecommand; packet telemetry;

NUCLEAR REGULATORY COMMISSION

NUCLEAR REGULATORY RESEARCH

TWEN, 10F12
Washington, DC 20555
(301) 415-6641 FAX: (301) 415-5153
WWW: <http://www.nrc.gov>

**Adoption of
Nongovernment
Standards**

Many Nuclear Regulatory Commission (NRC) guides refer to or endorse national standards that are developed by recognized national organizations, e.g., ANSI, ASTM, ASME, often with NRC participation. NRC makes use of a national standard in the regulatory process only after an independent review by the NRC staff and after public comment on NRC's planned use of the standard has been reviewed.

**Committee
Activity**

NRC participates on more than 300 interagency, non-governmental, and international standards committees. The NRC staff is active in national standards programs, particularly with respect to setting priorities. NRC participation derives from a need for national standards to define acceptable ways of implementing the NRC's basic safety regulations. Approximately 200 NRC staff members serve on working groups organized by technical and professional societies.

**Standardization
Activities**

NRC standards are primarily of two types -- Regulations and Regulatory Guides.

Regulations set forth requirements that must be met by NRC licensees in Title 10, Chapter I, of the Code of Federal Regulations. When NRC proposes new or amended regulations, they are normally published in the Federal Register to allow interested persons or organizations time for comment before they are adopted. This is required by the Administrative Procedures Act. Following the public comment period, the regulations are revised, as appropriate, to reflect the comments received. Once adopted by the NRC, they are published in the Federal Register in final form, with the date they became effective. After that publication, rules are codified and included annually in the Code of Federal Regulations.

Regulatory Guides are issued to describe and make available to the public such information as methods acceptable to the NRC staff for implementing specific parts of the Commission's regulations, techniques used by the staff in evaluating specific problems or postulated accidents, and data needed by the staff in its review of applications for permits and licenses. Regulatory Guides are

not substitutes for regulations, and compliance with them is not required.

The guides are issued in the following ten broad divisions: Power Reactors, Research and Test Reactors, Fuels and Materials Facilities, Environmental and Siting, Materials and Plant Protection, Products, Transportation, Occupational Health, Antitrust and Financial Review, and General. NRC issues the guides for public comment in draft form before an official staff position has been established. Regulatory guides may also be withdrawn when changes make them obsolete.

Keywords energy; nuclear; reactors; environment; radiation; safety;

POSTAL SERVICE, U.S.

Marketing Department
475 L'Enfant Plaza, SW
Washington, DC 20260-6300
(202) 268-5185

Authority 39 U.S.C.: 101, 401, 403, 404, 407, 3001-2, 3621-84

Implementation Standards for mail are included in the Domestic Mail Manual and the International Mail Manual, published by the U.S. Postal Service.

Standards for producing letter size and flat size mail which is properly designed and addressed for successful sorting on automated processing equipment are contained in two publications from the U.S. Postal Service; Publication 25, Designing Letter Mail, Publication 28, Postal Addressing Standards, Publication 63, Designing Flat Mail, Publication 353, Designing Reply Mail.

Application Mail standards are applied by trained postal employees verifying compliance at the point the mail enters Postal Service custody. Trained postal employees also provide information on mail standards to mailers who produce large mailings and to suppliers of mailing materials to the public.

Adoption of Nongovernment Standards There are no nongovernment generated standards for mail. Standards for international mail generally are produced through agreement according to procedures set by the international postal body, the Universal Postal Union (UPU). Standards for domestic mail generally are developed in consultation with the mailing industry body, the Mailers Technical Advisory Committee (MTAC), and may be subject to approval by the independent Postal Rate Commission prior to implementation. Mail standards have a direct relationship to postal rates; standards are used to define mail classes and rates are set according to mail classes.

**Qualification,
Certification,
or Calibration**

There are no requirements for qualification, certification, or calibration related to mail standards. Assistance in determining compliance with the standards is available through all large city post offices. Requests for assistance and testing on automated equipment should be directed to a postal Mailpiece Design Analyst or Account Representative at those locations.

**Committee
Activities**

The U.S. Postal Service participates in UPU and MTAC committees involved in mail standards.

**Standardization
Activities**

The U.S. Postal Service standardization activities involve the UPU, MTAC, and the Postal Rate Commission.

Availability

The Domestic Mail Manual and the International Mail Manual are available as a subscription sold by the Government Printing Office. Publications 25, 28, 63 and 353 are available, without cost, through all city post offices. Requests for the documents may be directed to any postal marketing representative.

Keywords

mail; addressing; address format; OCR readability; barcoding; information processing; business; communications; classification;

DEPARTMENT OF STATE

**U.S. INTERNATIONAL TELECOMMUNICATIONS ADVISORY
COMMITTEE FOR STANDARDIZATION**

Bureau of Economic and Business Affairs
Office of International Communications and
Information Policy
Room 5820 N.S.
2201 C Street, NW
Washington, DC 20520
(202) 647-0197 FAX: (202) 647-7407

Application

Voluntary standards (ITU-T Recommendations formerly CCITT Recommendations) for telecommunications equipments, networks, services and tariffs are issued by the International Telecommunications Union, a specialized agency of the United

Nations, for use by each nation, according to its needs and laws. The current ITU-T Recommendations (standards) cover more than 60 000 pages through the 1996 ITU-T Plenary cycle being completed in October 1996 at the World Telecommunications Standardization Conference, Geneva.

**Adoption of
Nongovernment
Standards**

Within the United States, the vast majority of telecommunications standards are produced by industry participants and organizations. Typical of these organizations are AT&T, MCI Telecommunications, NYNEX, Bell South, the IEEE, TIA, ITI, and ANSI T1 Committee. Twenty-three government agencies participate in these organizations as active players and users.

**Committee
Activity**

Industry participants with an interest in telecommunications may join the ITU-T and/or the U.S. ITAC-T National Committee at their own initiative, under the authority of the Department of State which represents the United States as the Telecommunications Administration in the treaty organization - the ITU. They may also petition the FCC for recognition as a Recognized Operating Agency and may choose to join the ITU-T and/or the U.S. National Committee through the Department of State.

The U.S. National Committee Study Groups develop technical, operational and tariff contributions from U.S. industry (both government and private sector) for approval and submission to the ITU-T as U.S. contributions. The U.S. Delegation to the ITU-T is usually chaired by a representative of the Department of State. The chair speaks for the United States at the international sessions and meetings of the ITU-T where the final version of the Recommendations (voluntary standards) are negotiated.

**Standardization
Activities**

Telecommunications voluntary standards may be initiated by a person or company primarily through one of the U.S. technical committees, such as ANSI T1, CTIA, TIA, etc. (many contributions - mostly non-technical - begin their process directly at the U.S. ITAC-T Study Group level). These contributions are developed to maturity by these bodies, and are submitted for consensus vote in their respective arenas. They are then submitted by a company, committee, or person to the U.S. National Committee for consensus at the United States National Committee level. With consensus, the contribution becomes a U.S. source document for the attention of the appropriate ITU-T Study Group. The nations of the ITU-T will develop the standard further and finally arrive at consensus at an international meeting. The contribution then becomes a ITU-T Recommendation.

Availability The ITU-T Recommendations are sold by the ITU in paper and electronic media and via the Internet at <http://www.itu.ch/>. They are also available from distributors and information centers.

Keywords telecommunications; telephone; data communications; Integrated Services Digital Network; ISDN; telematics; ITU; call-back; telephone accounting rates; international numbering;

DEPARTMENT OF TRANSPORTATION

FEDERAL AVIATION ADMINISTRATION

Flight Standards Service
800 Independence Avenue, SW
Washington, DC 20591
(202) 267-8237 FAX: (202) 267-5230

Authority The Federal Aviation Administration (FAA) was created under Title 6 of the Federal Aviation Act of 1958 to provide for the regulation and promotion of civil aviation in such a manner as to best foster its development and safety, and to provide for the safe and efficient use of the airspace by both civil and military aircraft. The Federal Aviation Regulations are promulgated under Title 14 of the Code of Federal Regulations. The first regulation and civil aviation standards originated with the passage of the Air Commerce Act of 1926.

Implementation FAA standards are either regulatory or nonregulatory in nature. Those in the former category are found in the various numbered parts of the Federal Aviation Regulations (FAR's) and, as such, are subject to review in accordance with the Administrative Rule-making Procedures in which the public participates. Regulatory announcements and Notices of Proposed Rulemaking are published in the Federal Register. The nonregulatory standards generally contained in the FAA Advisory Circulars (AC's) serve principally as the means of providing safety information to the public with respect to aircraft operations or a related aeronautical interest. Nonregulatory circulars also provide the public with guidelines in meeting regulatory requirements.

Standardization Activities Regulations and standards are developed and administered by various offices and services within FAA. Flight Standards Service is responsible for most of the regulatory material which includes the certification, operations, and maintenance of aircraft, engines, propellers, and aircraft equipment; licensing of airmen and airman aeromedical standards; for aircraft operational procedures, and the certification of

schools, repair stations, and parachute lefths; and for airport and air carrier security. The Air Traffic Service is responsible for regulations and standards governing airspace utilization, air traffic control and procedures, and for the establishment and installation of navigational facilities. The Associate Administrator for Airports is responsible for regulations and standards concerning airport certification and airport grants; and the Associate Administrator for Policy and International Aviation for aircraft noise standards.

Availability The Federal Aviation Administration periodically publishes a revised Advisory Circular Checklist (AC00-2) and Status of the Federal Aviation Regulations (AC00-44) which list current AC's and FAR's. These may be obtained free of charge from the address above. Regulations may be purchased from the Government Printing Office.

Keywords aviation; aircraft; engines; air traffic control; airports; noise; environment; transportation; safety;

DEPARTMENT OF TRANSPORTATION

FEDERAL HIGHWAY ADMINISTRATION

Office of Engineering HNG-1
400 7th Street, SW
Washington, DC 20590
(202) 366-4853 FAX: (202) 366-3713

Authority 23 U.S.C. 106, 109, 112, 114, 116, 315 and 402; 49 CFR 1.4t (b) unless otherwise noted Source 43 FR16832, May 7, 1986 unless otherwise noted.

Implementation 23 CFR Part 625 - Design Standards for Highways

Application Construction, maintenance, materials, and contracting regulations, standards, and practices are applicable to all federally funded highway projects both on and off the national highway system. Projects may be administered by the Federal Highway Administration, state highway agency, or local governments. Application and compliance of accepted standards and specifications is assured by on-site inspection, process and product reviews and other management techniques.

Adoption of Nongovernment Standards The Federal Highway Administration actively participates with industry and state highway agency organizations in the development and implementation of highway construction, material, and maintenance standards and

specifications. Of the 46 publications and references noted in 23 CFR, Part 625, 31 were developed by American Association of State Highway and Transportation Officials (AASHTO); one by the American Welding Society; and three by the Transportation Research Board and the remaining 11 are Federal Highway Administration publications or references.

**Committee
Activity**

The Federal Highway Administration is actively involved in industry/state highway agency organizations which develop the national standards cited in the CFR. Committees include both management and technical functions of the American Association of State Highway and Transportation Officials, American Society for Testing and Materials, Institute of Traffic Engineers, American Society of Civil Engineers, National Society of Professional Engineers, and American Road and Transportation Builders Association, etc.

**Standardization
Activities**

The Federal Highway Administration administers the federal-aid highway program and continuity of the national highway network from a third party approach. Although seldom the contracting authority, by serving as the nucleus for the highway industry, the Federal Highway Administration assures reasonable standardization without stymieing creativity and new methods development. This approach allows the state highway agency and local governments the maximum flexibility practical while still attaining national uniformity.

Actual project standards/specifications are developed by each administering agency (state or local) and are reviewed and approved by the Federal Highway Administration. The general guidance provided by the above noted standards is used as a basis for the locally developed standards/specifications.

Availability

Federal Highway Administration, Government Printing Office, American Association of State Highway and Transportation Officials, and local/state highway agencies.

Keywords

highways; bridges; construction; materials; contracting; traffic control; safety; transportation;

DEPARTMENT OF TRANSPORTATION

FEDERAL HIGHWAY ADMINISTRATION

Office of Environmental Policy
400 7th Street, SW
Washington, DC 20590
(202) 366-2045

- Authority** 23 U.S.C 109(I) - The Federal-Aid Highway Act of 1970 requires that noise be considered in the development of new highway projects and that standards for highway noise levels compatible with various land uses be developed and implemented.
- Implementation** The noise standards mandated by 23 U.S.C 109(I) are codified in 23 CFR, Part 772. The standards provide procedures for noise studies and noise abatement measures to help protect the public health and welfare, supply noise abatement criteria, and establish requirements for information to be given to local officials for use in the planning and design of highways approved pursuant to Title 23, United States Code (U.S.C.).
- Application** The standards apply to any proposed federal or federal-aid highway project for the construction of a highway on new location or the physical alteration of an existing highway which significantly changes either the horizontal or vertical alignment or increases the number of through-traffic lanes. They also apply to any proposed federal or federal-aid project for noise abatement on an existing highway.
- Committee Activity** The Federal Highway Administration participates in pertinent committees of the American Association of State Highway and Transportation Officials, Transportation Research Board, and Society of Automotive Engineers.
- Standardization Activities** The Federal Highway Administration (FHWA) is active in the preparation and implementation of highway traffic noise and construction noise standards for the planning, design, and construction of federal-aid funded highways. These highways are constructed by state and local highway agencies.
- The FHWA coordinates the preparation of the standards with the Environmental Protection Agency, other federal agencies, the states, and the public.
- Availability** Code of Federal Regulations, Title 23, part 772 is available from the Government Printing Office.

Keywords highways; traffic; construction; land use; pollution; environment; noise control; transportation;

DEPARTMENT OF TRANSPORTATION

FEDERAL HIGHWAY ADMINISTRATION

Office of Motor Carriers HIA-1
400 7th Street, SW
Washington, DC 20590
(202) 366-4039 FAX: (202) 366-3518

Authority Authority to regulate the qualifications and maximum hours of service of employees, the licensing standards for commercial drivers, and safety of operations and equipment is specified in 49 U.S.C. 3102, 3104, and 49 U.S.C. App. 2505, 2701-2716.

Authority to regulate the transportation of hazardous materials is provided by the Hazardous Materials Transportation Act - 49 U.S.C. 1801-1813.

Authority to enforce EPA noise control standards applicable to interstate motor carriers is specified in the Noise Control Act - 42 U.S.C. 4917.

Authority to require motor carriers to maintain minimum levels of financial responsibility is specified in 49 U.S.C. 10927 note.

Authority to establish certain federal size limits for commercial motor vehicles is provided by the Surface Transportation Act of 1982 - 49 U.S.C. App. 2311, 2316.

Authority to penalize states that fail to enforce federal weight limits on the Interstate Highway System is specified in 23 U.S.C. 127.

Implementation Mandatory regulations are codified in Title 49 and 23 of the Code of Federal Regulations. The rules in Title 49 range from the Federal Motor Carrier Safety Regulations (FMCSRs) [Parts 390-399], including the hours of service of drivers [Part 395], to compliance with interstate noise emission standards [Part 325], minimum levels of financial responsibilities [Part 387], and the transportation of hazardous materials [Parts 171-173, 177-178]. They cover interstate motor carriers of passengers and property, as well as their vehicles and drivers.

In addition, Commercial Drivers's License (CDL) standards are codified in 49 C.F.R. Part 383 and apply to states, employers, and all drivers of commercial motor vehicles having a gross vehicle weight rating over 26 000 lbs., designed to carry 16 or more persons, or needing placarding for hazardous materials. Unlike

other Parts of the FMCSRs, the CDL regulations apply without distinction to inter- and intrastate transportation. CDL provisions include a prohibition on multiple licenses; testing and licensing procedures which states and drivers must follow; employer responsibilities; mandatory driver disqualifications for alcohol, drug, and other serious traffic violations and felonies; and a nationwide information clearinghouse on commercial drivers.

Vehicle size and weight regulations and state certification requirements are codified in 23 C.F.R. 657-658. These include regulation of vehicle lengths and widths on the National Network for large trucks (published in Appendix A to Part 658) which consists of the Interstates and other designated federal-aid primary highways.

Application

Office of Motor Carrier Safety specialists conduct safety and compliance reviews of motor carriers and hazardous materials shippers. They also conduct roadside inspections of vehicles and of drivers' required paperwork. Vehicles and/or drivers not in compliance with the FMCSRs are placed out of service where certain hazards to safety increase the likelihood of an accident.

Office of Motor Carriers transportation specialists review state compliance with the CDL program as well as states' certifications that they are enforcing federal size and weight limits and all state laws on federal-aid highways in the state.

Availability

FHWA regulations are available from the Government Printing Office and several private organizations.

Keywords

commercial motor vehicles; motor carrier; commercial drivers license; hazardous materials; bus; truck; driver qualifications;

DEPARTMENT OF TRANSPORTATION

FEDERAL HIGHWAY ADMINISTRATION

Office of Traffic Operations
400 7th Street, SW
Washington, DC 20590
(202) 366-0411

Authority 23 U.S.C. 109, Standards, December 20, 1944, the Federal-Aid Highway Act of 1944.

Implementation 23 CFR 655, Subpart F, Traffic Control Devices on federal-aid and other streets and highways. A set of national standards have been developed and approved by the Federal Highway Administrator in cooperation with the state highway agencies. These standards are contained in the Manual on Uniform Traffic Control Devices (MUTCD). The Federal Highway Administration will only approve state or other federal agency MUTCDs (or supplements) that are in substantial conformance with the national MUTCD.

Application The standards contained in the MUTCDs apply to all highways open to public travel.

Committee Activity The MUTCD was developed with cooperation of the:
National Committee on Uniform Traffic Control Devices
American Association of State Highway and Transportation Officials
Institute of Transportation Engineers
National Committee on Uniform Traffic Laws and Ordinances
National Association of Counties
National Association League of Cities
National Association of Governors' Highway Safety Representatives
International Association of Chiefs of Police, Inc.
National Electrical Manufacturers Association
American Road and Transportation Builders Association
International Bridge, Tunnel, and Turnpike Association

Standardization Activities

Existing Highways -- Each state, in cooperation with its political subdivisions, and federal agencies shall have a program which shall include provisions for the systematic upgrading of substandard traffic control devices and for the installation of needed devices to achieve conformity with the MUTCD.

New or Reconstructed Highways -- federal-aid projects for the construction, reconstruction, resurfacing, restoration, or rehabilitation of streets and highways shall not be opened to the public for unrestricted use until all appropriate traffic control devices, either temporary or permanent, are installed and functioning properly. Both temporary and permanent devices shall conform to the MUTCD.

Construction Area Activities -- All traffic control devices installed in construction areas shall conform to the MUTCD.

Availability The MUTCD is available from the Government Printing Office

Keywords traffic control devices; curb and pavement markers; regulatory signs; warning signs; public safety; transportation;

DEPARTMENT OF TRANSPORTATION

MARITIME ADMINISTRATION

Office of Ship Construction
400 Seventh Street, SW
MAR-720, Room 2109
Washington, DC 20590-0001
(202) 366-1800

Authority The development of guidance specifications for ship construction was first authorized May 20, 1960 by the Federal Maritime Board.

