United States

Aaencv

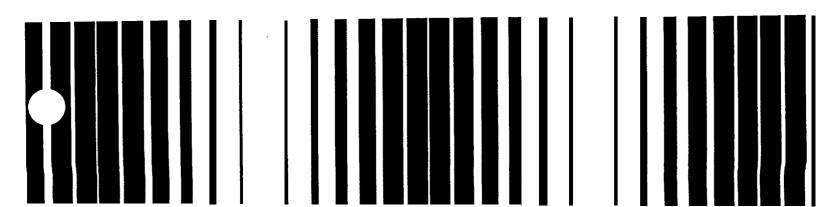
Office of Research and Environmental Protection Development Washington DC 20460

Office of Pollution Prevention and Toxics (7409)

EPA/625/R-97/003 October 1997



## **ISO 14000 Resource Directory**



EPA/625/R-97/003 October 1997

#### IS0 14000 Resource Directory

Contract #68-3-03 15

Work Assignment Manager

Emma Lou George Technology Transfer and Support Division National Risk Management Research Laboratory Cincinnati, Ohio 45268-0001

U.S. Environmental Protection Agency Office of Research and Development National Risk Management Research Laboratory Center for Environmental Research Information Cincinnati, Ohio



The U.S. Environmental Protection Agency through its Office of Research and Development funded and managed the research described here under Contract **#68-3-03** 15 to Eastern Research Group, Inc. It has been subjected to the Agency's peer and administrative review and has been approved for publication as an EPA document. Mention of trade names or commercial products does not constitute endorsement or recommendation for use.

The U.S. Environmental Protection Agency is charged by Congress with protecting the Nation's land, air, and water resources. Under a mandate of national environmental laws, the Agency strives to formulate and implement actions leading to a compatible balance between human activities and the ability of natural systems to support and nurture life. To meet this mandate, EPA's research program is providing data and technical support for solving environmental problems today and building a science knowledge base necessary to manage our ecological resources wisely, understand how pollutants affect our health, and prevent or reduce environmental risks in the future.

The National Risk Management Research Laboratory is the Agency's center for investigation of technological and management approaches for reducing risks from threats to human health and the environment. The focus of the Laboratory's research program is on methods for the prevention and control of pollution to air, land, water and subsurface resources; protection of water quality in public water systems; remediation of contaminated sites and ground water; and prevention and control of indoor air pollution. The goal of this research effort is to catalyze development and implementation of innovative, cost-effective environmental technologies; develop scientific and engineering information needed by EPA to support regulatory and policy implementation of environmental regulations and strategies.

This publication has been produced as part of the Laboratory's strategic long-term research plan. It is published and made available by EPA's Office of Research and Development to assist the user community and to link researchers with their clients. This publication was developed jointly with the USEPA Standards Network, Office of Prevention, Pesticides and Toxic Substances.

This report, *ISO* I4000 *Resource Directory*, funded through the Center for Environmental Research Information, is a pollution prevention guide for government and nonprofit initiatives and projects related to the developing ISO 14000 series of Environmental Management Standards .

E. Timothy Oppelt, Director National Risk Management Research Laboratory This Directory provides information about current initiatives related to the developing ISO 14000 series of environmental standards. Interest in the standards among governments, nongovernmental organizations, industry and the public is high and expected to grow as the standards become finalized. A measure of this interest is the fact that even before the first of the ISO 14000 series standards was issued, over 100 government and nonprofit organizations submitted information for inclusion in this Directory. This number excludes the hundreds of private sector initiatives, not included in this Directory, that are also underway. The U.S. Technical Advisory Group (TAG) to ISO Technical Committee 207 (the ISO Committee developing the ISO 14000 series standards), for example, consists of hundreds of members from industry, government, consulting firms, nongovernmental organizations, and academia. Dozens of private sector organizations have emerged to offer training, consulting, and other services related to ISO 14000, while hundreds of individual companies are investigating ISO 14000 to determine its implications.

The IS0 14000 is a global series of standards developed outside regulatory channels that has the potential to revolutionize both the way industrial and other organizations manage environmental affairs, the way regulatory agencies relate to the regulated community, and the way customers and society at large relate to companies and other organizations. Whether this potential will be realized is not yet clear. Much will depend on how industry, governments, and nongovernmental organizations respond to, and use, the standards. If their potential is realized, the introduction of the ISO 14000 series standards could be one of the most significant environmental developments of our time.

This Directory is an effort by EPA to contribute to an understanding of the ISO 14000 series standards. It does not attempt to promote or discourage use of the standards. Rather, it is intended to facilitate communication among the many groups or individuals examining or using the standards. A useful first step in improving our understanding of the standards is to provide a forum where interested parties can communicate and learn from each others' experience.

The audience for this resource directory is anyone interested in the ISO 14000 series of International Environmental Standards. Companies from large to small and government at all levels could find the information contained in this directory useful.

This report was submitted in fulfillment of Contract #68-3-03 15 by Eastern Research Group, Inc. under the sponsorship of the U.S. Environmental Protection Agency. This report covers a period from January, 1997 to May 3 1, 1997.

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The purpose of this Directory is to provide information on government activities concerning ISO 14000 and/or Environmental Management Systems (EMS). It is therefore beyond the scope of the Directory to include a comprehensive listing of all the private sector organizations and initiatives also involved in ISO 14000 and/or EMS.