Implementation There are three shipbuilding guidance specifications which are for voluntary use: (1) Standards Specifications for Merchant Ship Construction PB 290490; (2) Standards Specifications for Diesel Merchant Ship Construction PB 257261; (3) Standards Specifications for Slow Speed Diesel Merchant Ship Construction. A new publication entitled "Guideline Specifications for Merchant Ship Construction" as well as an Executive Summary of it are currently being prepared for publication.

Application The guidance specifications are for voluntary use by the maritime industry.

Adoption of Nongovernment Standards Those referred to include: American Society for Testing and Materials (ASTM), American Society of Mechanical Engineers (ASME), Heat Exchange Institute, American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE) and, International Organization for Standardization.

Qualification, Certification, or Calibration None

Committee Activity American Society for Testing and Materials

Standardization Activities Active in the preparation of consensus shipbuilding standards through ASTM.

Availability National Technical Information Service, and/or the Maritime Administration

Keywords shipbuilding specifications; transportation; merchant ships;

DEPARTMENT OF TRANSPORTATION

NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

see DEPARTMENT OF COMMERCE

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY

Electronics and Electrical Engineering Laboratories
Office of Law Enforcement Standards

DEPARTMENT OF TRANSPORTATION

RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION

Office of Pipeline Safety, Technology and Regulations
400 7th Street, SW
Room 2335
Washington, DC 20590
(202) 366-4046 FAX: (202) 366-4566

Authority Natural Gas Pipeline Safety Act of 1968 (49 U.S.C. 1671 et seq.)
Hazardous Liquid Pipeline Safety Act of 1979 (49 U.S.C. 2001 et seq.)

Implementation Standards for pipelines that carry natural gas or gas that is flammable, toxic, or corrosive are in 49 CFR, Part 192.
Standards for liquefied natural gas (LNG) plants are in 49 CFR, Part 193.
Standards for interstate pipelines carrying hazardous liquids, such as petroleum, petroleum products, or anhydrous ammonia are in 49 CFR, Part 195.
Regulations to require an anti-drug program for pipeline & LNG plant employees that perform operation, maintenance and emergency-response functions are in 49 CFR, Part 199.

Application Standards are binding on pipeline operators by law. Federal and state inspectors visit operators' facilities to check on compliance.

Adoption of nongovernment standards The federal standards incorporate by reference parts of nongovernment developed standards, principally API, ASME, ASTM, ANSI and NFPA.

Committee Activity The Office of Pipeline Safety sponsors two advisory committees: The Technical Pipeline Safety Standards Committee and the Technical Hazardous Liquid Pipeline Safety Standards Committee. These committees advise on proposed rule making activities.

Staff members participate in or are members of various nongovernment standards setting committees, including those of the ASME, API, and NFPA.

Standardization Activities Standards cover design, construction, operation, and maintenance of pipelines. Benefits derive from savings in life and property damage, including environmental damage in the case of oil spill prevention. Original standards were based on standards widely followed by industry. Subsequent efforts have been directed toward improvements needed for safety as demonstrated by accident statistics, and toward changing regulations that are not cost beneficial.

Availability Sold by Government Printing Office, and very small quantities available from Office of Pipeline Safety

Keywords safety; gas; hazardous liquids; pipeline; LNG plants; design; construction; operation; maintenance; corrosion control; transportation; drugs; petroleum;

DEPARTMENT OF TRANSPORTATION

UNITED STATES COAST GUARD

Office of Marine Safety, Security and Environmental Protection
 2100 Second Street SW.
 Washington, DC 20593-0001
 (202) 267-0030 FAX: (202) 267-4816

Authority Maritime shipping laws related to vessels and seamen are codified and enacted into positive law as Subtitle II of Title 46, United States Code, 2101 through 13110.

Implementation Mandatory standards for commercial vessel construction and operation, as well as manning and personnel licensing, are codified in 46 and 33 CFR. Program is administered under the direction of the Chief, Office of Merchant Marine Safety, U.S. Coast Guard (USCG)

Headquarters. A system of district and local port offices (marine safety offices/officers in charge, marine inspection) provide inspection and licensing services to assure compliance with the standards and regulations by shipyards, vessel operators, and merchant mariners.

Application

USCG inspectors periodically inspect commercial, foreign, and domestic vessels to assure compliance.

**Adoption of
Nongovernment
Standards**

USCG commercial vessel safety regulations incorporate a wide variety of nongovernment standards by reference.

**Committee
Activity**

The Office of Merchant Marine Safety, Security and Environmental Protection participates in those standards developing committees whose standards are used by, or affect, the merchant marine. These include the International Maritime Organization (IMO), ISO, and IEC, as well as the Society of Naval Architects and Marine Engineers (SNAME), American Bureau of Shipping (ABS), ASTM, ASME, API, UL, and a dozen other domestic organizations.

**Standardization
Activities**

USCG commercial vessel safety standards are incorporated into the United States Code of Regulations, Titles 46 and 33. The marine inspection program's regulatory approach includes active participation in voluntary standards programs. By actively participating in voluntary standards, the Coast Guard raises issues of public interest and can speak for the public in matters of safety. Also, where industry or owners have not set necessary safety requirements, the Coast Guard can catalyze their development.

Availability

Sold by Government Printing Office

Keywords

ship design; safety; environment; hazardous material; marine engineering; naval architecture; inspection; stability; fire protection; merchant marine; transportation;

DEPARTMENT OF TRANSPORTATION

UNITED STATES COAST GUARD

Recreational Boating Product Assurance Branch (G-NAB-6) Auxiliary,
Boating, and Consumer Affairs Division

Washington, DC 20593-0001

(202) 267-0984

FAX: (202) 267-4285

Authority Federal Boat Safety Act 1971 (46 U.S.C. 43)

Implementation Standards issued to date are in 33 CFR Part 183 and include:

- (1) Display of Capacity Information
- (2) Safe Loading
- (3) Safe Powering
- (4) Basic Flotation
- (5) Level Flotation
- (6) Electrical Systems
- (7) Fuel Systems
- (8) Ventilation
- (9) Start-In-Gear Protection

Application Boating safety standards are published as mandatory rules in accordance with the Administrative Procedures Act (APA). Final rules become a part of the Code of Federal Regulations. Each proposed rule and each final rule is published in the Federal Register.

Committee Activity Staff members serve on various committees of the American Boat and Yacht Council, Society of Automotive Engineers, National Fire Protection Association, and American Bureau of Shipping.

Standardization Activities The Auxiliary, Boating, and Consumer Affairs Division is responsible for the development of regulations related to boating safety. The Recreational Boating Product Assurance Branch of the division is responsible for the development of safety standards for recreational boats and associated equipment. Safety standards must be based upon a demonstrated need. This need is frequently related to research involving actual boating safety problem areas. Problem areas are identified from sources such as the Boating Accident Reports, State Accident Reports, Coast Guard District Reports, Defect Notification Reports, and consumer complaints. Specific problems are identified, categorized, and subdivided into specific project areas for standards development.

Availability The volume, 33 CFR Parts 1 to 199, is available from the Superintendent of Documents, U.S. Government Printing Office

Keywords recreational; boats; inboard engine; outboard motor; sterndrive unit; environment; safety;

DEPARTMENT OF THE TREASURY

BUREAU OF ALCOHOL, TOBACCO, AND FIREARMS

National Laboratory Center
1401 Research Boulevard
Rockville, Maryland 20850
(301) 294-0410

Authority

Various laws relating to the production, storage, and taxation of alcohol and tobacco products, firearms, and explosives.

**Implementation
and
Application**

Standards have been established by the Bureau of Alcohol, Tobacco and Firearms (ATF) Laboratories, which apply to hydrometers, thermometers, and William's test tubes supplied to the Bureau for testing the alcoholic content of beverages. Although these standards are not usually published, they are supplied to bidders for manufacturing contracts.

In cooperation with various industry segments, ATF prescribes and enforces standards of identity for alcoholic beverages. These standards are established by regulations applicable to all such beverages produced in or imported into the United States. Standards for the various classes of wines are published at 27 CFR, Part 4; those for distilled spirits are published at 27 CFR, Part 5.

The ATF Laboratories set specifications for ethyl alcohol, denatured alcohol, proprietary solvents, and special industrial solvents. These are incorporated as Federal Specifications O-E-760B, issued by the General Services Administration. Through regulations issued by BATF at 27 CFR, Parts 211 and 212, these specifications are applicable to the production of these products in the United States.

The standards of identity for small cigars, as defined in 26 U.S.C. 5702 and in regulations issued by ATF at 27 CFR, Part 270, are further established by laboratory test procedures set up by the ATF Laboratories. These analytical tests are utilized to enforce these standards for small cigars, as differentiated from cigarettes, upon all such products consumed within the United States.

Additionally, the Bureau sets specifications relating to construction of storerooms for explosive materials. These specifications are published in 27 CFR, Part 181.

Availability

National Laboratory Center, ATF. The CFR is available from the Government Printing Office

Keywords instruments; beverages; testing; materials;

DEPARTMENT OF THE TREASURY

INTERNAL REVENUE SERVICE

Open Systems Standards (IS:S:A:OS)
Suite 300
1525 Wilson Blvd.
Arlington, Virginia 22209
(703) 235-2820 FAX: (703) 235-2911
e-mail: rick.heroux@cmail.irs.gov

Authority Treasury Directive 87-01 (TD 87-01), Information Standards Program, states that it is the policy of the Department of Treasury to comply with all mandatory Federal Information Processing Standards (FIPS) and Federal Telecommunications Standards (FED-STDs) and other information systems standards and guidelines to the extent they are determined to be cost-effective and appropriate for the intended use.

Implementation Within the Internal Revenue Service (IRS) Open Systems Standards is responsible for researching, adopting, and promoting federal standards to ensure portable applications and systems within the IRS. This includes ensuring that the development tools purchased by the agency comply with established FIPS and IRS standards which are manifested in the IRS Open Systems Standards Profile. The IRS Open Systems Standards Profile outlines those technical standards that have been selected for IRS use based upon user requirements. The standards selected must be used by IRS when building or purchasing information systems. These standards are based upon FIPS and de jure standards where possible and follow the National Institute of Standards and Technology (NIST) Application Portability Profile (APP) Service Areas.

Adoption of Nongovernment Standards The majority of the IRS standards are incorporated from Treasury Directives, FIPS publications, FED-STDs, American National Standards Institute (ANSI), Institute of Electrical and Electronics Engineers (IEEE), International Telecommunications Union (ITU), and other de jure standards. When de jure standards are not mature or do not exist to meet a business requirement, de facto standards have been selected.

Qualification, Certification, or Calibration Treasury Directive 85-02 Automated Information Systems Security and Risk Management Program, establishes the policy with respect to ensuring adequate security for automated information systems, applications, and facilities within the Department of Treasury. This Treasury Directive is intended to fulfill the requirements of Office of Management and Budget (OMB) Circulars A-130 and A-123, and National Security Decision Directive (NSDD)-145.

Committee Activity IRS is in the process of identifying and standardizing data for electronic interchange through participation in ANSI Accredited Standards Committee X.12, Electronic Data Interchange (EDI). IRS and the state tax agencies, represented through the Federation of Tax Administrators, are working together to standardize data for EDI.

Standardization Activities Periodically, the IRS updates its standards documentation to keep their standards consistent with user requirements, adopted standards, and changing market trends.

Keywords electronic data interchange; information systems; open systems; application portability profile;

DEPARTMENT OF THE TREASURY

U.S. CUSTOMS SERVICE

Office of Regulations and Rulings
 International Agreements Staff
 1301 Constitution Avenue, NW
 Franklin Court Bldg., Suite 4000
 Washington, DC 20229
 (202) 482-7000 FAX: (202) 482-7042

Authority United States accession to the Customs Cooperation Council Convention. Instruments of ratification deposited on November 5, 1970. United States accession to the Harmonized System Convention, instruments of ratification deposited on October 31, 1988. The CCC is informally known as the World Customs Organization (WCO).

Implementation The Harmonized Tariff Schedule was implemented on January 1, 1989, as a result of the Omnibus Trade and Competitiveness Act of 1988.

Application The Harmonized System is applied for the imposition of customs duties upon the entry of merchandise into the United States and other countries, and for the collection of international trade data.

Committee Activity The U.S. Customs Service (USCS) serves as chairman of the Inter-agency Advisory Committee on WCO matters, participates on the Trade Policy Staff Committee and its task force on the Harmonized System, and serves as chairman of the United States delegation of the Harmonized System Committee of the WCO.

**Standardization
Activities**

The Harmonized System Committee of the Customs Cooperation Council developed a standardized system of nomenclature for use in international trade. This is essentially a commodity classification system used as a basis for customs tariffs and the foreign-trade statistical systems of the United States and its trading partners. The system is devised such that it is used as a basis for various other international trade facilitation measures, for example, freight tariffs.

Availability

A copy of the Harmonized Tariff Schedule of the United States Annotated is available from the United States International Trade Commission, 500 E Street, SW, Washington, DC.

Keywords

customs; harmonized system; international trade; business;

DEPARTMENT OF THE TREASURY

U.S. CUSTOMS SERVICE

Office of Laboratories and Scientific Services
1301 Constitution Avenue, NW
Washington, DC 20229
(202) 927-1060 FAX: (202) 927-2060
e-mail: lab-hq@labhqx31.customs.sprint.com

Authority

Title 19, Code of Federal Regulations

Implementation

Recommended and official laboratory methods are developed and implemented within the U.S. Customs Service (USCS) laboratory system for the analysis of imported commodities. Upon request, commodity brochures describing the methods and/or type of instrumentation used by the Customs laboratory, will be issued to the public.

Application

The application of these methods is to meet specific tariff requirements as legislated.

**Adoption of
Nongovernment
Standards**

U.S. Customs laboratories most frequently use standards developed by industry groups or other nongovernment organizations such as: AOAC, API, ASTM, ANSI, SAE, etc.

**Qualification,
Certification,
or Calibration**

Laboratories and Scientific Services is involved in the accreditation of private laboratories to perform testing of merchandise and the approval of commercial gaugers. Currently, gauger approval is provided for animal and vegetable oils, fuel oils, crude oils and organic compounds in bulk and liquid form. Additionally, this Office accredits laboratories in the testing of petroleum products for Customs purposes. Additional commodity types will be incorporated into the laboratory accreditation process. We are not involved in the qualification, certification or calibration of methods or standards.

**Committee
Activity**

The U.S. Customs laboratory managers and scientists participate in pertinent committees of the American Petroleum Institute, American Society for Testing and Materials, Customs Cooperation Council, American National Standards Institute, International Commission for Uniform Methods of Sugar Analysis, Association of Official Analytical Chemists, the National Voluntary Laboratory Accreditation Program, and the American Chemical Society.

Availability

Laboratories and Scientific Services, U.S. Customs Service.

Keywords

sampling; laboratory analysis; laboratory methods; customs duties; testing; standards; NASD;

DEPARTMENT OF THE TREASURY

U.S. MINT

Office of Process Control and Quality Assurance
Judiciary Square Building
633 3rd Street, NW
Washington, DC 20220
(202) 874-6160 FAX: (202) 874-6324

Authority

31 U.S.C. 317 and 391

Implementation

The U.S. Mint, Department of the Treasury, develops and administers the technical standards for United States coinage. Nominal diameter and weight standards are established by statute. Deviations allowed in the weight of minor coins are established by 31 U.S.C. 350. Thickness standards and other tolerances are developed by the Office of Process Control and Quality Assurance, Office of the Director.

Application

These standards are only imposed internally on the coin manufacturing processes. However, their importance in the development of coin handling and coin operated equipment so commonly found throughout the nation warrants their publication upon request.

Availability Written inquiries should be directed to the Director of the Mint, Attention, Office of Process Control and Quality Assurance.

Keywords coins; finance;

U.S. TRADE REPRESENTATIVE

see EXECUTIVE OFFICE OF THE PRESIDENT

DEPARTMENT OF VETERANS AFFAIRS

Office of Acquisition and Material Management (92A)
810 Vermont Avenue, NW
Washington, DC 20420
(202) 273-6103 FAX: (202) 273-6225

Authority Title 38 CFR Chapter I and Title 41 CFR Chapter 8

Standardization Activities The standardization activities of the Veterans Administration (VA) are administered by the Safety, Occupational Health, and Fire Protection Division. The Division establishes VA standards as supplements to adopted national standards. Currently there are 26 VA standards including the following 20 product and safety related items:

Carpet Fire-Safety Requirements in Health Care Facilities
Automatic Fire Extinguishing Protection
Air Conditioning Systems
Magnetic Door Locks
Liquid Oxygen Walker Units
Trash Containers
Exit Through ICU and CCU
Food Service Equipment and Facilities
Lasers
Pipetting in Hospital Laboratories
Electron Microscopes
Microwave Ovens
Carcinogenic Chemicals
Noise
Bathtubs
Laboratory Safety Equipment-Safety Showers and Eyewashes
Electrical Safety
Prohibition of Using Lead-Based Paint
Storage, Preparation, and Consumption of Food and Beverages by Employees in Places of Work

Availability

Policy Manual MP-3, Part III lists current standards and is available from the address above.

Keywords

medical devices; air conditioning; consumer products; plumbing; food; safety; noise;

4. SOURCES OF STANDARDS AND INFORMATION ABOUT STANDARDS

Standards are usually obtained directly from the developing organization, or commercial distributors, or government repositories. A few libraries and standards organizations maintain collections of standards that are open to the public. This section lists distributors of standards in this country and abroad and libraries and information centers.

This information is provided as a service to readers seeking local sources for standards and related materials. It should be emphasized that no endorsement of comprehensiveness, quality, or cost should be inferred, and that potential users must perform their own evaluation.

The following organizations are listed in this section:

American Technical Publishers Ltd	703
ASTM Information Center	703
Book Supply Bureau	704
Custom Standards Services, Inc.	704
Department of Defense Single Stock Point	705
DECO - Document Engineering Co. Inc.	706
Document Center	707
Global Engineering Documents	708
Government Printing Office	710
Information Handling Services	711
Information Technology Standards Integrated, Center for Standards	715
Linda Hall Library	716
Morgan Technical Library	717
National Center for Standards and Certification Information	718
National Technical Information Service	719
Standard Sales Group	720

AMERICAN TECHNICAL PUBLISHERS LTD.

27-29 Knowl Piece
Wilbury Way
Hitchin Herts SG4 OSX
England
Telephone: 01462 433678 FAX: 01462 433678

Founded: 1980

**Type of
Organization**

Private for profit

**Number of
Standards**

50 000 U.S. nongovernment standards and
reference books/videos and software.

**Types of
Standards**

U.S. NONGOVERNMENT:

ACI American Concrete Institute
IIE Institute of Industrial Engineering
ANSI American National Standards Institute
ASTM American Society for Testing & Materials
ASM ASM International
NACE National Association of Corrosion
 Engineers
ISA Instrument Society of America
SAE Society of Automotive Engineers
TAPPI Technical Association of the Pulp & Paper
 Industry
SME Society of Manufacturing Engineers

Medium

Paper, microfiche, CD-ROM.

**Related
Standards
Services**

Individual alphanumeric indexes available.

ASTM INFORMATION CENTER

American Society for Testing and Materials
100 Barr Harbor Drive
West Conshohocken, Pennsylvania 19428-2959
(610) 832-9550 FAX: (610) 832-9555
e-mail: sbailey@localastm.org

Founded: 1898

**Type of
Organization**

Nonprofit

**Types of
Standards**

All ASTM.

Medium Paper.

Related Standards Services Handle telephone and mail inquiries on standards.

BOOK SUPPLY BUREAU

Head Office:
A-68, South Extension I
New Delhi-110 049
India
Telephone: 91-4611991, 4634222
FAX: 91-011-462 7172

Founded: 1972

Type of Organization Private for profit

Number of Standards 210 000 standards.

Types of Standards ANSI, API, ASTM, BSI, DIN, IEC, IEEE, ISO, JIS

Medium Paper; CD-ROM of Information Handling Services.

Related Standards Services Issue monthly bulletin about new standards and revisions.

CUSTOM STANDARDS SERVICES, INC.

Gregg Hammerman, President
802 Oakland Avenue
Suite 5
Ann Arbor, Michigan 48104
(800) 699-9277 FAX: (313) 930-9088
e-mail: updates@aol.com
WWW: <http://www.well.com/user/css>

Founded: 1994

Type of Organization Private for profit

Number of Standards All standards of 35 U.S. nongovernment standards developers.

Types of Standards AAMA, AATCC, ABMA, ACI, AF&PA, AIA, AIIM, ANSI, API, ARI, ASA, ASCE, ASHRAE, ASME, ASTM, ANPA, AWS, BHMA, BIFMA, California BHFTI, city of Boston Firecodes, CGSB, CSA, EIA/TIA, GANA, GTA, PGMA, HPES, HPVA, ICBO, IEC, IFI, ISO, ISS, LSGA, MPIP, NACE, NEMA, NFPA, NSF, X3/ITI.

Medium Paper, facsimile; eventually full online service.

Related Standards Services Custom packages for coverage of federal OSHA and EPA regulations.
Automatic standards updating service at no charge.

DEPARTMENT OF DEFENSE SINGLE STOCK POINT

Defense Printing Service Detachment Office
700 Robbins Avenue, Bldg. 4D
Philadelphia, Pennsylvania 19111-5094
(215) 697-2667/2179 FAX: (215) 697-1462
WWW: <http://dtic.dla.mil:80/dps-phila/>

Type of Organization Government

Number of Standards 45 000 U.S. Government.
7000 Nongovernment.
15 000 Other.

Types of Standards U.S. GOVERNMENT:
All military and federal standards, specifications and related documents listed in the Department of Defense Index of Specifications and Standards.

NONGOVERNMENT:
Standards are ONLY provided to DoD Agencies. These are primarily DoD adopted industry standards and specifications such as

Aerospace Industries Association, National Aerospace Standards
American National Standards Institute
American Society of Mechanical Engineers
American Society for Testing and Materials
American Welding Society
Society of Automotive Engineers

NON-U.S.:
NATO Standardization Agreements

Availability of Prior Editions Canceled documents archived by the DODSSP are available in printed format.

Medium Paper, CD-ROM, magnetic tape, and on-line.

Indexing The Department of Defense Index of Specifications

and Standards (DODISS) is available in printed book form and CD-ROM. It is a three part listing: alpha, numeric as well as numeric within Federal Supply Classes.

The printed edition is available from: Government Printing Office, Washington, DC 20402.

**Related
Standards
Services**

New and/or revised releases of military and federal specifications and Standards (including Qualified Products Lists) which are to be listed in the DODISS are available on a subscription basis for a single class or for as many individual classes as the subscriber choose upon payment of a subscription fee per Federal Supply Class.

The Acquisition Streamlining and Standardization Information System (ASSIST) is a relational database system for DoD-wide standardization and acquisition reform management. It links the DODISS, a directory of all activities with an interest in the Defense Standardization Program, a directory of all on-going standardization projects, and listings of all active and canceled Data Item Descriptions. Various reports can be developed including lists of referenced documents and specification trees(pyramids). ASSIST is available on-line as well as on CD-ROM.

DECO - DOCUMENT ENGINEERING CO. INC.

Eric Molinari, President
15210 Stagg Street
Van Nuys, California 91405-1092
(818) 782-1010 FAX: (818) 782-2374
e-mail: doceng@doceng.com
WWW: <http://www.doceng.com/doceng>

Founded: 1958

**Type of
Organisation**

Private for profit

**Number of
Standards**

200 000 U.S. Government.
50 000 Nongovernment.

**Types of
Standards**

U.S. GOVERNMENT:
All military and federal standards, specifications and handbooks, QPL's (Qualified Products Lists) and related documents listed in the DoD (Department of Defense) Index. CFR, DEBC, DID, FAR, FIPS, NASA.

U.S. NONGOVERNMENT:

AA, AGMA, AIA, ANSI*, ASA*, ASME, ASTM*, ASQC, ATA, AWS, EIA, IEEE, IPC, ISA, NEMA*, NFPA, SAE*, UL*.

NON-U.S.:

AECMA*, BSI*, CECC*, CEN, CENLEC, DIN*, IEC*, ISO*, SBAC*.

*Copyright license agreement in place

This is a partial listing of available standards.

Historical Documents

Comprehensive DODISS collection dating prior to 1940. Many industry standards are also available.

Medium

Paper. Limited items available in electronic format.

Indexing

Indexes are conventional alphanumeric. All indexes are available in hard copy.

Related Standards Services

Automatic Updating Service
Library Audits
Military Sheet Form Standards (MS, AN, AND)
Book Sets and Updating Service

DOCUMENT CENTER

Claudia Bach, President
1504 Industrial Way, Unit 9
Belmont, California 94002
(415) 591-7600 FAX: (415) 591-7617
e-mail: info@doccenter.com
WWW: <http://www.doccenter.com/doccenter>

Type of Organization

Private for profit

Number of Standards

300 000 U.S. Government.
100 000 U.S. Nongovernment.
50 000 Non-U.S..

Types of Standards

U.S. GOVERNMENT:

All military standards and specifications, etc., as listed in the Department of Defense Index of Specifications and Standards. Other military standards (Army, Air Force, Defense Logistics Agency, DESC, Navy, etc.). Other federal standards (NASA, FCC, FAA, GSA, etc.).

U.S. NONGOVERNMENT

All ASTM, EIA, ANSI, SAE, AWS, IPC, IEEE, SEMI, NFPA, API, AIIM, ASHRAS, ATA, and others.

INTERNATIONAL AND FOREIGN:
IEC, ISO, BSI, DIN, VDE, JIS, CSA, EU and others.

OTHER TECHNICAL AND REGULATORY INFORMATION:
GPO Publications, such as the Code of Federal Regulations, etc.
NTIS Publications, such as the FIPS, etc.
Draft Standards
Canceled Standards

Availability of Prior Editions Many canceled documents are in stock. Those not in stock can normally be quoted for price and availability.

Medium Primarily paper, although some microfiched copies are available. Catalog available to search at no charge on the Internet.

Indexing Alphanumeric.
Historical (such as the DODISS Canceled Documents Index).

Related Standards Services Automatic Updating Service.

GLOBAL ENGINEERING DOCUMENTS
A Division of Information Handling Services

Tom Littman, V.P. Operations
15 Inverness Way East
Englewood, Colorado 80112
(303) 792-2181 FAX: (303) 397-7935

Founded: 1968

Type of Organization Private for profit

Number of Standards More than one million new and historical documents in-stock.

Types of Standards **U.S. GOVERNMENT:**
All military and federal standards, and specifications, handbooks, Commercial Item Descriptions (CID's), Data Item Descriptions (DID's), Qualified Products Lists (QPL's), directives and regulations including Armed Services Procurement Regulations/Defense Acquisition Regulations. Also all NATO standards and quality assurance publications, standardization publications of the Army, Navy, and Air Force, and Federal Acquisition Regulations.

Standards and related publications of the following federal agencies are also stocked: NASA, NIST, Nuclear Regulatory Commission (NRC), DOT, FAA, FCC, GPO, GSA, HUD, OSHA, AND NTIS.

U.S. NON-GOVERNMENT STANDARDS:

ACI	American Concrete Institute
AGA	American Gas Association
AGMA	American Gear Manufacturers Association
AIA	American Institute of Architects
AISC	American Institute of Steel Construction
ANS	American Nuclear Society
ANSI	American National Standards Institute
API	American Petroleum Institute
ARI	Air Conditioning and Refrigeration Institute
ARINC	Aeronautical Radio, Incorporated
ASA	Acoustical Society of America
ASHRAE	American Society of Heating, Refrigerating and Air Conditioning Engineers
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing and Materials
AWS	American Welding Society
AWWA	American Water Works Association
EIA	Electronic Industries Association
ICBO	International Conference of Building Officials
IEEE	Institute of Electrical and Electronics Engineers
IES	Illuminating Engineering Society
IPC	The Institute for Interconnecting and Packaging Electronic Circuits
ISA	Instrument Society of America
MSS	Manufacturers Standardization Society of the Valve and Fittings Industry
NACE	National Association of Corrosion Engineers
NAS	National Aerospace Standards (produced by Aerospace Industries Association)
NEMA	National Electrical Manufacturers Association
NFPA	National Fire Protection Association
NFPA	National Fluid Power Association
RTCA	Radio Technical Commission for Aeronautics
SAE	Society of Automotive Engineers
SSPC	Steel Structures Painting Council
TAPPI	Technical Association of the Pulp and Paper Industry
UL	Underwriters Laboratories

INTERNATIONAL AND NON-U.S.:

AFNOR Association Francaise De Normalisation
BSI British Standards Institution
CCITT International Telegraph & Telephone Consultative
Committee
CEN Comite Europeen de Normalisation
(European Committee for Standardization)
CENELEC Comite Europeen de Normalisation d'Electrotechnique
(European Committee for Electrotechnical
Standardization)
CNS Chinese National Standards (Republic of China)
CSA Canadian Standards Association
DEF British Defense Standards
DIN Deutsches Institut für Normung
IEC International Electrotechnical Commission
EU European Union
EN European Normalisation
ISO International Organization for Standardization
ITU International Telecommunications Union
JIS Japanese Industrial Standards
SAA Standards Association of Australia
VDE Verband Deutscher Elektrotechniker

**Availability of
Prior Editions**

Global maintains an extensive library of historical documents, some dating back as far as the 1920's. They also maintain stock on nearly all prior issues of DODISS documents.

Medium

Paper.

Indexing

Global's Product Selector is a CD-ROM index listing of over 200 000 current documents within their inventory. It provides document number, title, status, as well as pricing on individual documents.

**Foreign Sales
Offices for
U.S. Standards**

Eastwood, N.S.W., Australia; London, Ontario Canada; Heliopolis, Egypt; Clichy, France; Planegg, Germany; Kowloon, Hong Kong; Tel Aviv, Israel; Mexico City, Mexico; Berkshire, UK. Requests from Central and South America are handled by the Global Information Center, North Miami Beach, Florida.

**Related
Standards
Services**

The Global Standard & Specification Bulletin provides weekly updates of any new and revised documents.

GOVERNMENT PRINTING OFFICE

Superintendent of Documents
Washington, DC 20402
(202) 512-1800

FAX: (202) 512-2250

Founded: 1895

**Type of
Organization**

Government

**Types of
Standards**

Neither the GPO nor the Superintendent of Documents issues or publishes standards *per se*. However, as the principal sales agency for Government publications, the Superintendent of Documents' inventory of available publications contains hundreds that relate to standards or which contain standards issued by the various Departments and agencies of the Government. A few examples of the publications available are: The Department of Defense Index of Specifications and Standards; Standards for Specifying Construction of Airports; Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects; Government Paper Specifications Standards.

The DOD's Military Specifications and Standards and GSA's Federal Specifications and Standards are not available from GPO. Only the indexes for these publications are distributed by GPO. The standards and specifications are available from the DoD Single Stock Point and the GSA Specifications Unit, respectively.

Medium

Paper.

INFORMATION HANDLING SERVICES

Michael J. Timbers, Chief Executive Officer, IHS Group

15 Iverness Way East
Englewood, Colorado 80150
(800) 716-3447, ext. 102 (U.S.)
+1 (303) 397-2506 (outside U.S.)
e-mail: info@ihs.com
WWW: <http://www.ihs.com>

Founded: 1959

**Type of
Organization**

Private for profit

**Number of
Standards**

298 000 U.S. Government.
83 000 U.S. Nongovernment.
24 000 International.
144 000 Non-U.S.

**Types of
Standards**

U.S. GOVERNMENT:

All active Military Standards, Specifications and related documents
Federal Standards, Specifications and related documents
Military/Federal QPLs
Military Handbooks and Bulletins
MS, AND, ANA, AN Drawings
USAF/NAF Standards
DESC/SMD Drawings
Data Item Descriptions
DoD directives
Naval Instructions and Directives
Commercial Item Descriptions
Joint Army Navy Specs
Federal Construction Regulations and Standards
Federal Aviation Administration Standards
NATO Documents
NASA Documents
Army Documents
Department of Energy Documents
Nuclear Regulatory Commission Regulations and Standards

U.S. NONGOVERNMENT:

Aluminum Association (AA)
American Association of State Highway & Transportation Officials
(AASHTO)
American Association of Textile Chemists and
Colorists (AATCC)
American Bearing Manufacturers Association (ABMA)
American Bureau of Shipping (ABS)
American Concrete Institute (ACI)
American Gas Association (A.G.A.)
American Gear Manufacturers Association (AGMA)
Asphalt Institute (AI)
Aerospace Industries Association of America, Inc. (AIA[NAS])
American Institute of Architects (AIA)
American Institute of Aeronautics & Astronautics (AIAA)
American Institute of Chemical Engineers (AIChE)
Association for Information & Image Management (AIIM)
American Institute of Steel Construction (AISC)
American Iron & Steel Institute (AISI)
American Nuclear Society (ANS)
American National Standards Institute (ANSI)
American Petroleum Institute (API)
American Railway Engineering Association (AREA)
Air-Conditioning & Refrigeration Institute (ARI)
Aeronautical Radio, Inc. (ARINC)
Acoustical Society of America (ASA)
The American Society of Agricultural Engineers (ASAE)
American Society of Civil Engineers (ASCE)
American Society of Heating, Refrigerating & Air-
Conditioning Engineers (ASHRAE)
American Society of Mechanical Engineers (ASME)

American Society of Nondestructive Testing (ASNT)
 American Society for Quality Control (ASQC)
 American Society of Sanitary Engineering (ASSE)
 American Society for Testing and Materials (ASTM)
 American Welding Society (AWS)
 American Water Works Association (AWWA)
 American Association for Laboratory Accreditation (A2LA)
 Builders Hardware Manufacturers Association (BHMA)
 Civil Engineering Data (CED)
 Compressed Gas Association (CGA)
 Cooling Tower Institute (CTI)
 Electronic Industries Association (EIA)
 General Motors (GM)
 Gypsum Association (GA)
 Gas Processors Association (GPA)
 Insulated Cable Engineers Association (ICEA)
 Institute of Electrical & Electronics Engineers (IEEE)
 Illuminating Engineering Society of North America (IESNA)
 Industrial Fasteners Institute (IFI)
 The Institute for Interconnecting & Packaging Electronic Circuits
 (IPC)
 ISA - The International Society for Measurement
 and Control (ISA)
 International Society for Hybrid Microelectronics (ISHM)
 Manufacturers Standardization Society of the Valve and Fittings
 Industry (MSS)
 NACE International (NACE)
 National Environmental Balancing Bureau (NEBB)
 National Electrical Manufacturers Association (NEMA)
 National Fire Protection Association (NFPA)
 National Fluid Power Association (AFP[A])
 National Information Standards Organization (NISO)
 NSF International (NSF)
 Nondestructive Testing Information Analysis Center (NTIAC)
 Pipe Fabrication Institute (PFI)
 Plastics Technical Evaluation Center (PLASTEC)
 Plastics Pipe Institute (PPI)
 Reliability Analysis Center (RAC)
 Radio Technical Commission for Aeronautics (RTCA)
 Resistance Welder Manufacturers Association (RWMA)
 SAE International (SAE)
 Semiconductor Equipment & Materials International (SEMI)
 Steel Joist Institute (SJI)
 Sheet Metal & Air Conditioning Contractors' National Association,
 Inc. (SMACNA)
 Society of Motion Picture & Television Engineers (SMPTE)
 Steel Structures Painting Council (SSPC)
 Technical Association of the Pulp and Paper
 Industry (TAPPI)

Underwriters Laboratories Inc. (UL)
X3 Information Technology (X-3 ITI)

INTERNATIONAL AND REGIONAL:

European Association for Materials of Aerospace
Construction (AECMA)
CENELEC Electronic Components (CECC)
European Committee for Standardization (CEN)
European Committee for Electrotechnical Standardization (CENELEC)
Conference of European Postal and
Telecommunications Administration (CEPT)
European Council (EC)
Electronic Quality Assurance Documents service (EQADS)
European Computer Manufacturers Association (ECMA)
European Telecommunications Standards Institute (ETSI)
International Atomic Energy Agency (IAEA)
International Quality Assessment System for Electronic Components
(IECQ)
European Organization for Civil Aviation
Electronics (EUROCAE)
International Civil Aviation Organization (ICAO)
International Commission for Illumination (CIE)
International Electrotechnical Commission (IEC)
International Organization for Standardization (ISO)
International Telecommunications Union (ITU)
Joint Technical Committee 1 (JTC 1) of ISO and IEC
North Atlantic Treaty Organization (NATO)

NON-U.S.:

Association Francaise de Normalisation (AFNOR)
British Standards Institution (BSI)
Civil Aviation Authority (CAA)
Canadian General Standards Board (CGSB)
Chinese National Standards - Taiwan (CNS)
Canadian Pulp and Paper Association (CPPA)
Canadian Standards Association (CSA)
Deutsches Institut für Normung e. V. (DIN)
Japanese Industrial Standards (JIS)
British Ministry of Defense (MOD UK)
Standards Association of Australia (SAA)
Saudi Arabian Standards Organization (SASO)
The Society of British Aerospace Companies (SBAC)
Standards New Zealand (SNZ)
Underwriters' Laboratories of Canada (ULC)
Verein Deutscher Ingenieure (VDI)

Medium

Microfilm, microfiche, CD-ROM, magnetic tape, on-line,
Internet.

Indexing

Alphanumeric and by subject in printed indexes. Worldwide
Standards index on CD-ROM, on-line or Internet allows multi-
lingual searching in English, French, German and Spanish. Search
by document number, document date, developing organization,
keyword, revision status, document type, and other bibliographic

details. This index also cross-searches to Military Specs and Standards.

Related Standards Services Perinorm, a CD-ROM based index cites all the standards of BSI, AFNOR, DIN, ISO, IEC, CEN/CENLEC, JIS, ASTM, IEEE, UL and standards data from Australia, the Netherlands and Switzerland.

Foreign Sales Sales representatives and distributors throughout the U.S. and in over 90 foreign countries.

Trade Names Extension 99, Hot Specs, VSMF.