The ISO 14000 series of standards are copyrighted and can be obtained by contacting any of the following organizations: **ANSI**, 7315 Wisconsin Ave., Suite 250-E Bethesda, MD 20814. Tel: 301-469-3363. ASTM, 100 Bar Harbor Dr., West Conshohocken, PA 19428. Tel: 601-832-9721. Fax: 601-832-9666. **ASQC**, 611 East Wisconsin Ave., **P.O.** Box 3005, Milwaukee, WI 53201. Tel: **800-248-1946**. Fax: 414-272-1734. NSF **International**, 2100 Commonwealth Blvd., Ann Arbor, MI 48105. Tel: 313-332-7333. Fax: 313-669-0196.

#### ACKNOWLEDGMENTS

This Directory was prepared under the direction and coordination of Emma Lou George of the U.S. EPA's Office of Research and Development, National Risk Management Research Laboratory in Cincinnati, Ohio, with assistance from Mary **McKiel** of the EPA Standards Network, Office of Pollution Prevention and **Toxics**, in Washington, DC.

Eastern Research Group, Inc. (ERG) of Lexington, Massachusetts, collected and compiled the information contained in the Directory, and prepared and edited the material for publication. Michael Cronin and Donald Fried-Tanzer, under the direction of Jeff **Cantin**, were the primary ERG contributors to its development.

# INTRODUCTION

#### **Overview**

This Directory provides information about current initiatives related to the developing ISO 14000 series of environmental standards. Interest in the standards among governments, nongovernmental organizations, industry and the public is high and expected to grow as the standards become finalized. A measure of this interest is the fact that even before the first of the ISO 14000 series standards was issued, over 100 government and nonprofit organizations submitted information for inclusion in this Directory. This number excludes the hundreds of private sector initiatives, not included in this Directory, that are also underway. The U.S. Technical Advisory Group (TAG) to ISO Technical Committee 207 (the ISO Committee developing the ISO 14000 series standards), for example, consists of hundreds of members from industry, government, consulting firms, nongovernmental organizations, and academia (see Figure 2). Dozens of private sector organizations have emerged to offer training, consulting, and other services related to ISO 14000, while hundreds of individual companies are investigating ISO 14000 to determine its At least two U.S. companies implications. certified to ISO 14001 while the standard was still in draft form, and prior to the existence of U.S. nationally accredited registrars.

The reasons for this interest in the ISO 14000 series standards are not hard to find. It is a global series of standards developed outside regulatory channels that has the potential to revolutionize both the way industrial and other organizations manage environmental affairs, the way regulatory agencies relate to the regulated community, and the way customers and society at large relate to companies and other organizations. Whether this potential will be realized is not yet clear. Much will depend on how industry, governments, and nongovernmental organizations respond to, and use, the standards. If their potential is realized, the introduction of the ISO 14000 series standards be one of the most significant could environmental developments of our time.

This Directory is an effort by EPA to contribute to an understanding of the IS0 14000 series standards. It does not attempt to promote or discourage use of the standards. Rather, it is intended to facilitate communication among the many groups or individuals examining or using the standards. A useful first step in improving our understanding of the standards is to provide a forum where interested parties can communicate and learn from each others' experience.

#### What is ISO?

Organization International for The Standardization (ISO) is a private sector, international standards body based in Geneva, Switzerland. The short form "ISO" is not an acronym, but instead is derived from the Greek isos, meaning "equal" (implying "standard"). Founded in 1947, ISO promotes the international harmonization and development of manufacturing, product and communications standards. ISO has promulgated more than 8,000 internationally accepted standards covering everything from paper sizes to film speeds. More than 120 countries belong to ISO as full voting members, while several other countries serve as observer members. The United States is a full voting member and is officially represented by the American National Standards Institute (ANSI), a nongovernmental, nonprofit standards setting organization.

ISO produces internationally harmonized standards through a structure of Technical Committees (TCs). The TCs usually divide into Subcommittees (SC), which are further subdivided in Working Groups (WG) where the actual standards writing occurs. For example, ISO TC 207 is the ISO Committee developing the ISO 14000 series of standards, SC1 pertains to Environmental Management Systems (EMS), and SC1 WG1 produced the ISO 14001 standard (Figure 1 shows the structure of ISO TC 207).

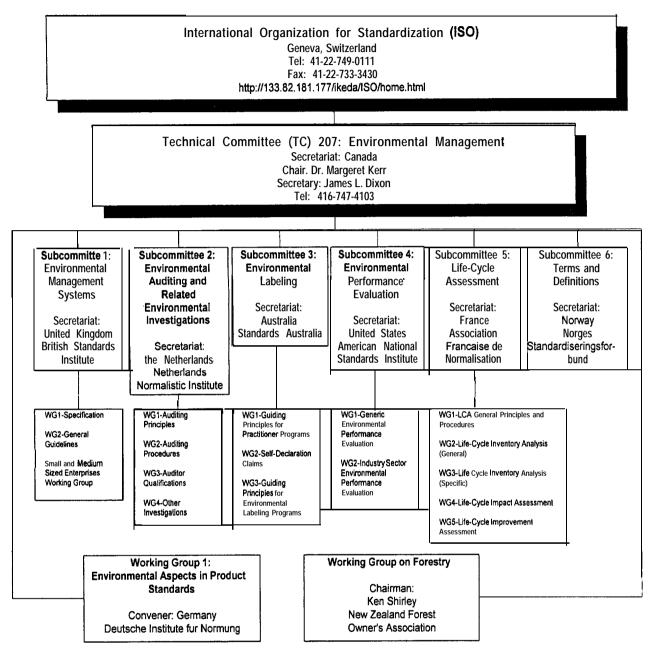


figure 1. Structure of ISO Technical Committee 207.