INFORMATION TECHNOLOGY STANDARDS INTEGRATED (ITSI), CENTER FOR STANDARDS

Defense Information Systems Agency
Joint Interoperability Engineering Organization
10701 Parkridge Blvd.
Reston, Virginia 22090
(703) 735-8338
e-mail: helpdesk@itsi.disa.mil
WWW: <http://www.itsi.disa.mil>

Founded: 1994

Type of Organization

Government

Number of Standards

The more than 500 government and nongovernment standards listed in

- Volume 7, Adopted Information Technology Standards, of the Technical Architecture for Information Management (TAFIM), and
- Mil-STD-187-700A, Interoperability and Performance Standards for the Defense Information System.

Type of Standards

The ITSI Standards Document Library is a database of the most important documents needed to build DoD information systems. It contains policy, guidance, and reference documents, but the bulk of the collection is government and nongovernment standards.

Abstracts are provided for all standards. More than one-third of them are in electronic format available for downloading on-line. However, most nongovernment standards (e.g., ISO, ANSI, IEEE) cannot be downloaded due to copyright restrictions. Sources for these standards are included in the database.

National Fire Protection Association - National Fire Codes.
Society of Automotive Engineers - SAE Handbook of Ground Vehicle
standards; Aerospace standards.

Medium Paper, some microfiche.

**Related
Standards
Services** Photocopy service.

MORGAN TECHNICAL LIBRARY

National Fire Protection Association
1 Batterymarch Park
Quincy, Massachusetts 02269-9101
(617) 984-7445 FAX: (617) 984-7060
e-mail: library@NFPA.org
WWW: <http://www.wpi.edu/nfpe/nfpa.html>

Founded: 1945

**Type of
Organization** Nonprofit

**Types of
Standards** U.S. NONGOVERNMENT:
NFPA National Fire Protection Association
UL Underwriters Laboratories

NON-U.S.:
Partial files on Canadian and UK standards organizations,
primarily those standards relating to fire safety.

INTERNATIONAL:
Partial file of standards relating to fire safety from ISO and IEC

**Availability of
Prior Editions** Historic files are maintained for the National
Fire Protection Association, 1896-current.

Medium Paper for current files.
Microfiche for historic files.

Indexing Indexes are those supplied by issuing body.

**Related
Standards
Services** Provide photocopies of out-of-print National Fire
Protection Association Standards. Authentication
services available.

NATIONAL CENTER FOR STANDARDS AND CERTIFICATION INFORMATION (NCSCI)

National Institute of Standards and Technology
Bldg. 820, Room 164
Gaithersburg, Maryland 20899
(301) 975-4040 FAX: (301) 926-1559
e-mail: joverman@nist.gov
WWW: <http://www.nist.gov>

Founded: 1965

**Type of
Organization**

Government

**Types of
Standards in
Collection**

UNITED STATES:
Federal agency (technical regulations)
Federal and military standards
Nongovernment

NON-U.S.:
International
Regional
Foreign national

Medium

Paper, CD-ROM and microform.

**Related
Standards
Services**

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WWW: <http://www.fedworld.gov>

Founded: 1970 (predecessor 1946)

**Type of
Organization**

Governmental

**Types of
Standards**

U.S. GOVERNMENT:
Some military standards
Nuclear
Medical
Environmental
Food and Drug

U.S. NONGOVERNMENT:
American National Standards Institute publications
cited in government standards.

**Availability of
Prior Editions**

Retain all prior editions.

Medium

Paper, microfiche, diskette, CD-ROM, on-line, and
audiovisual FedWorld®.

Indexing

Government Report Abstracts and Index Journal Published
biweekly.

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Offices for
U.S. Standards**

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Allied Publishers Ltd.
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15885 Main Street
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(619) 947-6100 FAX: (619) 947-2899

**Type of
Organization**

Private for profit

**Number of
Standards**

25 000 U.S. nongovernment.
50 000 Non-U.S.
25 000 International.

**Types of
Standards**

UNITED STATES:
AMMI, ANSI, ISE, IPC, LIA, NEMA, NFPA, SEMI, UL and others

INTERNATIONAL:
CIE, IEC, IMO, ISO, ITU, WHO

NON-U.S.:
EU directives, CEN, CENELEC, CEPT, ETSI, AENOR, AFNOR,
AUSTEL, BABT, BAPT, BGBI, BSI, CEI, CNET, Communications Canada,
CSA, DIN, FTZ, FZA, GOST, JIS, MPR, ONORM, SA, SASO, VBG, VDE,
VDI, Vfg, and others.

OTHER TECHNICAL AND REGULATORY INFORMATION:
Code of Federal Regulations
Draft standards
Foreign laws and regulations

**Availability of
Prior Editions**

Some withdrawn standards, drafts, and laws.

Medium

Paper.

Indexing

Alphanumeric.

**Related
Standards
Services**

Document Library Monitoring Service.
Automatic Updating Service.
Foreign Technical Document Translations.

5. SUBJECT INDEX AND RELATED LISTINGS

5.1 SUBJECT INDEX (ORGANIZATIONS BY MAJOR SUBJECTS)

Government and nongovernment organizations are listed in alphabetic order in their respective sections, and are listed here within forty-three subject categories. These categories were selected after reviewing the keywords of all entries.

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ACOUSTICS AND NOISE CONTROL

Acoustical Society of America
Air Conditioning and Refrigeration Institute
Air Movement and Control Association
American Association of State Highway and Transportation Officials
American Helicopter Society
American Institute of Physics
American Insurance Services Group
American Society for Testing and Materials
American Speech-Language and Hearing Association
Association of Wall and Ceiling Industries - International
Compressed Air and Gas Institute
Construction Industry Manufacturers Association
Environmental Protection Agency
Federal Aviation Administration (DOT)
Helicopter Association International
Home Ventilating Institute
Inchcape Testing Services
Institute of Environmental Sciences
ITA, The International Recording Media Association
Lead Industries Association
National Environmental Balancing Bureau
Outdoor Power Equipment Institute
Sheet Metal and Air Conditioner Contractors National Association
Snowmobile Safety and Certification Committee
Society of Automotive Engineers
Veterans Affairs, Department of

AEROSPACE AND AVIATION

Aeronautical Radio, Inc.
Aerospace Industries Association of America
Air Transport Association of America
Aircraft Owners and Pilots Association
American Helicopter Society
American Institute of Aeronautics and Astronautics
American Society for Testing and Materials
Department of Defense
Federal Aviation Administration (DOT)
Federal Coordinator for Metrology (Commerce)
Flight Safety Foundation
General Aviation Manufacturers Association
Helicopter Association International
National Aeronautics and Space Administration
Radio Technical Commission for Aeronautics
Society of Allied Weight Engineers
Society of Automotive Engineers
Southwest Research Institute
Standards Committee for Hi-Lok, Hi-Tigue, and Hi-Lite Products

AGRICULTURE

American Association of Cereal Chemists
American Association of Nurserymen
American Society of Agricultural Engineers
American Soybean Association
AOAC, International
Association of American Plant Food Control Officials
Association of Official Seed Analysts
Association of Official Seed Certifying Agencies
Blue Anchor
Corn Refiners Association
Dairy and Food Industries Supply Association
Department of Agriculture
DFA of California
Diamond Walnut Growers
Entomological Society of America
Environmental Industry Association
Equipment Manufacturers Institute
Irrigation Association
Manufacturers Institute
National Association of Photographic Manufacturers
National Bark and Soil Producers Association
National Clay Pot Manufacturers Association
National Coffee Association of the USA
National Cotton Council of America
National Cottonseed Products Association
National Fertilizer Solutions Association
National Institute of Oilseed Products
National Lime Association
National Oilseed Processors Association
Nebraska Power Laboratory
Outdoor Power Equipment Institute
Society of Automotive Engineers
Turfgrass Producers International
United States Hide, Skin and Leather Association
USA Rice Federation

AIR CONDITIONING AND REFRIGERATION

(Also see Heating, Ventilating and Air Handling)

Air-Conditioning and Refrigeration Institute
Air Conditioning Contractors of America
American Insurance Services Group
American Society of Heating, Refrigerating and Air-conditioning Engineers
Automotive Refrigeration Products Institute
Commercial Refrigeration Manufacturers Association
Inchcape Testing Services
International Institute of Ammonia Refrigeration
International Mobile Air Conditioning Association
Mechanical Contractors Association of America
National Association of Plumbing-Heating-Cooling Contractors
National Environmental Balancing Bureau

Sheet Metal, and Air Conditioning Contractors National Association
Solar Rating and Certification Corporation
Veterans Affairs, Department of

BUILDING

(Also see Air-Conditioning; Concrete; Heating; Plumbing; and Wood)

American Architectural Manufacturers Association
American Forest and Paper Association
American Gas Association
American Hardboard Association
American Institute of Architects
American Institute of Steel Construction
American Insurance Services Group
American Laminators Association
American Lighting Association
American Pipe Fittings Association
American Society for Testing and Materials
American Society of Agricultural Engineers
American Society of Civil Engineers
American Society of Mechanical Engineers
American Society of Plumbing Engineers
American Society of Safety Engineers
Asphalt Roofing Manufacturers Association
Associated General Contractors of America
Associated Locksmiths of America
Association of Engineering Geologists
Association of Wall and Ceiling Industries, International
Brick Institute of America
Builders Hardware Manufacturers Association
Building Owners and Management Association International
Building Technologies (DOE)
Ceiling and Interior Systems Construction Association
Concrete Reinforcing Steel Institute
Concrete Sawing and Drilling Association
Construction Specifications Institute
Council of American Building Officials
Department of Defense
Door and Hardware Institute
Door Operator and Remote Controls Manufacturers Association
Expanded Shale, Clay and Slate Institute
Factory Mutual Research Corporation
Gas Appliance Manufacturers Association
General Services Administration
Glass Association of North America
Home Automation Association
Housing and Urban Development, Department of
Illuminating Engineering Society of Northern America
Insulated Steel Door Systems Institute
International Association of Electrical Inspectors
International Association of Plumbing and Mechanical Officials
International Cast Polymer Association
International Conference of Building Officials

Lightning Protection Institute
Manufactured Housing Institute
Marble Institute of America
Metal Building Manufacturers Association
Multi-Housing Laundry Association
National Air Duct Cleaners Association
National Association of Architectural Metal Manufacturers
National Association of Garage Door Manufacturers
National Association of Industrial and Office Properties
National Association of Store Fixture Manufacturers
National Building Granite Quarries Association
National Concrete Masonry Association
National Conference of States on Building Codes and Standards
National Dimension Manufacturers Association
National Electrical Contractors Association
National Elevator Industry
National Environmental Balancing Bureau
National Fenestration Rating Council
National Institute of Building Sciences
National Kitchen and Bath Association
National Lime Association
National Oak Flooring Manufacturers Association
National Roof Deck Contractors Association
National Roofing Contractors Association
National Sash and Door Jobbers Association
National School Supply and Equipment Association
National Wood Window and Door Association
Plumbing and Drainage Institute
Portland Cement Association
Post-Tensioning Institute
Rack Manufacturers Institute
Redwood Inspection Service
Resilient Floor Covering Institute
Screen Manufacturers Association
Sealed Insulating Glass Manufacturers Association
Southern Building Code Congress International
Southern Forest Products Association
Steel Deck Institute
Steel Door Institute
Steel Joist Institute
Steel Window Institute
Tile Council of America
United Lightning Protection Association
Water Systems Council
Wood Molding and Millwork Producers Association
Woodwork Institute of California
Veterans Affairs, Department of

BUSINESS, FINANCE AND INSURANCE

Accredited Standards Committee X9 - Financial Services
AIM USA
Alliance of American Insurers

American Association of Advertising Agencies
American Automobile Association
American National Metric Council
American National Standards Institute
American Statistical Association
Association of American Railroads
Association of Records Managers and Administrators
Data Interchange Standards Association
Factory Mutual Research Corporation
Federal Trade Commission
Financial Accounting Foundation
Foreign Agricultural Service (USDA)
Health Care Financing Administration (DHHS)
Industrial Risk Insurers
Institute of Internal Auditors
Internal Revenue Service (Treasury)
International Trade Administration (Commerce)
National Association of Purchasing Management
National Cargo Bureau
National Institute of Standards and Technology (Commerce)
National Insurance Crime Bureau
National Retail Federation
Occupational Safety and Health Administration (Labor)
Project Management Institute
U.S. Council for International Business
U.S. Customs Service (Treasury)
U.S. Mint (Treasury)
U.S. Patent and Trademark Office (Commerce)
U.S. Trade Representative, Executive Office of the President
Uniform Code Council

COMMUNICATIONS

Advanced Television Systems Committee
Aeronautical Radio, Incorporated
Air Transport Association of America
Alliance for Telecommunications Industry Solutions
American Association of Advertising Agencies
American Design Drafting Association
American National Standards Institute
Association for Information and Image Management, International
Association for Suppliers of Printing and Publishing Technologies
Association of American Publishers
Association of American Railroads
ATM Forum
Automatic Meter Reading Association
Bellcore
Binding Industries of America
Book Industry Study Group
Book Manufacturers Institute
Corporation for Open Systems International
Data Interchange Standards Association
Department of Defense

Electronic Media Rating Council
Federal Communications Commission
Federal Coordinator for Meteorology (Commerce)
Graphic Communications Association
Gravure Association of America
Home Automation Association
Information Resources Management (GSA)
Information Technology Industry Council
Institute of Electrical and Electronics Engineers
Insulated Cable Engineers Association
International Communications Industries Association
Internet Society
ITA, The International Recording Media Association
Laser Institute of America
Library Binding Institute
National Association of Broadcasters
National Federation of Abstracting and Information Services
National Information Standards Organization
National Institute of Standards and Technology (Commerce)
National Marine Electronics Association
National Printing Ink Research Institute
National Telecommunications and Information Administration (Commerce)
Network Management Forum
Postal Service
Printing Industries of America
Radio Technical Commission for Aeronautics
Radio Technical Commission for Maritime Services
Recording Industry Association of America
Rural Utilities Service (USDA)
Security Industry Association
Semiconductor Equipment and Materials Institute
Society for Technical Communication
Society of Cable Telecommunications Engineers
Society of Motion Picture and Television Engineers
Southwest Research Institute
Telecommunications and Information Standards Directorate (State)
Traffic Audit Bureau

COMPUTERS AND INFORMATION TECHNOLOGY

Accredited Standards Committee X9 - Financial Services
AIM USA
American Association of Motor Vehicle Administrators
American Association of State Highway and Transportation Officials
American Congress on Surveying and Mapping
American Design Drafting Association
American Institute for Design and Drafting
American National Standards Institute
American Society for Testing and Materials
American Statistical Association
American Textile Manufacturers Institute
Association for Computing Machinery
Association for Information and Image Management, International

Association of American Railroads
Association of Records Managers and Administrators
ATM Forum
Automatic Meter Reading Association
Book Industry Study Group
Bureau of the Census (Commerce)
Collection Services (Library of Congress)
Construction Specifications Institute
Corporation for Open Systems International
Data Processing Management Association
Electronic Industries Association
Energy Information Administration (DOE)
Federal Coordinator for Meteorology (Commerce)
Geological Survey (Interior)
Graphic Communications Association
Home Automation Association
Information Resources Management (GSA)
Information Technology Industry Council
Information Technology Services (Library of Congress)
Institute of Electrical and Electronics Engineers
Internal Revenue Service (Treasury)
Internet Society
National Archives and Records Administration (GSA)
National Federation of Abstracting and Information Services
National Information Standards Organization
National Institute of Standards and Technology (Commerce)
National Telecommunications and Information Administration (Commerce)
Network Management Forum
Personal Computer Memory Card International Association
Printing Industries of America
Project Management Institute
Radio Technical Commission for Maritime Services
Society for Information Display
Society of Allied Weight Engineers
Special Libraries Association
U.S. Geological Survey (Interior)
U.S. Patent and Trademark Office (Commerce)
U.S. Product Data Association
Uniform Code Council
VMEBUS International Trade Association

CONCRETE, MASONRY AND CERAMIC PRODUCTS

American Concrete Institute
American Concrete Pavement Association
American Concrete Pipe Association
American Concrete Pressure Pipe Association
American Society for Testing and Materials
Association of Engineering Geologists
Brick Institute of America
Concrete Plant Manufacturers Bureau
Concrete Reinforcing Steel Institute
Concrete Sawing and Drilling Association

Expanded Shale, Clay and Slate Institute
International Masonry Institute
Masonry and Concrete Saw Manufacturers Institute
Materials and Methods Standards Association
National Building Granite Quarries Association
National Clay Pipe Institute
National Concrete Masonry Association
National Lime Association
National Terrazzo and Mosaic Association
Portland Cement Association
Post-Tensioning Institute
Precast/Prestressed Concrete Institute
Refractories Institute
Scaffolding, Shoring and Forming Institute
Stucco Manufacturers Association
Technical Ceramics Manufacturers Association
Tile Council of America
Truck Mixer Manufacturers Bureau
Wire Reinforcement Institute

CONSTRUCTION

(Also see Concrete, Masonry and Ceramic Products)

Air Conditioning Contractors of America
American Association of State Highway and Transportation Officials
American Fence Association
American Forest and Paper Association
American Hardboard Association
American Institute of Steel Construction
American Institute of Timber Construction
American Insurance Services Group
American Iron and Steel Institute
American Laminators Association
American Lumber Standards Committee
American Pipe Fittings Association
American Railway Engineering Association
American Road and Transportation Builders Association
American Society for Testing and Materials
American Society of Civil Engineers
American Society of Mechanical Engineers
American Society of Sanitary Engineering
American Water Works Association
American Wood-Preservers Association
American Wood-Preservers Bureau
Asphalt Emulsion Manufacturers Association
Asphalt Institute
Asphalt Roofing Manufacturers Association
Associated Air Balance Council
Associated General Contractors of America
Association of Asbestos Cement Pipe Producers
Association of Engineering Geologists
Association of Higher Education Facilities Officers
Association of Wall and Ceiling Industries - International

Building Officials and Code Administrators International
Cast Iron Soil Pipe Institute
Chain Link Fence Manufacturers Institute
Compressed Air and Gas Institute
Concrete Plant Manufacturers Bureau
Concrete Sawing and Drilling Association
Construction Industry Manufacturers Association
Construction Specifications Institute
Contractors Pump Bureau
Council of American Building Officials
Department of Defense
Engineered Wood Association
Environmental Industry Association
Factory Mutual Research Corporation
Federal Highway Administration (DOT)
General Services Administration
Gypsum Association
Hardwood Plywood and Veneer Manufacturers Association
Housing and Urban Development, Department of
Institute of Makers of Explosives
International Bridge, Tunnel and Turnpike Association
International Conference of Building Officials
Laborers International Union of North America
Mechanical Contractors Association of America
Metal Building Manufacturers Association
National Association of County Engineers
National Association of Industrial and Office Properties
National Association of Pipe Coating Applicators
National Association of Plumbing-Heating-Cooling Contractors
National Association of Store Fixture Manufacturers
National Building Granite Quarries Association
National Clay Pipe Institute
National Concrete Masonry Association
National Conference of States on Building Codes and Standards
National Corrugated Steel Pipe Association
National Electrical Contractors Association
National Lime Association
National Sash and Door Jobbers Association
National Stone Association
National Terrazzo and Mosaic Association
Occupational Safety and Health Administration (Labor)
Pipe Line Contractors Association
Plastics Pipe Institute
Portland Cement Association
Post-Tensioning Institute
Powder Actuated Tool Manufacturers Institute
Precast/Prestressed Concrete Institute
Resilient Floor Covering Institute
Scaffolding, Shoring and Forming Institute
Sheet Metal and Air Conditioner Contractors National Association
Single Ply Roofing Institute
Southern Building Code Congress International
Steel Tank Institute
Water Pollution Control Federation

CONSUMER PRODUCTS

American Furniture Manufacturers Association
American Gas Association
American Insurance Services Group
American Ladder Institute
American National Standards Institute
American Society for Testing and Materials
American Society of Electroplated Plastics
American Textile Manufacturers Institute
Art and Creative Materials Institute
Association of Bedding and Furniture Law Officials
Association of Home Appliance Manufacturers
Automatic Meter Reading Association
Building Technologies (DOE)
Bureau of Competition and Consumer Protection (FTC)
Carpet and Rug Institute
Chemical Specialties Manufacturers Association
Color Association of the United States
Consumer Federation of America
Consumer Product Safety Commission
Cookware Manufacturers Association
Cordage Institute
Cosmetic, Toiletry and Fragrance Association
Department of Defense
Electronic Industries Association
Food and Drug Administration (HHS)
Gas Appliance Manufacturers Association
Gas Processors Association
Gemological Institute of America
Hand Tools Institute
Home Automation Association
Inchcape Testing Services
International Fabricare Institute
International Sleep Products Association
Jewelers Vigilance Committee
Juvenile Products Manufacturers Association
Manufacturing Jewelers and Silversmiths of America
Metal Ladder Manufacturers Association
Multi-Housing Laundry Association
National Association of Hosiery Manufacturers
National Association of Jewelry Appraisers
National Institute of Infant Services
National Retail Federation
National Safety Council
National Spa and Pool Institute
Outdoor Power Equipment Institute
Resilient Floor Covering Institute
SGS - United States Testing Company
Snell Memorial Foundation
Tire and Rim Association
Toy Manufacturers of America
Underwriters Laboratories
Vacuum Cleaner Manufacturers Association

Veterans Affairs, Department of
Water Quality Association

DEFENSE

Aerospace Industries Association of America
American Defense Preparedness Association
American Helicopter Society
American National Metric Council
American National Standards Institute
American Society for Testing and Materials
Defense Programs (DOE)
Department of Defense
Electronic Industries Association
Helicopter Association International
Institute of Makers of Explosives
Institute of Nuclear Materials Management
Society of Allied Weight Engineers
Society of Automotive Engineers
Society of Naval Architects and Marine Engineers
Sporting Arms and Ammunitions Manufacturers Institute

EDUCATION

Accrediting Bureau of Health Education Schools
Advisory Commission on Textbook Specifications
American Academy of Pediatrics
American Association of Psychiatric Services for Children
American Library Association
American National Metric Council
American Optometric Association
American Psychiatric Association
American Psychoanalytic Association
American Public Health Association
American Speech-Language and Hearing Association
Association for Education of the Visually Handicapped
Association of Bedding and Furniture Law Officials
Association of Higher Education Facilities Officers
Book Industry Study Group
Book Manufacturers Institute
FACTS Institute for Research, Standards and Terminology
Hair International
National Association of State Textbook Administrators
National School Supply and Equipment Association
National Standards Educators Association
Special Libraries Association
U.S. Metric Association

ELECTRICAL AND ELECTRONIC EQUIPMENT

Aeronautical Radio, Incorporated
Air Conditioning and Refrigeration Institute
American Insurance Services Group
American Lighting Association
American Society for Testing and Materials
American Society of Electroplated Plastics
Association of Edison Illuminating Companies
Association of Iron and Steel Engineers
Battery Council International
Certified Ballast Manufacturers
Construction Industry Manufacturers Association
Edison Electric Institute
Electrical Apparatus Service Association
Electrical Generating Systems Association
Electronic Industries Association
Electrostatic Discharge Association
Factory Mutual Research Corporation
Gas Appliance Manufacturers Association
Home Automation Association
Inchcape Testing Services
Institute for Interconnecting and Packaging Electronic Circuits
Institute of Electrical and Electronics Engineers
Insulated Cable Engineers Association
International Brotherhood of Electrical Workers
International Electrical Testing Association
International Municipal Signal Association
ISA, The International Society for Measurement and Control
Lightning Protection Association
Magnetic Materials Producers Association
National Association of Relay Manufacturers
National Electrical Contractors Association
National Electrical Manufacturers Association
National Marine Electronic Association
Occupational Safety and Health Administration (Labor)
Radio Technical Commission for Aeronautics
Radio Technical Commission for Maritime Services
Recreation Vehicle Industry Association
Rural Utilities Service (USDA)
Security Industry Association
Semiconductor Equipment and Materials Institute, International
Small Motors Manufacturers Association
Society of Allied Weight Engineers
Society of Naval Architects and Marine Engineers
Southwest Research Institute
Underwriters Laboratories
United Lightning Protection Association
Variable Resistive Components Institute

ENERGY

Air Conditioning and Refrigeration Institute
American Gas Association
American Insurance Services Group
American Nuclear Society
American Society for Testing and Materials
American Society of Heating, Refrigerating and Air-Conditioning Engineers
American Society of Mechanical Engineers
Association of Edison Illuminating Companies
Automatic Meter Reading Association
Construction Industry Manufacturers Association
Council of American Building Officials
Department of Energy
Edison Electric Institute
Electrical Generating Systems Association
Gas Appliance Manufacturers Association
Gas Processors Association
Health Physics Society
Heat Exchange Institute
Home Automation Association
Home Ventilating Institute
Institute of Electrical and Electronics Engineers
Institute of Nuclear Materials Management
Insulated Cable Engineers Association
Mine Safety and Health Administration (Labor)
Mineral Management Service (Interior)
National Association of Pipe Coating Applicators
National Conference of States on Building Codes and Standards
National Fenestration Rating Council
National Propane Gas Association
Portland Cement Association
Rural Utilities Service (USDA)
Sheet Metal and Air Conditioner Contractors National Association
Solar Rating and Certification Corporation

ENVIRONMENT

Acoustical Society of America
Aerospace Industries Association of America
Air and Waste Management Association
Air Conditioning and Refrigeration Institute
American Association of State Highway and Transportation Officials
American Bus Association
American Conference of Governmental Industrial Hygienists
American Forest and Paper Association
American Industrial Hygiene Association
American Insurance Services Group
American Petroleum Institute
American Society for Testing and Materials
American Society of Agricultural Engineers
American Society of Heating, Refrigerating and Air-Conditioning Engineers
American Society of Mechanical Engineers

American Society of Safety Engineers
American Textile Manufacturers Institute
AOAC International
Association of Engineering Geologists
Battery Council International
Construction Industry Manufacturers Association
Environment, Safety and Health (DOE)
Federal Aviation Administration (DOT)
Federal Highway Administration (DOT)
Glass Packaging Institute
Home Automation Association
Industrial Fabrics Association International
Institute of Environmental Sciences
Institute of Nuclear Materials Management
International Fabricare Institute
National Arborist Association
National Association of County Engineers
National Council on Radiation Protection and Measurements
National Environmental Balancing Bureau
National Pest Control Association
NSF International
Nuclear Regulatory Commission
Occupational Health (NASA)
Occupational Safety and Health Administration (Labor)
Portland Cement Association
Sheet Metal and Air Conditioner Contractors National Association
Steel Tank Institute
Water Pollution Control Federation
Water Quality Association

FACILITIES MANAGEMENT

Air Conditioning Contractors of America
American Hospital Association
American Petroleum Institute
American Society of Safety Engineers
Association of Higher Education Facilities Officers
Building Owners and Managers Association International
Electrical Generating Systems Association
Institute of Environmental Sciences
Multi-Housing Laundry Association
National Association of County Engineers
National Association of Industrial and Office Properties

FOOD AND BEVERAGES

American Association of Cereal Chemists
American Dairy Products Institute
American Oil Chemists Society
American Society for Enology and Viticulture
American Society of Brewing Chemists
American Spice Trade Association

AOAC International
Bureau of Alcohol, Tobacco and Firearms (Treasury)
Car Manufacturers Institute
Cookware Manufacturers Association
Corn Refiners Association
Dairy and Food Industries Supply Association
Department of Agriculture
Department of Defense
DFA of California
Diamond Walnut Manufacturers Institute
Distilled Spirits Council of the United States
Food and Drug Administration (HHS)
Food Processing Machinery and Supplies Association
Glass Packaging Institute
Health Care Financing Administration (HHS)
National Association of Photographic Manufacturers
National Automatic Merchandising Association
National Coffee Association of the U.S.A.
National Cottonseed Products Association
National Fisheries Institute
National Food Processors Association
National Institute of Oilseed Products
National Marine Fisheries Service (Commerce)
National Oilseed Processors Association
National Soft Drink Association
SGS, United States Testing Company
Sheet Metal and Air Conditioner Contractors National Association
USA Rice Federation
Veterans Affairs, Department of
Water Quality Association

GENERAL

American Design Drafting Association
American National Metric Council
American National Standards Institute
American Society for Testing and Materials
American Society of Safety Engineers
American Statistical Association
Association of Records Managers and Administrators
Bureau of Competition and Consumer Protection (FTC)
Color Association of the United States
Consumer Product Safety Commission
Department of Defense
Executive Office of the President
General Services Administration
International Trade Administration (Commerce)
National Institute of Standards and Technology (Commerce)
National Standards Educators Association
SGS - United States Testing Company
Standards Engineering Society
U.S. Metric Association
U.S. Product Data Association

U.S. Trade Representative, Executive Office of the President
Underwriters Laboratory
Uniform Code Council

GOVERNMENT OFFICIALS

American Association of Motor Vehicle Administrators
American Association of State Highway and Transportation Officials
American Conference of Governmental Industrial Hygienists
AOAC International
Association of American Plant Food Control Officials
Association of Bedding and Furniture Law Officials
Association of Official Seed Analysts
Building Officials and Code Administrators International
Council of American Building Officials
International Association of Electrical Inspectors
International Association of Plumbing and Mechanical Officials
International Conference of Building Officials
National Association of County Engineers
National Association of State Textbook Administrators
National Board of Boiler and Pressure Vessel Inspectors
National Civic League
National Conference of States on Building Codes and Standards
National Insurance Crime Bureau

HEATING, VENTILATING AND AIR HANDLING

Air-Conditioning and Refrigeration Institute
Air Conditioning Contractors of America
Air Distribution Institute
Air Movement and Control Association
American Boiler Manufacturers Association
American Conference of Governmental Industrial Hygienists
American Insurance Services Group
American Society of Heating, Refrigerating and Air-Conditioning Engineers
Associated Air Balance Council
Council of American Building Officials
Gas Appliance Manufacturers Association
Heat Exchange Institute
Home Automation Association
Home Ventilating Institute
Hydronics Institute
Institute of Environmental Sciences
Mechanical Contractors Association of America
National Association of Plumbing-Heating-Cooling Contractors
National Certified Pipe Welding Bureau
National Conference of States on Building Codes and Standards
National Environmental Balancing Bureau
Recreation Vehicle Industry Association
Sheet Metal, and Air Conditioning Contractors National Association
Solar Rating and Certification Corporation
Underwriters Laboratories

INDUSTRIAL EQUIPMENT

AIM USA

Air Conditioning and Refrigeration Institute
American Boiler Manufacturers Association
American Brush Manufacturers Association
American Gas Association
American Gear Manufacturers Association
American Insurance Services Group
American Ladder Institute
American Petroleum Institute
American Society for Testing and Materials
American Society of Mechanical Engineers
American Vacuum Society
AMT - The Association for Manufacturing Technology
Association of Iron and Steel Engineers
Cleaning Equipment Trade Association
Compressed Air and Gas Institute
Compressed Gas Association
Construction Industry Manufacturers Association
Contractors Pump Bureau
Conveyor Equipment Manufacturers Association
Cooling Tower Institute
Cordage Institute
Department of Defense
Ductile Iron Pipe Research Association
Electronic Industries Association
Environmental Industry Association
Expansion Joint Manufacturers Association
Factory Mutual Research Corporation
Fluid Controls Institute
Gas Appliance Manufacturers Association
Hand Tools Institute
Heat Exchange Institute
Hydraulic Institute
Hydronics Institute
Industrial Perforators Association
Industrial Safety Equipment Association
Industrial Truck Association
Institute of Caster Manufacturers
Institute of Clean Air Companies
International Staple, Nail and Tool Association
ISA, The International Society for Measurement and Control
Laser Institute of America
Manufacturers Standardization Society of the Valve and Fittings Industry
Masonry and Concrete Saw Manufacturers Institute
Material Handling Industry
Mechanical Power Transmission Association
Metal Ladder Manufacturers Association
Mine Safety and Health Administration (Labor)
Monorail Manufacturers Association
National Association of Chain Manufacturers
National Association of Graphic and Product Identification Manufacturers
National Association of Punch Manufacturers

National Board of Boiler and Pressure Vessel Inspectors
National Fluid Power Association
National Wood Pallet and Container Association
Occupational Safety and Health Administration (Labor)
Optical Product Code Council
Pipe Fabrication Institute
Portable Power Equipment Manufacturers Association
Process Industry Practices Initiative
Rack Manufacturers Institute
Resistance Welder Manufacturers Association
Robotic Industries Association
Rubber Manufacturers Association
Scaffolding, Shoring and Forming Institute
Small Motor Manufacturing Association
Steel Plate Fabricators Association
Steel Tank Institute
Sump and Sewage Pump Manufacturers Association
Tubular Exchange Manufacturers Association
Ultrasonic Industry Association
Underwriters Laboratories
Valve Manufacturers Association of America
Water Quality Association

INSTRUMENTS AND LABORATORY EQUIPMENT

American Crystallographic Association
American Society for Clinical Laboratory Science
American Society for Testing and Materials
American Society of Electroplated Plastics
American Watchmakers and Clockmakers Institute
Bureau of Alcohol, Tobacco and Firearms (Treasury)
Equipment and Tool Institute
Factory Mutual Research Corporation
Federal Coordinator for Meteorology (Commerce)
Fluid Controls Institute
Institute of Electrical and Electronics Engineers
Inter-Society Color Council
International Centre for Diffraction Data
ISA, The International Society for Measurement and Control
Joint Neurosurgical Committee on Devices and Drugs
Laser Institute of America
National Association of Jewelry Appraisers
National Institute of Standards and Technology (Commerce)
National Oceanic and Atmospheric Administration (Commerce)
Optical Society of America
Scale Manufacturers Association

MACHINERY

American Bearing Manufacturers Association
American Chain Association
American Gear Manufacturers Association

American Insurance Services Group
American Society for Testing and Materials
American Society of Agricultural Engineers
American Society of Mechanical Engineers
American Textile Machinery Association
AMT - The Association for Manufacturing Technology
Automotive Lift Institute
Baking Industry Sanitation Standards Committee
Compressed Air and Gas Institute
Construction Industry Manufacturers Association
Conveyor Equipment Manufacturers Association
Electrical Apparatus Service Association
Factory Mutual Research Corporation
Fluid Seal Association
Food Processing Machinery and Supplies Association
Forging Industry Association
Friction Materials Standards Institute
Grinding Wheel Institute
Hack and Band Saw Manufacturers of America
Mechanical Power Transmission Association
Monorail Manufacturers Association
National Electrical Manufacturers Association
National Fluid Power Association
Nebraska Power Laboratory
Packaging Machinery Manufacturers Institute
Resistance Welder Manufacturers Association
Robotic Industries Association
Semiconductor Equipment and Materials Institute
Small Motors Manufacturers Association
Society of Naval Architects and Marine Engineers
Society of the Plastics Industry
Wood Machinery Manufacturers of America

MANUFACTURING

Abrasive Grain Association
Adhesives Manufacturers Association
Aerospace Industries Association of America
AIM USA
American Brush Manufacturers Association
American Chain Association
American Insurance Services Group
American Ladder Institute
American Laminators Association
American National Metric Council
American National Standards Institute
American Petroleum Institute
American Society for Testing and Materials
American Society of Electroplated Plastics
American Society of Mechanical Engineers
American Textile Manufacturers Institute
American Welding Society
AMT - The Association for Manufacturing Technology

Automated Imaging Association
 Cast Iron Soil Pipe Institute
 Cemented Carbide Producers Association
 Certified Automotive Parts Association
 Coated Abrasives Manufacturers Institute
 Compressed Air and Gas Institute
 Concrete Plant Manufacturers Bureau
 Consortium For Advanced Manufacturing International
 Construction Industry Manufacturers Association
 Defense Industrial Supply Center (Interdepartmental Screw Thread Committee)
 Diamond Wheel Manufacturers Institute
 Factory Mutual Research Corporation
 Fluid Controls Institute
 Food Processing Machinery and Supplies Association
 Grinding Wheel Institute
 Hack and Band Saw Manufacturers Association of America
 Industrial Diamond Association of America
 Industrial Fasteners Institute
 Industrial Perforators Association
 Industrial Safety Equipment Association
 Institute of Industrial Engineers
 Insulated Cable Engineers Association
 International Staple, Nail and Tool Association
 Laser Institute of America
 Marking Device Association
 Metal Treating Institute
 Monorail Manufacturers Association
 National Association of Chain Manufacturers
 National Association of Punch Manufacturers
 National Certified Pipe Welding Bureau
 National Fastener Distributors Association
 North American Die Casting Association
 Occupational Safety and Health Administration (Labor)
 Optical Product Code Council
 Primary Glass Manufacturers Council
 Process Industry Practices Initiative
 Resistance Welder Manufacturers Association
 Robotic Industries Association
 Semiconductor Equipment and Materials Institute
 Standards Committee for Hi-Lok, Hi-Tigue, and Hi-Lite Products
 Steel Plate Fabricators Association
 Truck Trailer Manufacturers Association
 Tube and Pipe Association, International
 Tubular Rivet and Machine Institute
 United States Council for Automotive Research
 United States Cutting Tool Institute

MATERIALS AND FINISHES

(Also see Concrete, Textiles And Wood)

Abrasive Grain Association
 Aluminum Association
 American Association of State Highway and Transportation Officials

American Chemical Society
American Concrete Pavement Association
American Electroplaters Society
American Fiber Manufacturers Association
American Foundrymen's Society
American Galvanizers Association
American Hardboard Association
American Iron and Steel Institute
American Laminators Association
American Leather Chemists Association
American National Standards Institute
American Petroleum Institute
American Society for Testing and Materials
American Society of Electroplated Plastics
American Society of Mechanical Engineers
American Textile Manufacturers Institute
American Wire Producers Association
Asbestos Information Association North America
Asphalt Emulsion Manufacturers Association
Asphalt Institute
Association of Nonwoven Fabrics Industry
Association of Wall and Ceiling Industries - International
Brass and Bronze Ingot Manufacturers
Bureau of Alcohol, Tobacco and Firearms (Treasury)
Cemented Carbide Producers Association
Chemical Fabrics and Film Association
Chemical Manufacturers Association
Chemical Specialities Manufacturers Association
Chlorine Institute
Compressed Gas Association
Concrete Plant Manufacturers Bureau
Control Systems Manufacturers Division
Copper Development Association
Cosmetic, Toiletry and Fragrance Association
Cotton Warehouse Association of America
Department of Defense
Entomological Society of America
Environmental Protection Agency
Expanded Shale, Clay and Slate Institute
FACTS Institute for Research, Standards, and Terminology
Federal Highway Administration (DOT)
Felt Manufacturers Council of Northern Textile Association
Flat Glass Marketing Association
Forging Industry Association
Friction Materials Standards Institute
Glass Association of North America
Gold Institute
Gypsum Association
Indiana Limestone Institute of America
Industrial Diamond Association of America
Industrial Fabrics Association International
Institute of Makers of Explosives
International Cadmium Association
International Cast Polymer Association