	Figure 2. U.S. Technical Ad	dvisory Grou	p (TAG) to ISO TC-207
American	National Standards Institute 2 12-642	2-4900	
US TAG	to ISO/TC 207		
Chair:	Joe Cascio 703 750 6401 jcascio@gnet.org	Vice-Chair:	Mary McKiel 202-260-3584 mckiel.mary@epamail.epa.gov
ST1—Er	ivironmental Management Systems	3	
Chair:	Joel Charm 20 1-455-4057 joel.charm@alliedsignal.com	EPA Rep:	Jim Home 202-260-5 802 horne.james@epamail.epa.govl
ST2—Er	vironmental Auditing		
Chair:	Cornelius (Bud) Smith 203-778-6114 203-778-6487 Fax	EPA Rep:	Cheryl Wasserman 202-260-8797 wasserman.cheryl@epamail.epa.gov
ST3—Eı	nvironmental Labeling		
Chair:	Jim Connaughton 202-736-8364 jconnaugh@sidley.com	EPA Rep:	Julie Lynch 202-260-4000 lynch.julie@epamail.epa.gov
ST4—Ei	ivironmental Performance Evaluat	ion	
Chair:	John Master 6 <b>1</b> O-359-48 10 610-359-4862 Fax	EPA Rep:	John <b>Harman</b> 202-260-6395 harman.john@epamail.epa.gov
ST5—Li	fe Cycle Assessment		
Chair:	James Fava 610-701-3636 favaj@wcpost2.rfweston.com	EPA Rep:	Mary Ann Cur-ran 5 13-569-7837 curran.maryann@epamail.epa.gov
ST6—Te	erms and Definitions		
Chair:	Christopher Bell 202-736-8 118 cbell@sidley.com	EPA Rep:	Mary McKiel 202-260-3584 mckiel.mary@epamail.epa.gov
SWG—I	Environmental Aspects in Product S	Standards	
Chair:	Stanley Rhodes 5 10-832-1415	EPA Rep:	John Shoaff <b>202-260-</b> 183 1 shoaff.john@epamail.epa.gov

For information on joining the U.S. TAG, contact ASTM at 610-832-9721.

# What are the ISO 14000 Series Standards?

The ISO 14000 standards are a series of voluntary standards developed under the ISO framework to address organizational environmental management. Like the ISO 9000 series quality standards on which they are largely modeled, the ISO 14000 series standards focus on management systems rather than on performance levels. Just as it is impossible to define "quality" across a wide range of products, it is difficult to define environmental performance across a wide range of activities, products, and services, as well as across differing national regulatory systems. The ISO 14000 series standards do not address the issue of performance. Instead, they identify management system elements that are intended to lead to improved performance: a method to identify significant environmental aspects; a policy that includes a commitment to regulatory compliance, the prevention of pollution and continual improvement; environmental objectives and targets for all relevant levels and functions in organization; procedures to ensure the performance, as well as compliance procedures to monitor and measure performance; and a systematic management review process. One of the issues regulatory agencies and stakeholders must consider is how these systems' conformance requirements will interact with regulatory performance requirements.

The ISO 14000 series of standards include "specification" standard, ISO 1400 1. The rest are guidance standards which provide optional guidance for companies developing and implementing management systems and product standards. The ISO 1400 1 specification standard "contains only those requirements that may be objectively audited for certification/registration purposes and/or self declaration purposes." The various standards are at different stages of development from published final International Standards (IS) to New Work Item (NWI) Proposals (see Figure 3).

ISO 14001, 14004, 14010, 14011/1 and 14012 are published final International Standards. For the developing status of the other documents it is best to consult one of the many newsletters or internet **websites** which track this information (please see Chapter 7, Resources).

The ISO 14000 series of standards are copyrighted and can be obtained by contacting any of the following organizations: ANSI, 73 15 Wisconsin Ave., Suite 250-E Bethesda, MD 20814. Tel: 301-469-3363. ASTM, 100 Bar Harbor **Dr.,West** Conshohocken, PA 19428. Tel: 610-832-9721. Fax: 610-832-9666. ASQC, 611 East Wisconsin Ave., P.O. Box 3005, Milwaukee, WI 53201. Tel: 800-248-1946. Fax: 414-272-1734. NSF **International**, 2100 Commonwealth **Blvd., Ann Arbor MI 48105**. Tel: 313-332-7333. Fax: 3 13-669-O 196.