Jewelers Vigilance Committee
Lead Industries Association
Magnetic Materials Producers Association
Manufacturing Jewelers and Silversmiths of America
Marble Institute of America
Materials and Methods Standards Association
Metal Powder Industries Federation
Metal Treating Institute
NACE International
National Association of Store Fixture Manufacturers
National Building Granite Quarries Association
National Cotton Council
National Lime Association
National Lubricating Grease Institute
National Stone Association
North American Die Casting Association
North American Insulation Manufacturers Association
Perlite Institute
Polyurethane Manufacturers Association
Porcelain Enamel Institute
Primary Glass Manufacturers Council
Refractories Institute
Rubber Manufacturers Association
Salt Institute
Semiconductor Equipment and Materials Institute
SGS - United States Testing Company
Silver Institute
Society for Experimental Mechanics
Society of Automotive Engineers
Society of the Plastics Industry
Southern Building Code Congress International
Southwest Research Institute
Steel Founders Society of America
Steel Manufacturers Association
Steel Service Center Institute
Steel Structures Painting Council
Technical Ceramics Manufacturers Association
United States Council for Automotive Research
United States Hide, Skin and Leather Association
Wire Reinforcement Institute

MEDICAL AND HEALTH CARE

Accrediting Bureau of Health Education Schools
American Academy of Pediatrics
American Alliance for Health, Physical Education, Recreation and Dance
American Association for Respiratory Care
American Association of Poison Control Centers
American Association of Psychiatric Services for Children
American College of Surgeons
American Dental Association
American Electroencephalographic Society
American Hospital Association

American Medical Association
American National Standards Institute
American Occupational Medical Association
American Optometric Association
American Pharmaceutical Association
American Psychiatric Association
American Psychoanalytic Association
American Society for Artificial Internal Organs
American Society for Clinical Laboratory Science
American Society for Testing and Materials
American Society of Anesthesiologists
American Speech-language and Hearing Association
American Thoracic Society
Asbestos Information Association North America
Association for the Advancement of Medical Instrumentation
College of American Pathologists
Compressed Gas Association
Defense Programs (DOE)
Entomological Society of America
Environment, Safety and Health (DOE)
Food and Drug Administration (HHS)
Health Care Financing Administration (HHS)
Health Industry Business Communications Council
Health Industry Manufacturers Association
Helicopter Association International
Institute of Environmental Sciences
Joint Neurosurgical Committee on Devices/Drugs
Mine Safety and Health Administration (Labor)
National Council for Prescription Drug Programs
NCCLS - The Clinical Laboratory Standards Organization
Occupational Health Office (NASA)
Orthopedic Surgical Manufacturers Association
Pharmaceutical Research and Manufacturers of America
Prevent Blindness America
U.S. Pharmacopeial Convention

MEDICAL DEVICES, EQUIPMENT AND INSTRUMENTS

American Association for Clinical Chemists
American College of Surgeons
American Dental Association
American Electroencephalographic Society
American Insurance Services Group
American Medical Association
American Optometric Association
American Society for Artificial Internal Organs
American Society for Testing and Materials
American Society of Anesthesiologists
American Society of Mechanical Engineers
American Thoracic Society
Association for the Advancement of Medical Instrumentation
Biological Stain Commission
Department of Defense

Food and Drug Administration (HHS)
Health Industry Business Communications Council
Health Industry Manufacturers Association
Institute of Environmental Sciences
Joint Neurosurgical Committee on Devices/Drugs
Laser Institute of America
National Electrical Manufacturers Association
NCCLS - The Clinical Laboratory Standards Organization
Orthopedic Surgical Manufacturers Association
Pharmaceutical Research and Manufacturers of America
Prevent Blindness America
Radiological Society of North America
U.S. Pharmacopeial Convention
Veterans Affairs, Department of

OFFICE PRODUCTS

American Society for Testing and Materials
Association for Information and Image Management, International
Association of Records Managers and Administrators
Business and Institutional Furniture Manufacturers Association
Human Factors Society
Joint Commission on Printing (Congress of the U.S.)
Marking Device Association
National Association of Graphic and Product Identification Manufacturers
Postal Service
Special Libraries Association

OPTICS, OPHTHALMIC PRODUCTS AND EYE PROTECTION

American Institute of Physics
American Optometric Association
American Society for Testing and Materials
American Society of Safety Engineers
Automated Imaging Association
Industrial Safety Equipment Association
Laser Institute of America
National Association of Manufacturing Opticians
Optical Laboratories Association
Optical Society of America
Prevent Blindness America

PACKAGING AND PAPER

Adhesives Manufacturers Association
AIM USA
American Forest and Paper Association
American Society for Testing and Materials
Can Manufacturers Institute
Composite Can and Tube Institute
Containerization and Intermodal Institute

Dairy and Food Industries Supply Association
Department of Defense
FACTS Institute for Research, Standards, and Terminology
Fibre Box Association
Flexible Packaging Association
Food Processing Machinery and Supplies Association
Glass Packaging Institute
Gravure Association of America
Joint Commission on Printing (Congress of the U.S.)
National Archives and Records Service (GSA)
National Food Processors Association
National Information Standards Organization
National Soft Drink Association
National Wooden Pallet and Container Association
Optical Product Code Council
Packaging Machinery Manufacturers Institute
Paperboard Packaging Council
Postal Service
Pressure Sensitive Tape Council
Printing Industries of America
Steel Shipping Container Institute
Technical Association of the Pulp and Paper Institute
Uniform Code Council

PHOTOGRAPHY

American National Standards Institute
American Society for Photogrammetry and Remote Sensing
Association for Information and Image Management, International
National Archives and Records Service (GSA)
National Association of Photographic Manufacturers
Optical Society of America
Photographic Society of America
Society of Motion Picture and Television Engineers

PLUMBING

American Pipe Fittings Association
American Society for Testing and Materials
American Society of Electroplated Plastics
American Society of Mechanical Engineers
American Society of Plumbing Engineers
Building Officials and Code Administrators International
Cast Iron Soil Pipe Institute
Council of American Building Officials
Ductile Iron Pipe Research Association
International Association of Plumbing and Mechanical Officials
International Cast Polymer Association
International Conference of Building Officials
Manufacturers Standardization Society of the Valve and Fittings Industry
Mechanical Contractors Association of America
National Association of Plumbing-Heating-Cooling Contractors

National Certified Pipe Welding Bureau
National Clay Pipe Institute
National Conference of States on Building Codes and Standards
National Spa and Pool Institute
NSF International
Plastics Pipe Institute
Plumbing and Drainage Institute
Recreation Vehicle Industry Association
Society of Sanitary Engineering
Southern Building Code Congress International
Sump and Sewage Pump Manufacturers Association
Valve Manufacturers Association of America
Veterans Affairs, Department of
Water Quality Association
Water Systems Council

PUBLIC HEALTH

Accrediting Bureau of Health Education Schools
American Academy of Pediatrics
American Association of Blood Banks
American Conference of Governmental Industrial Hygienists
American Industrial Hygiene Association
American Medical Association
American Occupational Medical Association
American Optometric Association
American Public Health Association
American Society for Testing and Materials
American Thoracic Society
American Water Works Association
AOAC International
Center for Disease Control (HHS)
Entomological Society of America
Environmental Industry Association
Food and Drug Administration (HHS)
Health Care Financing Administration (HHS)
Health Physics Society
Illuminating Engineering Society of North America
National Association of Plumbing-Heating-Cooling Contractors
National Automatic Merchandising Association
National Institute of Infant Services
National Pest Control Association
NCCLS - The Clinical Laboratory Standards Organization
NSF International
Portable Sanitation Association
Prevent Blindness America
Snell Memorial Foundation
Society of Sanitary Engineering
Textile Rental Services Association of America
U.S. Geological Survey (Interior)
Water Quality Association

QUALITY ASSURANCE AND TESTING

ACIL

Aerospace Industries Association of America
American Association for Clinical Chemistry
American Association for Laboratory Accreditation
American Association of Textile Chemists and Colorists
American Chemical Society
American Crystallographic Association
American Dairy Products Institute
American Hospital Association
American Insurance Services Group
American Leather Chemists Association
American National Standards Institute
American Oil Chemists Society
American Society for Clinical Laboratory Science
American Society for Non-Destructive Testing
American Society for Quality Control
American Society for Testing and Materials
American Society of Brewing Chemists
American Society of Mechanical Engineers
American Statistical Association
AOAC International
Association of Official Seed Analysts
Automated Imaging Association
Biological Stain Commission
Bureau of Alcohol, Tobacco and Firearms (Treasury)
College of American Pathologists
Construction Industry Manufacturers Association
Cosmetic, Toiletry and Fragrance Association
Factory Mutual Research Corporation
Gemological Institute of America
Inchcape Testing Services
Institute of Electrical and Electronics Engineers
Institute of Environmental Sciences
Institute of Nuclear Materials Management
Inter-Society Color Council
International Electrical Testing Association
Mine Safety and Health Administration (Labor)
National Association of Photographic Manufacturers
National Conference of States on Building Codes and Standards
National Environmental Balancing Bureau
National Fenestration Rating Council
National Fire Protection Association
National Institute of Standards and Technology (Commerce)
National Oak Flooring Manufacturers Association
National Pest Control Association
NCCLS - The Clinical Laboratory Standards Organization
Office of Acquisition (GSA)
Portland Cement Association
Radio Technical Commission for Aeronautics
SGS - United States Testing Company
Sheet Metal and Air Conditioner Contractors National Association
Society for Experimental Mechanics

Society of Automotive Engineers
Solar Rating and Certification Corporation
Southwest Research Institute
Toy Manufacturers of America
Underwriters Laboratories
United States Customs Service (Treasury)

RECREATION AND SPORTS

American Alliance for Health, Physical Education, Recreation and Dance
American Automobile Association
American Boat and Yacht Council
American Bowling Congress
American Society for Testing and Materials
American Sport Fishing Association
Billiard Congress of America
Color Association of the United States
National Association of Rocketry
National Federation of State High School Associations
National Golf Car Manufacturers Association
National Model Railroad Association
National Rifle Association of America
National Ski Areas Association
Prevent Blindness America
Recreation Vehicle Industry Association
SFI Foundation
Snell Memorial Foundation
Snowmobile Safety and Certification Committee
Sporting Arms and Ammunition Manufacturers Institute
Sports Car Club of America
U.S. Tennis Court and Track Builders Association
Underwriters Laboratories
United States Coast Guard (DOT)
United States Golf Association

SAFETY, FIRE PROTECTION AND PUBLIC SAFETY

Alliance of American Insurers
American Association of Motor Vehicle Administrators
American Automobile Association
American Boat and Yacht Council
American Brush Manufacturers Association
American Bureau of Shipping
American Bus Association
American Conference of Governmental Industrial Hygienists
American Fiber Manufacturers Association
American Foundrymen's Society
American Hospital Association
American Hotel and Motel Association
American Industrial Hygiene Association
American Insurance Services Group
American Ladder Institute

American National Standards Institute
American Nuclear Society
American Petroleum Institute
American Society for Testing and Materials
American Society of Agricultural Engineers
American Society of Civil Engineers
American Society of Mechanical Engineers
American Society of Safety Engineers
American Textile Machinery Association
American Textile Manufacturers Institute
American Welding Society
AOAC International
Art and Creative Materials Institute
Asbestos Information Association North America
Associated Locksmiths of America
Association for the Advancement of Medical Instrumentation
Association of American Railroads
Association of Home Appliance Manufacturers
Building Officials and Code Administrators International
Building Technologies (DOE)
Center for Disease Control (HHS)
Chemical Specialties Manufacturers Association
Chlorine Institute
Coated Abrasives Manufacturers Institute
Compressed Gas Association
Compressed Air and Gas Institute
Concrete Sawing and Drilling Association
Construction Industry Manufacturers Association
Consumer Product Safety Commission
Cordage Institute
Council of American Building Officials
Dairy and Food Industries Supply Association
Department of Transportation
Diamond Wheel Manufacturers Institute
Distilled Spirits Council of the United States
Environment, Safety and Health (DOE)
Factory Mutual Research Corporation
Federal Aviation Administration (DOT)
Federal Highway Administration (DOT)
Flight Safety Foundation
Food and Drug Administration (HHS)
Grinding Wheel Institute
Helicopter Association International
Human Factors Society
Industrial Fabrics Association International
Industrial Safety Equipment Association
Institute of Electrical and Electronics Engineers
Institute of Makers of Explosives
Institute of Nuclear Materials Management
Institute of Transportation Engineers
International Association of Electrical Inspectors
International Association of Plumbing and Mechanical Officials
International Conference of Building Officials
International Electrical Testing Association

International Fabricare Institute
International Municipal Signal Association
International Sleep Products Association
International Society of Arboriculture
Laborers International Union of North America
Laser Institute of America
Lightning Protection Institute
Masonry and Concrete Saw Manufacturers Institute
Mechanical Contractors Association of America
Mine Safety and Health Administration (Labor)
Minerals Management Service (Interior)
National Arborist Association
National Association of Plumbing-Heating-Cooling Contractors
National Board of Boiler and Pressure Vessel Inspectors
National Conference of States on Building Codes and Standards
National Coordinating Council on Emergency Management
National Cotton Council of America
National Council on Radiation Protection and Measurements
National Electrical Manufacturers Association
National Elevator Industry
National Federation of State High School Associations
National Fire Protection Association
National Fire Sprinkler Association
National Institute of Standards and Technology (Commerce)
National Insurance Crime Bureau
National Propane Gas Association
National Rifle Association of America
National Safety Council
National Ski Areas Association
National Spa and Pool Institute
NCCLS - The Clinical Laboratory Standards Organization
Nuclear Regulatory Commission
Occupational Safety and Health Administration (Labor)
Painting and Decorating Contractors of America
Portland Cement Association
Powder Actuated Tool Manufacturers Institute
Prevent Blindness America
Printing and Decorating Contractors of America
Public Buildings Service (GSA)
Radio Technical Commission for Maritime Services
Recreation Vehicle Industry Association
Robotic Industries Association
Scaffolding, Shoring and Forming Institute
Security Industry Association
Sheet Metal and Air Conditioner Contractors National Association
Snell Memorial Foundation
Snowmobile Safety and Certification Committee
Society of Fire Protection Engineers
Society of Naval Architects and Marine Engineers
Southern Building Code Congress International
Sporting Arms and Ammunition Manufacturers Institute
Toy Manufacturers of America
Underwriters Laboratories
United Lightning Protection Association

Veterans Affairs, Department of
Wood Machinery Manufacturers of America

SANITATION

American Association of Cereal Chemists
American Dairy Products Institute
American Public Health Association
American Society of Plumbing Engineers
American Water Works Association
AOAC International
Baking Industry Sanitation Standards Committee
Cast Iron Soil Pipe Institute
Dairy and Food Industries Supply Association
Environmental Industry Association
Environmental Protection Agency
Housing and Urban Development, Department of
National Association of Photographic Manufacturers
National Association of Plumbing-Heating-Cooling Contractors
National Automatic Merchandising Association
National Clay Pipe Institute
National Pest Control Association
National Spa and Pool Institute
NSF International
Plumbing and Drainage Institute
Portable Sanitation Association
Society of Sanitary Engineering
Textile Rental Services Association of America
Water Pollution Control Federation
Water Quality Association

SOCIAL WELFARE

American Association of Poison Control Centers
American Association of Psychiatric Services for Children
National Library Service for the Blind and Physically Handicapped (Library
National Safety Council
Prevent Blindness America
Public Buildings Service (GSA)
Snell Memorial Foundation
Standards Engineering Society
United States Council for International Business

TEXTILE AND CLOTHING

American Association of Textile Chemists and Colorists
American Fiber Manufacturers Association
American Furniture Manufacturers Association
American Society for Testing and Materials
American Textile Machinery Association

American Textile Manufacturers Institute
Association of Nonwoven Fabrics Industry
Chemical Fabrics and Film Association
Color Association of the United States
Consumer Product Safety Commission
Cordage Institute
Department of Defense
Elastic Fabric Manufacturers Council of Northern Textile Association
Felt Manufacturers Council of Northern Textile Association
Industrial Fabrics Association International
Industrial Safety Equipment Association
Institute of Environmental Sciences
International Fabricare Institute
Multi-Housing Laundry Association
National Association of Hosiery Manufacturers
National Cotton Council of America
Secondary Materials and Recycled Textiles
SGS - United States Testing Company
Textile Rental Services Association of America

TRANSPORTATION

Aeronautical Radio, Incorporated
Aerospace Industries Association of America
Air Transport Association of America
Aircraft Owners and Pilots Association
American Association of Motor Vehicle Administrators
American Association of State Highway and Transportation Officials
American Automobile Association
American Automobile Manufacturers Association of the United States
American Boat and Yacht Council
American Bureau of Shipping
American Bus Association
American Forest and Paper Association
American Helicopter Society
American Institute of Aeronautics and Astronautics
American Petroleum Institute
American Railway Engineering Association
American Road and Transportation Builders Association
American Society for Testing and Materials
American Society of Mechanical Engineers
Asphalt Institute
Association of American Railroads
Automotive Industry Action Group
Automotive Lift Institute
Certified Automotive Parts Association
Compressed Gas Association
Containerization and Intermodal Institute
Department of Transportation
Federal Aviation Administration (DOT)
Federal Highway Administration (DOT)
Flight Safety Foundation
General Aviation Manufacturers Association

Helicopter Association International
Industrial Fabrics Association International
Institute of Nuclear Materials Management
Institute of Transportation Engineers
International Bridge, Tunnel and Turnpike Association
International Mobile Air Conditioning Association
Maritime Administration (DOT)
National Association of Chain Manufacturers
National Association of County Engineers
National Cargo Bureau
National Institute of Standards and Technology (Commerce)
National Insurance Crime Bureau
National Tire Dealers and Retreaders Association
National Wood Pallet and Container Association
Occupational Safety and Health Administration (Labor)
Railway Tie Association
Recreation Vehicle Industry Association
SFI Foundation
Snell Memorial Foundation
Society of Allied Weight Engineers
Society of Automotive Engineers
Society of Naval Architects and Marine Engineers
Steel Shipping Container Institute
Tire and Rim Association
Truck Trailer Manufacturers Association
Uniform Code Council
United States Council for Automotive Research

WOOD AND WOOD PRODUCTS

Alliance for Telecommunications Industry Solutions
American Forest and Paper Association
American Hardboard Association
American Institute of Timber Construction
American Ladder Institute
American Laminators Association
American Lumber Standards Committee
American Society for Testing and Materials
American Wood-Preservers Association
American Wood Preservers Bureau
Architectural Woodwork Institute
Cedar Shake and Shingle Bureau
Engineered Wood Association
FACTS Institute for Research, Standards, and Terminology
Hardwood Plywood and Veneer Manufacturers Association
Housing and Urban Development, Department of
National Association of Store Fixture Manufacturers
National Bark and Soil Producers Association
National Dimension Manufacturers Association
National Oak Flooring Manufacturers Association
National Particleboard Association
National Sash and Door Jobbers Association
National Wood Pallet and Container Association

National Wood Window and Door Association
Northeastern Lumber Manufacturers Association
Railway Tie Association
Redwood Inspection Service
Southern Cypress Manufacturers Association
Southern Forest Producers Association
Southern Pine Inspection Bureau
Technical Association of the Pulp and Paper Industry
Truss Plate Institute
West Coast Lumber Inspection Bureau
Western Wood Products Association
Wood Machinery Manufacturers of America
Wood Moulding and Millwork Producers Association
Woodwork Institute of California

5.2 ACRONYMS AND INITIALS

This list of acronyms and initials serves to identify organizations, however, there is no exclusivity: there are four NFPA's, three AIA's and other duplications.

AA	Aluminum Association
AAA	American Automobile Association
AAAA	American Association of Advertising Agencies
AABB	American Association of Blood Banks
AABC	Associated Air Balance Council
AACC	American Association for Clinical Chemistry
AACC	American Association of Cereal Chemists
AACP	Association of Asbestos Cement Pipe Producers
AAFCO	Association of American Feed Control Officials
AAHPERD	American Alliance for Health, Physical Education, Recreation and Dance
AAI	Alliance of American Insurers
AAMA	American Architectural Manufacturers Association
AAMA	American Automobile Manufacturers Association of the United States
AAMI	Association for the Advancement of Medical Instrumentation
AAVVA	American Association of Motor Vehicle Administrators
AAAN	American Association of Nurserymen
AAP	American Academy of Pediatrics
AAP	Association of American Publishers
AAPOC	American Association of Poison Control Centers
AAFFCO	Association of American Plant Food Control Officials
AAFSC	American Association of Psychiatric Services for Children
AAR	Association of American Railroads
AARC	American Association for Respiratory Care
AASHTO	American Association of State Highway and Transportation Officials
AATCC	American Association of Textile Chemists and Colorists
ABA	American Bus Association
ABA	Blue Anchor
ABC	American Bowling Congress
ABFLO	Association of Bedding and Furniture Law Officials
ABHES	Accrediting Bureau of Health Education Schools
ABMA	American Bearing Manufacturers Association
ABMA	American Boiler Manufacturers Association
ABMA	American Brush Manufacturers Association
ABS	American Bureau of Shipping
ABYC	American Boat and Yacht Council
ACA	American Chain Association
ACA	American Crystallographic Association
ACCA	Air Conditioning Contractors of America
ACGIH	American Conference of Governmental Industrial Hygienists
ACI	American Concrete Institute
ACIL	American Council of Independent Laboratories
ACM	Association for Computing Machinery
ACMI	Art and Creative Materials Institute
ACPA	American Concrete Pavement Association
ACPA	American Concrete Pipe Association

ACPFA American Concrete Pressure Pipe Association
 ACS American Chemical Society
 ACS American College of Surgeons
 ACSM American Congress on Surveying and Mapping
 ACTS Advisory Commission on Textbook Specifications
 ADA American Dental Association
 ADDA American Design Drafting Association
 ADI Air Distribution Institute
 ADPA American Defense Preparedness Association
 ADPI American Dairy Products Institute
 AEG Association of Engineering Geologists
 AEIC Association of Edison Illuminating Companies
 AEMA Asphalt Emulsion Manufacturers Association
 AER Association for Education and Rehabilitation of the Blind and Visually Impaired
 AES American Electroencephalographic Society
 AESF American Electroplaters and Surface Finishers Society
 AFA American Fence Association
 AFMA American Fiber Manufacturers Association
 AFNA American Furniture Manufacturers Association
 AFPA American Forest and Paper Association
 AFS American Foundrymen's Society
 AGA Abrasive Grain Association
 AGA American Galvanizers Association
 AGA American Gas Association
 AGCA Associated General Contractors of America
 AGMA American Gear Manufacturers Association
 AHA American Hardboard Association
 AHA American Hospital Association
 AHAM Association of Home Appliance Manufacturers
 AHEFO Association of Higher Education Facilities Officers
 AH&MA American Hotel and Motel Association
 AHS American Helicopter Society
 AI Asphalt Institute
 AIA Aerospace Industries Association of America
 AIA American Institute of Architects
 AIA Automated Imaging Association
 AIAA American Institute of Aeronautics and Astronautics
 AIAG American Insurance Service Group
 AIAG Automotive Industry Action Group
 AIA/NA Asbestos Information Association North America
 AIHA American Industrial Hygiene Association
 AIIM Association for Information and Image Management, International
 AIM AIM USA
 AIP American Institute of Physics
 AISC American Institute of Steel Construction
 AISE Association of Iron and Steel Engineers
 AISG American Insurance Services Group
 AISI American Iron and Steel Institute
 AITC American Institute of Timber Construction
 ALA American Laminators Association
 ALA American Library Association
 AIA American Lighting Association
 ALA Associated Locksmiths of America

ALCA	American Leather Chemists Association
ALI	American Ladder Institute
ALI	Automotive Lift Institute
ALSC	American Lumber Standards Committee
AMA	Adhesives Manufacturers Association
AMA	American Medical Association
AMCA	Air Movement and Control Association
AMRA	Automatic Meter Reading Association
AMS	Agriculture Marketing Service (USDA)
AMT	The Association for Manufacturing Technology
ANFI	Association of Nonwoven Fabrics Industry
ANMC	American National Metric Council
ANS	American Nuclear Society
ANSI	American National Standards Institute
AOA	American Optometric Association
AOAC	AOAC, International
AOCS	American Oil Chemists Society
AOXA	American Occupational Medical Association
AOPA	Aircraft Owners and Pilots Association
AOSA	Association of Official Seed Analysts
AOSCA	Association of Official Seed Certifying Agencies
APA	American Psychiatric Association
APA	American Psychoanalytical Association
APFA	American Pipe Fittings Association
APhA	American Pharmaceutical Association
APHA	American Public Health Association
API	American Petroleum Institute
ARA	Agriculture Retailers Association
AREA	American Railway Engineering Association
ARI	Air-Conditioning and Refrigeration Institute
ARINC	Aeronautical Radio, Incorporated
ARMA	Asphalt Roofing Manufacturers Association
ARMA	Association of Records Managers and Administrators
ARPI	Automotive Refrigeration Products Institute
ARTBA	American Road and Transportation Builders Association
ASA	Acoustical Society of America
ASA	American Society of Anesthesiologists
ASA	American Soybean Association
ASA	American Statistical Association
ASAE	American Society of Agricultural Engineers
ASAIC	American Society for Artificial Internal Organs
ASBC	American Society of Brewing Chemists
ASBE	American Society of Bakery Engineers
ASC	Accredited Standards Committee X9-Financial Services
ASCE	American Society of Civil Engineers
ASCLS	American Society for Clinical Laboratory Science
ASEP	American Society of Electroplated Plastics
ASEV	American Society for Enology and Viticulture
ASFA	American Sport Fishing Association
ASHA	American Speech-Language and Hearing Association
ASHRAE	American Society of Heating, Refrigerating and Air Conditioning Engineers
ASME	American Society of Mechanical Engineers
ASNT	American Society for Non-Destructive Testing

ASPE American Society of Plumbing Engineers
 ASPPT Association for Suppliers of Printing and Publishing Technologies
 ASPRS American Society for Photogrammetry and Remote Sensing
 ASQC American Society for Quality Control
 ASSE American Society of Safety Engineers
 ASTA American Spice Trade Association
 ASTM American Society for Testing and Materials
 ATA Air Transport Association of America
 ATIS Alliance for Telecommunications Industry Solutions
 ATM ATM Forum
 ATMA American Textile Machinery Association
 ATMI American Textiles Manufacturers Institute
 ATS American Thoracic Society
 ATSC Advanced Television Systems Committee
 AVS American Vacuum Society
 AWCI Association of Wall and Ceiling Industries, International
 AWI American Watchmakers-Clockmakers Institute
 AWI Architectural Woodwork Institute
 AWMA Air and Waste Management Association
 AWMA American Walnut Manufacturers Association
 AWPA American Wire Producers Association
 AWPA American Wood-Preservers Association
 AWPB American Wood Preservers Bureau
 AWS American Welding Society
 AWWA American Water Works Association
 A2LA American Association for Laboratory Accreditation
 BATF Bureau of Alcohol, Tobacco, and Firearms (Treasury)
 BBIM Brass and Bronze Ingot Manufacturers
 BC Bureau of Census (Commerce)
 BCA Billiard Congress of America
 BCI Battery Council International
 BCR Bellcore
 BHMA Builders Hardware Manufacturers Association
 BIA Binding Industries of America
 BIA Brick Institute of America
 BIFMA Business and Institutional Furniture Manufacturers Association
 BISG Book Industry Study Group
 BISSC Baking Industry Sanitation Standards Committee
 BMI Book Manufacturers Institute
 BOCA Building Officials and Code Administrators International
 BOMA Building Owners and Management Association International
 BSC Biological Stain Commission
 BT Building Technologies (DOE)
 CABO Council of American Building Officials
 CAGI Compressed Air and Gas Institute
 CAMI Coated Abrasives Manufacturers Institute
 CAMI Consortium for Advanced Manufacturing International
 CAP College of American Pathologists
 CAPA Certified Automotive Parts Association
 CAUS Color Association of the United States
 CBM Certified Ballast Manufacturers
 CCPA Cemented Carbide Producers Association

CCTI	Composite Can and Tube Institute
CDA	Copper Development Association
CDC	Center for Disease Control (HHS)
CEMA	Conveyor Equipment Manufacturers Association
CETA	Cleaning Equipment Trade Association
CFA	Consumer Federation of America
CFFA	Chemical Fabrics and Film Association
CGA	Compressed Gas Association
CI	Chlorine Institute
CI	Cordage Institute
CII	Containerization and Intermodal Institute
CIMA	Construction Industry Manufacturers Association
CISC	Ceiling and Interior Systems Construction Association
CISPI	Cast Iron Soil Pipe Institute
CLFMI	Chain Link Fence Manufacturers Institute
CMA	Chemical Manufacturers Association
CMA	Cookware Manufacturers Association
CMI	Can Manufacturers Institute
COS	Corporation for Open Systems International
CPB	Contractors Pump Bureau
CPMB	Concrete Plant Manufacturers Bureau
CPSC	Consumer Product Safety Commission
CRA	Corn Refiners Association
CRI	Carpet and Rug Institute
CRMA	Commercial Refrigerator Manufacturers Association
CRSI	Concrete Reinforcing Steel Institute
CS	Collection Services (LC)
CSDA	Concrete Sawing and Drilling Association
CSI	Construction Specifications Institute
CSMA	Chemical Specialties Manufacturers Association
CSSB	Cedar Shake and Shingle Bureau
CTFA	Cosmetic, Toiletry and Fragrance Association
CTI	Cooling Tower Institute
CWAA	Cotton Warehouse Association of America
DFAC	DFA of California
DFISA	Dairy and Food Industries Supply Association
DHI	Door and Hardware Institute
DIPRA	Ductile Iron Pipe Research Association
DISA	Data Interchange Standards Association
DISA	Defense Information Systems Agency (DOD)
DORCMA	Door Operator and Remote Controls Manufacturers Association
DP	Defense Program, Assistant Secretary (DOE)
DPMA	Data Processing Management Association
DSCUS	Distilled Spirits Council of the United States
DWG	Diamond Walnut Growers
DWMI	Diamond Wheel Manufacturers Institute
EASA	Electrical Apparatus Service Association
EDA	Electrostatic Discharge Association
EEL	Edison Electric Institute
EFMC	Elastic Fabric Manufacturers Council of Northern Textile Association
EGSA	Electrical Generating Systems Association
EIA	Electronic Industries Association
EIA	Energy Information Administration (DOE)

EIA Environmental Industry Association
 EJMA Expansion Joint Manufacturers Association
 EMI Equipment Manufacturers Institute
 EMRC Electronic Media Rating Council
 EPA Environmental Protection Agency
 ESA Entomological Society of America
 ESCSI Expanded Shale, Clay and Slate Institute
 ESH Environment, Safety, and Health (DOE)
 EPI Equipment and Tool Institute
 EWA APA The Engineered Wood Association
 FAA Federal Aviation Administration (DOT)
 FACTS FACTS Institute for Research, Standards and Terminology
 FAF Financial Accounting Foundation
 FAS Foreign Agricultural Service (USDA)
 FBA Fibre Box Association
 FCC Federal Communications Commission
 FCI Fluid Controls Institute
 FCM Federal Coordinator for Metrology (Commerce)
 FDA Food and Drug Administration (HHS)
 FGDC Federal Geographic Data Committee (DI)
 FHA Federal Highway Administration (DOT)
 FIA Forging Industry Association
 FMC Felt Manufacturers Council of Northern Textile Association
 FMRC Factory Mutual Research Corporation
 FMSI Friction Materials Standards Institute
 FPA Flexible Packaging Association
 FPMSA Food Processing Machinery and Supplies Association
 FS Forest Service (USDA)
 FSA Fluid Sealing Association
 FSP Flight Safety Foundation
 FSIS Food Safety and Inspection Service (USDA)
 FTC Federal Trade Commission
 GA Gypsum Association
 GAA Gravure Association of America
 GAMA Gas Appliance Manufacturers Association
 GAMA General Aviation Manufacturers Association
 GANA Glass Association of North America
 GCA Graphic Communications Association
 GI Gold Institute
 GIA Gemological Institute of America
 GIPSA Grain Inspection, Packers and Stockyard Administration
 (USDA)
 GPA Gas Processors Association
 GPI Glass Packaging Institute
 GWI Grinding Wheel Institute
 HAA Home Automation Association
 HAI Helicopter Association International
 HBSMAA Hack and Band Saw Manufacturers Association of America
 HCFA Health Care Financing Administration (HHS)
 HEI Heat Exchange Institute
 HFS Human Factors Society
 HI Hair International
 HI Hydraulic Institute
 HI Hydronics Institute

HIBCC Health Industry Business Communications Council
 HIMA Health Industry Manufacturers Association
 HLS Health Level Seven
 HPS Health Physics Society
 HPVMA Hardwood Plywood and Veneer Manufacturers Association
 HTI Hand Tools Institute
 HUD Housing and Urban Development, Department of
 HVI Home Ventilating Institute
 IA Irrigation Association
 IAEI International Association of Electrical Inspectors
 IAPMO International Association of Plumbing and Mechanical
 Officials
 IBEW International Brotherhood of Electrical Workers
 IBTTA International Bridge, Tunnel and Turnpike Association
 ICA International Cadmium Association
 ICAC Institute of Clean Air Companies
 ICBO International Conference of Building Officials
 ICC Inter-society Color Council
 ICDD International Centre for Diffraction Data
 ICEA Insulated Cable Engineers Association
 ICIA International Communications Industries Association
 ICM Institute of Caster Manufacturers
 ICMA International City Management Association
 ICPA International Cast Polymer Association
 IDAA Industrial Diamond Association of America
 IDEA International District Energy Association
 IEEE Institute of Electrical and Electronics Engineers
 IES Illuminating Engineering Society of North America
 IES Institute of Environmental Sciences
 IETA International Electrical Testing Association
 IFAC Industry Functional Advisory Committee on Standards Trade
 Policy Matters (Commerce)
 IFAI Industrial Fabrics Association International
 IFI Industrial Fasteners Institute
 IFI International Fabricare Institute
 IIA The Institute of Internal Auditors
 IIAR International Institute of Ammonia Refrigeration
 IIE Institute of Industrial Engineers
 IIPEC Institute for Interconnecting and Packaging Electronic
 Circuits
 ILIA Indiana Limestone Institute of America
 IMACA International Mobile Air Conditioning Association
 IME Institute of Makers of Explosives
 IMI International Masonry Institute
 IMSA International Municipal Signal Association
 INMM Institute of Nuclear Materials Management
 IPA Industrial Perforators Association
 IRI Industrial Risk Insurers
 IRM Information Resources Management (GSA)
 IRM Information Resource Management (USDA)
 IRS Internal Revenue Service (Treasury)
 IS Internet Society
 ISA International Society of Arboriculture
 ISA ISA, the International Society for Measurement and Control

ISDSI Insulated Steel Door Systems Institute
 ISEA Industrial Safety Equipment Association
 ISNTA International Staple, Nail and Tool Association
 ISPA International Sleep Products Association
 ISTA International Safe Transit Association
 ITA Industrial Truck Association
 ITA International Trade Administration (Commerce)
 ITA, The International Recording Media Association
 ITE Institute of Transportation Engineers
 ITI Information Technology Industry Council
 ITS Inchcape Testing Services/ETL Testing Laboratories
 ITS Information Technology Services (LC)
 JCP Joint Committee on Printing (Congress of the United States)
 JNCDD Joint Neurosurgical Committee on Devices and Drugs
 JPMA Juvenile Products Manufacturers Association
 JVC Jewelers Vigilance Committee
 LBI Library Binding Institute
 LIA Laser Institute of America
 LIA Lead Industries Association
 LIUNA Laborers International Union of North America
 LPI Lightning Protection Institute
 MA Maritime Administration (DOT)
 MBMA Metal Building Manufacturers Association
 MCAA Mechanical Contractors Association of America
 MCSMI Masonry and Concrete Saw Manufacturers Institute
 MDA Marking Device Association
 MHI Manufactured Housing Institute
 MHI Material Handling Industry
 MIA Marble Institute of America
 MJSA Manufacturing Jewelers and Silversmiths of America
 MLA Multi-housing Laundry Association
 MLMA Metal Ladder Manufacturers Association
 MMA Monorail Manufacturers Association
 MMPA Magnetic Materials Producers Association
 MMS Mineral Management Service (DI)
 MMSA Materials and Methods Standards Association
 MPIF Metal Powder Industries Federation
 MPTA Mechanical Power Transmission Association
 MSHA Mine Safety and Health Administration (DOL)
 MSSVFI Manufacturers Standardization Society of the Valve and Fittings Industry

 MTI Metal Treating Institute
 NAA National Arborist Association
 NAAMM National Association of Architectural Metal Manufacturer
 NAB National Association of Broadcasters
 NACE National Association of County Engineers
 NACEI NACE International
 NACHA National Automated Clearing House Association
 NACM National Association of Chain Manufacturers
 NADCA National Air Duct Cleaners Association
 NADCA North American Die Casting Association
 NAGDM National Association of Garage Door Manufacturers
 NAGPIM National Association of Graphic and Product Identification Manufacturers