# Initiatives Described in this Resource Directory

Application and acceptance of the ISO 14000 standards are still evolving, therefore very few initiatives described in this Resource Directory are tightly tied to the ISO standards themselves. Organizations are not waiting, however, for all the various standards to be finalized. Instead, they are initiating a wide range of projects revolving around the major themes addressed in the ISO 14000 series standards: environmental management systems, product and process life cycles, extended producer responsibility, moving beyond compliance, environmental performance evaluation, third party certification, etc. For the purposes of this Resource Directory the definition of an "ISO 14000 Initiative" includes both projects related formally to the ISO 14000 series standards and those more loosely related to some of the major themes of the standards. With this scope identified, a wide variety of organizations were invited to submit information about initiatives that would be of interest to others tracking ISO 14000. The purpose of this Directory is to provide information on government activities concerning ISO 14000 and/or Environmental Management Systems (EMS). It is therefore beyond the scope of the Directory to include a comprehensive listing of all the private sector organizations and initiatives also involved in ISO 14000 and/or EMS. Each entry includes a description of the initiative and provides the

	Organizational Evaluation	
ISO 14001	Environmental Management Systems-Specifications with Guidance for Use	Final International Standard
ISO 14004	Environmental Management Systems-General Guidelines on Principles, Systems, and Supporting Techniques	Final International Standard
ISO 14010	Guidelines for Environmental Auditing-General Principles on Environmental Auditing	Final International Standard
ISO 14011/1	Guidelines for Environmental Auditing-Audit Procedures-Audit of Environmental Management Systems	Final International Standard
ISO 14012	Guidelines for Environmental Auditing-Qualification Criteria for Environmental Auditors	Final International Standard
ISO 14015	Environmental Site Assessments	First Working Draft
ISO14031	Evaluation of Environmental Performance	Committee Draft
	Product Evaluation	
ISO 14040	Environmental Management-Life Cycle Analysis-Principles and Framework	Under vote as Final Internationa Standard
ISO 14041	Envírcommental Wanagement-Life Cycle Analysis-Life Cycle Jnventory Analysis	Committee Draft for ballot
ISO 14042	Environmental Management-Life Cycle Analysis-Impact Assessment	Working Draft
ISO 14043	Environmental Management-Life Cycle Analysis-interpretation	Working Draft
ISO 14020	Goals and Principles of All Environmental Labeling	Committee Draft for Comment
ISO 14021	Environmental Labels and Declarations-Self Declaration Environmental Claims-Terms and Definitions	Draft International Standard
ISO 14022	Environmental Labels and Declarations-Self Declaration Environmental Claims-Symbols	Under vote as Committee Draft
ISO 14023	Environmental Labels and Declarations-Self Declaration Environmental Claims-Testing and Verification	as above
ISO 14024	Environmental Labels and Declarations-Environmental Labeling Τγ <del>ρε</del> I-Guiding Principles and Procedures	Committee Draft
ISO 14025	Environmental Labels and Declarations-Environmental Information Profiles-Type III Guiding Principles and Procedures	New Work Item
ISO Guide 64	Guide for Inclusion of Environmental Aspects in Product Standards	ISO Guide
	Overall	
ISO 14050	Terms and Definitions-Guide on the Principles for ISO/TC 207/SC6 Terminology Work	Draft International Standard

**ISO** Standards Development Process:

(I) New Work Item proposal, (2) New Work Item assigned to Subcommittee, (3) Working Draft, (4) Committee Draft, (5) Draft International Standard (or optional Final Draft International Standard), (6) International Standard.

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name, address and telephone number of a contact person who is prepared to discuss the results of their exploration with others examining or using the standards. Where possible, e-mail addresses and Universal Resource Locators, or URLs addresses (World Wide Web), have also been provided to facilitate electronic communication. This Resource Directory is also available online at: http://www.epa.gov/ttbnrmrl/ceri.htm to allow users to access these resources directly through the Internet.

# EPA's Involvement with ISO 14000

ISO 14000 is a voluntary, private sector initiative that EPA views has the potential to achieve environmental benefits. EPA has been involved in the development of the standards since their inception. EPA's Mary McKiel is the Vice Chairman of the U.S. Technical Advisory Group (TAG) to ISO Technical Committee 207. Moreover, EPA is represented on the Chairman's Advisory Group and on the U.S. National Accreditation Program for environmental management systems standards (ISO 14001). The chief mechanism for organizing EPA's involvement with ISO 14000 is the voluntary Standards Network.

The Voluntary Standards Network was established by Administrator Carol Browner in 1993 to coordinate all of the Agency's ISO 14000 activities. The Network is responsible for developing and coordinating Agency policies and participating in voluntary standards, including 1400 1. This coordination ensures that the Agency speaks with one voice on important issues and activities as they pertain to voluntary standards, such as the ISO 14000 series.

Key EPA activities to date have included:

— Providing an information clearinghouse. EPA activities such as this Directory are intended to inform the regulatory community, stakeholder groups, and other interested parties (including industry) of key activities taking place both within the ISO setting, and among government agencies and nonprofit organizations.

- --- Evaluating the potential usefulness of ISO 14000 in a regulatory setting. A number of projects are underway to evaluate whether and how the ISO 14000 series standards interact with regulatory requirements. Numerous legal and practical issues remain to be resolved in evaluating ISO 14000 as a complement to regulatory programs. These issues are being addressed in pilot projects that will provide useful lessons for future programs.
- Assisting small and mid-sized companies. A key issue facing small and mid-sized companies will be how to adapt to the requirements of ISO 14000 with fewer resources than those available to the large multinational companies that participated heavily in the development of standards.
- Organizing conferences. EPA Headquarters held a one-day conference on ISO 14000 in February, 1997 in Washington, DC. The conference provided an overview of the ISO 14000 standards, and included presentations from EPA offices involved in standards development and pilot projects.

# Other Initiatives Related to ISO 14000

As illustrated in this Resource Directory, other government agencies, state governments, and nonprofit organizations are involved in a number of significant initiatives related to ISO 14000. Included are:

 Work groups and study groups established by federal agencies, states, and multilateral organizations to evaluate the potential role of ISO 14000 in regulatory and nonregulatory programs.

#### **ISO 14000 RESOURCE DIRECTORY**

#### **CHAPTER 1: INTRODUCTION**

- Initiatives by various departments of the
- , federal government and the U.S. Postal Service to use ISO 14000 in facilities management.
- Inclusion of ISO 9000 and ISO 14000 by the Food and Drug Administration in environmental management system registration.
- Development of tools for ISO 14000 by the National Institute of Science and Technology (NIST) Manufacturing Extension Programs (MEP) which provide technical assistance to small and medium sized enterprises (SMEs).
   Programs in over 28 states to include, or to consider ISO 1400 1, as part of innovative
- Industry and trade association programs to acquaint their members with ISO 14000.

environmental management programs.

# How To Use This Resource Directory

This Resource Directory is intended principally as a forum for users and interested parties to learn about ISO 14000, to find out who is involved in ISO 14000-related initiatives, and to communicate The Directory contains with one another. information primarily on initiatives being developed by government and nonprofit organizations, Other organizations are developing useful directories of resources and initiatives in the for-profit sector (see Chapter 7, Resources). It is important to recognize, therefore, that in addition to the resources listed in this Directory, exist numerous other directories, there newsletters, and other publications related to ISO 14000, as well as a wide range of private organizations that organize conferences, provide training programs, and assist with implementation of ISO 14000.

EPA hopes that the audience for this Resource Directory will be able to use it in a number of ways:

- Review the Directory from beginning to end to get an idea of the breadth and scope of initiatives currently underway.
- Reference the sections that include organizations you work with to see what initiatives are underway and learn how they may affect you.
- Find out about initiatives underway in your local area by referencing the state-by-state or regional EPA listings.
- Look up organizations similar to yours to find out what they are doing and learn from their progress to date.

Reference the online version of this directory at EPA's Technology Transfer webpage: http://www.epa.gov/ttbnrmrl/ceri.htm and use the search engine to find entries by keyword.

# Acronyms and Abbreviations Used

#### in this Resource Directory

EMS	Environmental Management Systems
E-mail	Electronic Mail
ISO	International Organization for Standardization
P2	Pollution Prevention
SME	Small to Medium Sized Enterprises
URL	Universal Resource Locator

#### How To Update This Resource Directory

Like the ISO 14000 standard development process, this Resource Directory is a work in progress. Over the coming months and years, it will evolve dramatically as new initiatives are added and other initiatives are completed or discontinued. This Resource Directory will only function well if it is maintained in an up-to-date manner. For that the Agency must rely on the user community. We therefore ask you, the users of the Resource Directory, to help us keep it up to date by informing us of:

- --- New entries to add to the Directory.
- Corrections to entries listed in the Directory.
- Updates and changes in your activities.
- New initiatives undertaken by your organization.
- Leads on new or existing initiatives that have not been included in this Resource Directory.

Please use the form on the inside back cover of the Resource Directory to submit updates, corrections, and information on new initiatives.

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# U.S. EPA INITIATIVES

Numerous offices within the United States Environmental Protection Agency (EPA) are examining the ISO 14000 series of standards and considering its effects upon their programs and activities. The first part of this chapter lists initiatives undertaken by EPA headquarters offices, sorted alphabetically by the lead EPA office. The second part lists regional EPA initiatives, presented in numerical order by EPA region.

- 1. Agency-wide Initiatives
- 2. Headquarters Initiatives
- 3. Regional Initiatives and Support

# AGENCY-WIDE

# The Voluntary Standards Network

The Voluntary Standards Network was established by EPA Administrator Carol Browner in 1993 to coordinate all of the Agency's ISO 14000 activities. The Network is responsible for developing and coordinating Agency policies and participation in voluntary standards, including ISO 14001. This Coordination ensures that the Agency speaks with one voice on important issues and activities as they pertain to standards, EMS and ISO 14001. To date, there are over 130 members of the Network representing all of the Offices and Regions. Designated Standards Coordinators in each Office and Region act as lead points of contact for the Network. Within the Network, individual Offices are assigned the responsibility for coordinating official Agency positions on individual standards. The Network is administered by Mary McKiel.