NAHM National Association of Hosiery Manufacturers
 NAIMA North American Insulation Manufacturers Association
 NAIOP National Association of Industrial and Office Properties
 NAJA National Association of Jewelry Appraisers
 NAMA National Automatic Merchandising Association
 NAMO National Association of Manufacturing Opticians
 NAPCA National Association of Pipe Coating Applicators
 NAPHCC National Association of Plumbing-Heating-Cooling Contractors
 NAPM National Association of Photographic Manufacturers
 NAPM National Association of Punch Manufacturers
 NAPM National Association of Purchasing Management
 NAR National Association of Rocketry
 NARA National Archives and Records Administration (GSA)
 NARM National Association of Relay Manufacturers
 NASFM National Association of Store Fixture Manufacturers
 NASTA National Association of State Textbook Administrators
 NBBPVI National Board of Boiler and Pressure Vessel Inspectors
 NBGQA National Building Granite Quarries Association
 NBSPA National Bark and Soil Producers Association
 NCA National Coffee Association of the USA
 NCB National Cargo Bureau
 NCCA National Coil Coaters Association
 NCCA National Cotton Council of America
 NCCEM National Coordinating Council on Emergency Management
 NCCLS NCCLS-The Clinical Laboratory Standards Organization
 NCL National Civic League
 NCMA National Concrete Masonry Association
 NCPA National Cottonseed Products Association
 NCPDP National Council for Prescription Drug Program
 NCPPI National Clay Pipe Institute
 NCPMA National Clay Pot Manufacturers Association
 NCPWB National Certified Pipe Welding Bureau
 NCRPM National Council on Radiation Protection and Measurements
 NCSBCS National Conference of States on Building Codes and Standards
 NCSPA National Corrugated Steel Pipe Association
 NDMA National Dimension Manufacturers Association
 NEBB National Environmental Balancing Bureau
 NECA National Electrical Contractors Association
 NEI National Elevator Industry
 NEMA National Electrical Manufacturers Association
 NFAIS National Federation of Abstracting and Information Services
 NFDA National Fastener Distributors Association
 NFI National Fisheries Institute
 NFPA National Fire Protection Association
 NFPA National Fluid Power Association
 NFPA National Food Processors Association
 NFPA National Forest Products Association
 NFRC National Fenestration Rating Council
 NFSA National Fire Sprinkler Association
 NFSHSA National Federation of State High School Associations
 NGCMA National Golf Car Manufacturers Association
 NGWA National Ground Water Association
 NHLA National Hardwood Lumber Association

NHTSA National Highway Traffic Safety Administration (DOT)
 NIBS National Institute of Building Sciences
 NICB National Insurance Crime Bureau
 NIIS National Institute of Infant Services
 NIJ National Institute of Justice (DOJ)
 NIOP National Institute of Oilseed Products
 NISO National Information Standards Organization
 NIST National Institute of Standards and Technology (Commerce)
 NKBA National Kitchen and Bath Association
 NLA National Lime Association
 NLGI National Lubricating Grease Institute
 NLMA Northeastern Lumber Manufacturers Association
 NLS National Library Service for the Blind and Physically Handicapped (LC)
 NMEA National Marine Electronics Association
 NMF Network Management Forum
 NMFS National Marine Fisheries Service (Commerce)
 NMRA National Model Railroad Association
 NOAA National Oceanic and Atmospheric Administration (Commerce)
 NOFMA National Oak Flooring Manufacturers Association
 NOPA National Oilseed Processors Association
 NPA National Particleboard Association
 NPCA National Pest Control Association
 NPGA National Propane Gas Association
 NPIRI National Printing Ink Research Institute
 NPL Nebraska Power Laboratory
 NRA National Rifle Association of America
 NRCA National Roofing Contractors Association
 NRDCA National Roof Deck Contractors Association
 NRF National Retail Federation
 NRR Nuclear Regulatory Research (NRC)
 NSA National Stone Association
 NSAA National Ski Areas Association
 NSC National Safety Council
 NSDA National Soft Drink Association
 NSDJA National Sash and Door Jobbers Association
 NSEA National Standards Educators Association
 NSF NSF International
 NSPI National Spa and Pool Institute
 NSSEA National School Supply and Equipment Association
 NTDRA National Tire Dealers and Retreaders Association
 NTIA National Telecommunication and Information Administration (Commerce)
 NTMA National Terrazzo and Mosaic Association
 NWPCA National Wooden Pallet and Container Association
 NWWDA National Wood Window and Door Association
 OA Office of Acquisition (GSA)
 OAMM Office of Acquisition and Material Management (Veterans)
 OASD Office of the Assistant Secretary of Defense (DOD)
 OCE Office of Chief Engineer (NASA)
 OLA Optical Laboratories Association
 OPCC Optical Product Code Council
 OPEI Outdoor Power Equipment Institute
 OSA Optical Society of America

OSC Office of Space Communications (NASA)
 OSHA Occupational Safety and Health Administration (DOL)
 OSMA Office of Safety and Mission Assurance (NASA)
 OSMA Orthopedic Surgical Manufacturers Association
 PATMI Powder Actuated Tool Manufacturers Institute
 PBA Prevent Blindness America
 PBS Public Building Service (GSA)
 PCA Portland Cement Association
 PCMCIA Personal Computer Memory Card International Association
 PDCA Painting and Decorating Contractors of America
 PDI Plumbing and Drainage Institute
 PEI Porcelain Enamel Institute
 PFI Pipe Fabrication Institute
 PGM Council Primary Glass Manufacturers Council
 PI Perlite Institute
 PIA Printing Industries of America
 PIPI Process Industry Practices Initiative
 PLCA Pipe Line Contractors Association
 PMA Polyurethane Manufacturers Association
 PMI Project Management Institute
 PMMI Packaging Machinery Manufacturers Institute
 PPC Paperboard Packaging Council
 PPCI Precast/Prestressed Concrete Institute
 PPEMA Portable Power Equipment Manufacturers Association
 PPI Plastics Pipe Institute
 PRMA Pharmaceutical Research and Manufacturers of America
 PS Photoduplication Services (LC)
 PSA Photographic Society of America
 PSA Portable Sanitation Association
 PSTC Pressure Sensitive Tape Council
 PSUS Postal Services, U.S.
 PTI Post-Tensioning Institute
 RFCI Resilient Floor Covering Institute
 RI Refractories Institute
 RIA Robotic Industries Association
 RIAA Recording Industry Association of America
 RIS Redwood Inspection Service
 RMA Rubber Manufacturers Association
 RMI Rack Manufacturers Institute
 RSNA Radiological Society of North America
 RSPA Research and Special Programs Administration (DOT)
 RTA Railway Tie Association
 RTCA Radio Technical Commission for Aeronautics
 RTCM Radio Technical Commission for Maritime Services
 RUS Rural Utilities Service (USDA)
 RVIA Recreation Vehicle Industry Association
 RWMA Resistance Welder Manufacturers Association
 SAAMI Sporting Arms and Ammunition Manufacturers Institute
 SAE Society of Automotive Engineers
 SAWE Society of Allied Weight Engineers
 SBCCI Southern Building Code Congress International
 SBMA Steel Bar Mills Association
 SCCA Sports Car Club of America

SCHHHP Standards Committee for Hi-Lok, Hi-Tigue and Hi-Lite Products
 SCMA Southern Cypress Manufacturers Association
 SCTE Society of Cable Telecommunications Engineers
 SDI Steel Deck Institute
 SDI Steel Door Institute
 SEM Society for Experimental Mechanics
 SEMI Semiconductor Equipment and Materials Institute, International
 SES Standards Engineering Society
 SFI SFI Foundation Incorporated
 SFPA Southern Forest Producers Association
 SFP Society of Fire Protection Engineers
 SFSA Steel Founders Society of America
 SGS SGS United States Testing Company
 SI Salt Institute
 SI Silver Institute
 SIA Security Industry Association
 SIA Ski Industries America
 SID Society for Information Display
 SIGMA Sealed Insulating Glass Manufacturers Association
 SJI Steel Joist Institute
 SLA Special Libraries Association
 SMA Scale Manufacturers Association
 SMA Screen Manufacturers Association
 SMA Steel Manufacturers Association
 SMA Stucco Manufacturers Association
 SMACNA Sheet Metal and Air Conditioning Contractors National Association
 SMF Snell Memorial Foundation
 SMMA Small Motor Manufacturers Association
 SMPTE Society of Motion Picture and Television Engineers
 SMRT Secondary Materials and Recycled Textiles
 SNAME Society of Naval Architects and Marine Engineers
 SOPI Society of the Plastics Industry
 SPFA Steel Plate Fabricators Association
 SPI Society of the Plastics Industry
 SPIB Southern Pine Inspection Bureau
 SPRI Single Ply Roofing Institute
 SPSC Sleep Products Safety Council
 SRCC Solar Rating and Certification Corporation
 SRI Southwest Research Institute
 SSSC Snowmobile Safety and Certification Committee
 SSCI Steel Service Center Institute
 SSCI Steel Shipping Container Institute
 SSE Society of Sanitary Engineering
 SSFI Scaffolding, Shoring and Forming Institute
 SSPC Steel Structures Painting Council
 SSPMA Sump and Sewage Pump Manufacturers Association
 STC Society for Technical Communication
 STI Steel Tank Institute
 SWI Steel Window Institute
 TAB Traffic Audit Bureau
 TAPPI Technical Association of the Pulp and Paper Industry
 TCA Tile Council of America

TCMA	Technical Ceramics Manufacturers Association
TEMA	Tubular Exchanger Manufacturers Association
TIA	Telecommunications Industry Association
TMA	Toy Manufacturers of America
TMMB	Truck Mixer Manufacturers Bureau
TPAI	Tube and Pipe Association, International
TPI	Truss Plate Institute
TPI	Turfgrass Producers International
TRA	Tire and Rim Association
TRMI	Tubular Rivet and Machine Institute
TRSA	Textile Rental Services Association of America
TSP	Technical Standards Program Office (DOE)
TTMA	Truck Trailer Manufacturers Association
UCC	Uniform Code Council
UIA	Ultrasonic Industry Association
UL	Underwriters Laboratories
ULPA	United Lightning Protection Association
USARF	USA Rice Federation
USCAR	United States Council for Automotive Research
USCG	United States Coast Guard (DOT)
USCIB	United States Council for International Business
USCS	U.S. Custom Service (Treasury)
USCTI	United States Cutting Tool Institute
USGA	United States Golf Association
USGS	United States Geological Survey (DI)
USHSLA	United States Hide, Skin and Leather Association
USITACS	United States International Telecommunications Advisory Committee for Standardization (DOS)
USM	U.S. Mint (Treasury)
USMA	United States Metric Association
USP	United States Pharmacopeial Convention
USPRO	United States Product Data Association
USPT	U.S. Patent and Trademark Office (Commerce)
USTC&TEA	United States Tennis Court and Track Builders Association
USTR	U.S. Trade Representative
VCMA	Vacuum Cleaner Manufacturers Association
VITA	VMEBUS International Trade Association
VMAA	Valve Manufacturers Association of America
VRCI	Variable Resistive Components Institute
WASTECC	Waste Equipment Technology Association
WCLIB	West Coast Lumber Inspection Bureau
WIC	Woodwork Institute of California
WMMA	Wood Machinery Manufacturers of America
WMMP	Wood Moulding and Millwork Producers Association
WPCF	Water Pollution Control Federation
WQA	Water Quality Association
WRI	Wire Reinforcement Institute
WSC	Water Systems Council
WWPA	Western Wood Products Association

5.3 FORMER NAMES OF LISTED ORGANIZATIONS

American Bankers Association
now: Accredited Standards Committee X9

American Council of Independent Laboratories
now: ACIL

American Fishing Tackle Manufacturers Association
now: American Sport Fishing Association

American Paper Institute
now: American Forest and Paper Association

American Plywood Association
now: Engineered Wood Association

American Society of Medical Technologists
now: American Society for Clinical Laboratory Science

American Society of Sanitary Engineering
now: Society of Sanitary Engineering

American Sod Producers Association
now: Turfgrass Producers International

American Walnut Association
now: American Walnut Manufacturers Association

Anti-Friction Bearing Manufacturers Association
now: American Bearing Manufacturers Association

Association of Official Analytical Chemists
now: AOAC International

Association of Physical Plant Administrators of Universities and Colleges
now: Association of Higher Education Facilities Officers

Automatic Identification Manufacturers
now: AIM USA

Cadmium Council
now: International Cadmium Association

Caster and Floor Truck Manufacturers Association
now: Institute of Caster Manufacturers

Center for Agriculture Equipment
now: Nebraska Power Laboratory

Cleaning Equipment Manufacturers Association
now: Cleaning Equipment Trade Association

Computer Aided Manufacturing, International
now: Consortium for Advanced Manufacturing International

Computer and Business Equipment Manufacturers Association
now: Information Technology Industry Council

Cultured Marble Institute
now: International Cast Polymer Association

Equipment Manufacturers Institute
now: Environmental Industry Association

ETL Testing Laboratories
now: Inchcape Testing Services/ETL Testing Laboratories

Exchange Carriers Standards Association
now: Alliance For Telecommunications Industry Solutions

Farm and Industrial Equipment Institute
now: Equipment Manufacturers Institute

National Fertilizer Solutions
now: Agricultural Retailers Association

Glass Tempering Association
now: Glass Association of North America

Hardwood Plywood Manufacturers Association
now: Hardwood Plywood and Veneer Manufacturers Association

Industrial Gas Cleaning Institute
now: Institute of Clean Air Companies

Instrument Society of America
now: ISA, The International Society for Measurement and Control

International Tape/Disc Association
now: ITA, The International Recording Media Association

International Association of Wiping Cloth Manufacturers
now: Secondary Materials and Recycled Textiles

International District Heating and Cooling Association
now: International District Energy Association

International Fence Industry Association
now: American Fence Association

International Pipe Association
now: Tube and Pipe Association, International

Mineral Insulation Manufacturers Association
now: North American Insulation Manufacturers Association

Motor Vehicle Manufacturers Association
now: American Automobile Manufacturers Association of the United States

National Association of Corrosion Engineers
now: NACE International

National Association of Name Plate Manufacturers
now: National Association of Graphic and Product Identification Manufacturers

National Automobile Theft Bureau
now: National Insurance Crime Bureau

National Committee for Clinical Laboratory Standards
now: NCCL-The Clinical Laboratory Standards Organization

National Forest Products Association
now: American Forest and Paper Association

National Retail Merchants Association
now: National Retail Federation

National Sanitation Foundation
now: NSF International

National Solid Wastes Management Associations
now: Environmental Industry Associations

National Water Well Association
now: National Ground Water Association

NMBTA-The Association for Manufacturing Technology
now: AMT-The Association for Manufacturing Technology

Rice Millers Association
now: USA Rice Federation

5.4 ORGANIZATIONS NO LONGER INVOLVED IN STANDARDIZATION

Organizations that had developed standards or were listed in the 1991 Directory and that are

- (a) no longer active in standardization;
- (b) defunct or merged with another organization;
- (c) cannot be located or would not respond.

Abrasive Engineering Society (a)
Aircraft Locknut Manufacturers Association (c)
American Association of Bioanalysts (a)
American Association of Petroleum Geologists (c)
American Feed Industry Association (a)
American Heart Association (c)
American Home Economics Association (c)
American Institute of Chemical Engineers (a)
American Paper Institute (b)
American Paper Machinery Association (a)
American Podiatric Medical Association (a)
American Public Works Association (a)
American Society of Cinematographers (a)
Animal Health International (c)
Archery Manufacturers and Merchants Organization (c)
Architectural Precast Association (c)
Association of Drilled Shaft Contractors (c)
Cellulose Insulation Manufacturers Association (a)
Computer Software and Services Industry Association (a)
Decorative Laminate Products (c)
Deep Foundation Institute (c)
Dental Manufacturers of America (a)
Eastern Bird Banding Association (c)
Electronic Data Interchange Association (b)
Federation of Automated Coding Technologies (c)
Federation of Societies for Coatings Technologies (c)
Fertilizer Institute (a)
Fine Hardwood Veneer Association (a)
Grain Elevator and Processing Society (c)
Gummed Industries Association (b)
Hardwood Manufacturers Association (c)
International Cargo Gear Bureau (a)
International City Management Association (c)
International Coalition For Procurement Standards (b)
Investment Casting Institute (c)
Maple Floor Manufacturers Association (b)
Mo-Sai Institute (a)
MTM Association for Standards and Research (c)
Mumps Development Committee (c)
National Accreditation Council for Agencies Serving the Blind and Visually Handicapped (a)
National Ass. of Hospital Purchasing Materials Management (b)
National Association of State Purchasing Officials (c)
National Burglar and Fire Alarm Association (c)
National Cable Television Association (c)

National Computer Graphics Association (a)
National Easter Seal Society (c)
National Forest Products Association (b)
National Kerosene Heater Association (c)
National League for Nursing (c)
National Office Products Association (a)
National Operating Committee for Standards in Athletic Equipment (c)
National Slag Association (c)
National Solid Wastes Management Association (b)
National Wholesale Hardware Association (b)
Photo Chemical Machining Institute (c)
Safety Glazing Certification Council (c)
SPARC International (c)
Sponge and Chamois Institute (c)
Test Boring Association (c)
Thermal Insulation Manufacturers Association (b)
Tin Research Institute (c)
Trailer Hitch Manufacturers Association (b)
Tube Council of North America (a)
United Shipowners of America (b)
United States Telephone Association (c)
Waste Equipment Manufacturers Association (b)
Wood and Synthetic Flooring Institute (b)
Wood Heating Alliance (a)

NIST *Technical Publications*

Periodical

Journal of Research of the National Institute of Standards and Technology—Reports NIST research and development in those disciplines of the physical and engineering sciences in which the Institute is active. These include physics, chemistry, engineering, mathematics, and computer sciences. Papers cover a broad range of subjects, with major emphasis on measurement methodology and the basic technology underlying standardization. Also included from time to time are survey articles on topics closely related to the Institute's technical and scientific programs. Issued six times a year.

Nonperiodicals

Monographs—Major contributions to the technical literature on various subjects related to the Institute's scientific and technical activities.

Handbooks—Recommended codes of engineering and industrial practice (including safety codes) developed in cooperation with interested industries, professional organizations, and regulatory bodies.

Special Publications—Include proceedings of conferences sponsored by NIST, NIST annual reports, and other special publications appropriate to this grouping such as wall charts, pocket cards, and bibliographies.

National Standard Reference Data Series—Provides quantitative data on the physical and chemical properties of materials, compiled from the world's literature and critically evaluated. Developed under a worldwide program coordinated by NIST under the authority of the National Standard Data Act (Public Law 90-396). NOTE: The Journal of Physical and Chemical Reference Data (JPCRD) is published bimonthly for NIST by the American Chemical Society (ACS) and the American Institute of Physics (AIP). Subscriptions, reprints, and supplements are available from ACS, 1155 Sixteenth St., NW, Washington, DC 20036.

Building Science Series—Disseminates technical information developed at the Institute on building materials, components, systems, and whole structures. The series presents research results, test methods, and performance criteria related to the structural and environmental functions and the durability and safety characteristics of building elements and systems.

Technical Notes—Studies or reports which are complete in themselves but restrictive in their treatment of a subject. Analogous to monographs but not so comprehensive in scope or definitive in treatment of the subject area. Often serve as a vehicle for final reports of work performed at NIST under the sponsorship of other government agencies.

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