Addr.	Mary McKiel, Director Voluntary Standards Network U.S. Environmental Protection Agency (7409) 401 M St., SW
	Washington, DC 20460
Tel.	202-260-3584
Fax:	202-260-0178
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 Addr. Eric Wilkinson, Coordinator Voluntary Standards Network U.S. Environmental Protection Agency (7409) 401 M St., SW Washington, DC 20460
 Tel. 202-260-3575
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## Voluntary Standards Executive

Addr: Pep Fuller, EPA Standards Executive Office of Pollution Prevention, Pesticides and Toxic Substances 401 M St., SW Washington, DC 20460 **Tel.** 202-260-3584

## Standards Coordinators

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	sub-TAG lead
	EPA EMS Workgroup chair
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	Washington, DC 20460
Tel:	202-260-5802

- Addr: Ken Feith, Standards Coordinator Office of Air and Radiation, 6103 401 M St., SW Washington, DC 20460
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- Addr: Greg Mertz, Standards Coordinator Office of International Activities, 262 1 401 M St., SW Washington, DC 20460
   Tel: 202-260-5714
- Addr: Jerry Newsome, Standards Coordinator Office of Policy, Planning and Evaluation 2128 401 M St., SW Washington, DC 20460

#### *Tel:* 202-260-8666

- Addr: Elaine Koerner, Standards Coordinator Office of Communication, Education and Public Affairs, 1702 401 M St., SW Washington, DC 20460
   Tel: 202-260-2623
- Addr: Brian Riedel, Standards Coordinator and Chair of ISO 14001/EMS Task Group Office of Enforcement and Compliance Assurance, 2201A 401 M St., SW Washington, DC 20460
- *Tel:* 202-260-5006
- Addr: Dana Arnold, Standards Coordinator Office of Solid Waste and Emergency Response, 5306W 401 M St., SW Washington, DC 20460
   Tel: 703-308-7279

Addr:	David Scott Smith, Standards Coordinator
	Office of Administration and Resource
	Management, 3207
	401 M St., SW
	Washington, DC 20460
Tel.	202-260-1647

# Agency Sub-TAG leads to the US TAG

Addr. Cheryl Wasserman, Auditing Sub-TAG lead
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401 M St., SW
Washington, DC 20460
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 Addr: Julie Lynch, Labeling Sub-TAG lead Office of Prevention and Toxics, 7409 401 M St., SW Washington, DC 20460
 Tel. 202-260-4000

 Addr: John Harman, Environmental Performance Evaluation Sub-TAG lead Office of Prevention and Toxics, 7408 401 M St., SW Washington, DC 20460
 Tel: 202-260-6395

- Addr: Susan McLaughlin, Environmental Performance Evaluation sub-TAG Office of Prevention and Toxics, 7409 401 M St., SW Washington, DC 20460
   Tel. 202-260-3844
- Addr. Mary Ann Curran, Life Cycle Analysis sub-TAG lead
   Office of Research and Development, 466 26 W. Martin Luther King Dr. Cincinnati, OH 45268
   Tel: 513-569-7782
- Addr. John Shoaff, Standards Coordinator and Environmental Aspects in Product Standards & Terms & Definitions sub-TAG lead Office of Prevention and Toxis, 7409 401 M St., SW Washington, DC 20460
   Tel: 202-260-1831

Addr: Emma Lou George Office of Research and Development, 466 26 W. Martin Luther King Dr. Cincinnati, OH 45268-0001 Tel: 5 13-569-7578

#### **Regional Coordinators**

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 Tel: 617-223-5541

 Addr: Jehuda Menczel, Standards Coordinator Region 2 290 Broadway New York, NY 10007-1866
 Tel: 2 12-637-4045

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- Addr: David Schaller, Standards Coordinator Region 8 999 18th Street, Suite 500 Denver, CO 80202-2466
   Tel. 303-312-6146

 Addr. Bonnie Barkett, Standards Coordinator Region 9 75 Hawthorne Street San Francisco, CA 94105
 Tel. 415-744-1908

- Addr. Nancy Helm, Standards Coordinator Region 10 1200 Sixth Ave. Seattle, WA 98101
   Tel: 206-553-8659
- Addr: David Tetta, Standards Coordinator Region 10 1200 Sixth Ave. Seattle, WA 98101
   Tel. 206-553-1327

## HEADQUARTERS INITIATIVES

## Office of Air Quality Planning & Standards (OAQPS)

**OAQPS Web site.** The OAQPS Web site is the clearinghouse for EPA regulations regarding air quality.

Addr: Tom Link, OAQPS Webmaster U.S. EPA (MD-12) Research Triangle Park, NC 277 11 Tel: 919-541-5456 Fux: 919-541-0242 E-mail: link.tom@epamail.epa.gov U R L : http://www.epa.gov/oar/oa

# Office of Air and Radiation (OAR)

*Natural Gas STAR Program.* This voluntary program is designed to cost-effectively reduce emissions of greenhouse gases from the natural gas industry. Developed as a partnership between the EPA and the natural gas industry, the program addresses emissions of methane and carbon dioxide through a series of cost-effective best management practices.

Addr:	Rhone Resch, Program Manager
	U.S. EPA (62025)
	401 M Street, SW
	Washington, DC 20460
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Fax.	202-233-9569
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U R L :	http://www.ctc.com

**OAR Web site.** The OAR Web site is the clearinghouse for information on EPA's efforts to protect and preserve air quality.

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## Office of Enforcement and Compliance Assurance (OECA)

*Environmental Leadership Program (ELP).* ELP is one of the 25 Reinventing Environmental Regulations announced on March 16, 1995, by President Clinton. A l-year pilot phase was completed in August 1996 that evaluated opportunities for new tools using third party auditing and alternative performance-based management systems. The success of the 12 pilot projects demonstrated the effectiveness of partnerships with state environmental agencies, and the cooperative ability in conducting a voluntary program with industry and federal facilities.

The goals for the implementation of the full-scale ELP by January 1997 include 1) better environmental and human health protection by promoting a systematic approach to managing environmental issues and by encouraging environmental enhancement activities; 2) increased identification and timely resolution of environmental compliance issues by ELP participants; 3) multiplying the compliance assistance efforts by including industry as mentors; and 4) fostering constructive and open relationships between agencies, the regulated community, and the public.

The foundation for recognizing environmental leaders will be the implementation of an environmental management system (EMS), an integrated, structured, and systematic approach for identifying significant environmental impacts resulting from an organization's activities, products, and services. The intent is to achieve compliance with environmental regulations, provide an ability for continuous improvement, identify opportunities for implementing pollution prevention activities and practices, and communicate effectively with outside stakeholders on the organization's EMS and its performance.

The 6-year ELP participation period is designed to publicly recognize specific facilities or entities, as well as offer benefits for participation through reduced inspections, a self-correction period for violations. and streamlined administrative requirements. EPA anticipates that the ELP will be coordinated in partnership with interested state environmental agencies, in order to extend the benefits offered on a state-by-state basis. Facilities/entities will be required to conduct compliance and EMS auditing in conjunction with third party verification of the audits. EPA will also make an annual environmental report available to the public. This proposed framework is currently available to all stakeholders for review and comment.

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*ISO 14001/EMS Task Group.* This task group is composed of representatives from all major EPA offices and 8 Regions, the Department of Justice, and 18 states (Alaska, Arizona, California, Colorado, Delaware, Maryland, Massachusetts, Michigan, Minnesota, Nebraska, New Jersey, New York, North Carolina, Pennsylvania, South Carolina, Tennessee, Washington, and Wisconsin).

The primary purpose of the task group is to determine and make recommendations regarding the relationship between ISO 14001, EMS standards, compliance, enforcement, and improved environmental performance.

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## **Office of Federal Activities**

*EMS Audit Procedural Guidelines.* A sub-task group of the U.S. Technical Advisory Group (US. TAG) for ISO's EMS development produced the EMS audit procedural guidelines. A final draft currently out for comment will be used in conjunction with ISO Standard Guidelines in Environmental Auditing Principles, procedures and qualifications set forth in ISO14010-12

related to environmental auditing. These guidelines will assist auditors conducting ISO 1400 1 conformance audits and set boundaries for EMS audits used for internal self-assessments, self- certifications of conformity with ISO 1400 **1**, or by registrars for ISO 14001 registrations to ensure they are at once credible, replicable, and not overly burdensome or interpretive of the ISO standards. This document will be revised as needed upon further review within the United States and among key stakeholder groups.

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# Office of Policy, Planning, and Evaluation (OPPE)

*Indiana Small Business Pilot Project.* Please see Chapter 4, under Indiana, for full listing.

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**URL**: http://www.epa.gov/oppe/isd/isd.htm

## Office of Pollution Prevention and Toxics

**Consumer Labeling Initiative. The** Consumer Labeling Initiative's goal is to foster pollution prevention, empower consumer choice, and improve understanding by presenting clear, consistent, and useful safe use, environmental, and health information on household consumer product labels. This is a multi-phased voluntary pilot project focusing on indoor insecticides, outdoor pesticides, and household hard surface cleaners. Addr: Julie Lynch

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*Environmental Accounting Project.* The Environmental Accounting Project is a nonregulatory partnership program with a mission of helping organizations highlight the economic benefits of practicing pollution prevention. Its objective is to encourage and motivate businesses to understand the full spectrum of their environmental costs, and integrate these costs into strategic decision-making.

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*Environmentally-Preferable Public Purchasing.* The Environmentally Preferable Purchasing Program implements Executive Order 12873 which requires EPA to "issue guidance that recommends principals that Executive agencies should use in making determinations for the preference and purchase of environmentally preferable products" and services. The Program's goal is make environmental performance a factor in Federal government purchasing decisions, along with traditional factors, such as product performance and cost.

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Expanding the Use of Environmental Information by the Banking Industry Through ISO 14000. This effort will initially be an EPAfunded study to explore the potential utility of ISO 14000-generated information for banks in their risk management practices.

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# Office of Research and Development (ORD)

**Technology** Verification Environmental Program. EPA has evaluated technology to determine their effectiveness in preventing, controlling, and cleaning up pollution. As a part of the Environmental Technology Initiative, EPA is now expanding these efforts by instituting a new program, the Environmental Technology Verification Program (ETV), to verify the performance of a larger universe of innovative technical solutions to problems that threaten human health or the environment. ETV was created to substantially accelerate the entrance of new environmental technologies into the domestic and international marketplace. It supplies technology buyers and developers, consulting engineers, states, and EPA regions with data on the performance of new technologies to encourage more rapid protection of the environment with better and less expensive approaches. EPA will utilize the expertise of both public and private partner "verification organizations," including

federal laboratories, states, universities, and private sector facilities, to design efficient processes for conducting or overseeing performance tests of innovative technologies.

Verification organizations will oversee and report verification activities based on testing and quality assurance protocols developed with input **from** all major stakeholder and customer groups associated with the technology area.

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*Implementing EMS in the Metal Finishing Industry.* In this EPA-funded project, 11 organizations from the metal finishing industry are piloting the implementation of the ISO 14001 Standard. The project will result in a publicly available report, in addition to an EMS guidance document for metal finishers. The metal finishing report and guidance document will be completed by December 1997.

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## Office of Water (OW)

*EMS Demonstration Project.* This EPA project has provided seed money for 18 public and private organizations to put an EMS in place using ISO 14001 as a model. The program has provided initial training and follow-up consulting through NSF International. This initiative will generate a series of reports on the various pilot projects, which will be available through the OW resource center in both hard copy and on the Internet.

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*EMS Implementation Guide for Small- and Medium-Sized Organizations.* EPA's Office of Water and Office of Compliance, in conjunction with NSF International, has developed an implementation guide geared specifically to the needs of small- and medium- sized organizations. The elements of the document are based on the ISO 14001 Standard. The guide is formatted and written in such a way as to give these types of organizations useful ideas on how to begin implementing EMS and ways to find additional helpful information.

Using EMS To Meet Watershed Protection Goals. This project seeks to contribute to the attainment of watershed goals through a systembased voluntary approach. Participants are linked to achievement of watershed goals in the Arbor-Middle Kron River Watershed. A joint project of OW and the county government in Washtenaw County (Michigan), the initiative involves recruiting organizations to participate in training and improving technical systems relevant to the organization.

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*EMS* Implementation by Municipal Governments. OW hopes to work with selected municipal or county government organizations that are willing to implement EMS for their various activities, using ISO 14001 as a baseline. Preliminary discussions with interested parties have begun and an overall project implementation plan is expected in Fall 1997. This effort will demonstrate the relevance of EMS for publicsector organizations.

*0* W EMS Implementation Workgroup. OW, in conjunction with regional offices and states, is forming a Workgroup to explore possible ways to encourage implementation of EMS by facilities regulated under various parts of the water program. The Workgroup will concentrate on issues relating to regulatory programs in areas such as permitting, and explore the possible use of incentives for facilities with good compliance records that can also implement effective EMS. ISO 14001 will serve as the baseline for this effort, but the Workgroup will also examine other possible criteria that facilities may need to satisfy as a condition for any type of regulatory or other flexibility.

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## Office of Federal Facilities Enforcement

Code of Environmental Management Principles for Federal Agencies (CEMP). CEMP, an element of the Federal Government Environmental Challenge Program established in response to Section 4-405 of Executive Order 12856, is a set of five principles encouraging federal agencies to be more aware and visionary in their management of environmental protection issues. The principles incorporate many common elements of EMS, and ISO 14001 and several other public and private sector documents were used as background. A Pacific Northwest National Laboratory (PNNL) team supported EPA's Office of Federal Facilities Enforcement in developing the CEMP. EPA has asked federal agencies to endorse the principles and provide a description of how they will be implemented at the facility level.

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EMS Primer for Federal Facilities. EPA's Federal Facility Enforcement and DOE's Office of Environmental Policy and Assistance are jointly sponsoring the development of an Environmental Management Systems Primer for Federal Facilities with EPA's Office of Federal Facilities A PNNL team is supporting Enforcement. development. Topics covered will include an introduction to EMS and federal facility issues; the first steps in building an EMS; regulatory innovative regulatory approaches; issues; performance indicators; pollution prevention; audits and conformity assessment options; and the National Environmental Policy Act (NEPA). The primer is designed to be concise, include extensive references, and provide useful examples and concrete steps.

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(This entry is cross-listed under DOE initiatives in Chapter 3.)

#### National Enforcement Investigations Center

Compliance-Focused EMS. Since the late 1980s, civil multimedia compliance investigations conducted by the NEIC have increasingly involved identifying causes of observed When noncompliance. investigated. noncompliance most often appeared to be caused by dysfunctional EMS. Through this work and by participating in followup enforcement actions, NEIC developed criteria for a compliance-focused EMS that has been used as the basis for several of agreements the settlement when EMS improvements were required. The agreements required the organization to document policies, systems, procedures, and standards for 11 program elements, with the resulting document serving as a guidebook to more detailed procedures and processes located elsewhere at a facility.

The intended result is to develop an EMS that will both improve the organization's compliance with applicable environmental requirements and lead to improved environmental performance. The elements were synthesized primarily from EMS assessment protocols developed for the Global Environmental Management Initiative (1992) and a regulated industry (1994) by Deloitte and Touche LLP of San Francisco; ISO 14001; National Sanitation Foundation EMS standards (NSF 11 O-1 995); and the due diligence definition in the EPA policy regarding Incentives for Self-Policing (60 FR 66710). Element refinement continues through settlement negotiations and discussions with EPA staff, EMS consultants, and environmental personnel from several companies with medium and large facilities.

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#### **Project XL**

XL projects are real world tests of innovative strategies that achieve cleaner and cheaper results than conventional regulatory approaches. EPA will grant regulated entities regulatory flexibility in exchange for their commitment to achieve better environmental results than would have been attained through full regulatory compliance.

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## EPA REGIONAL INITIATIVES AND SUPPORT

## Region 1

*StarTrack*. EPA's regional office in Boston is conducting a groundbreaking experiment to privatize compliance assurance for leading companies. Built on the ISO 14000 model, the region will be empowering third parties to certify to three basic components: 1) an environmental

CHAPTER 2: U.S. EPA INITIATIVES

management system modeled on ISO 14001; 2) facility environmental compliance and pollution prevention audits; and 3) a commitment to correct certain violations within an established time frame. The third party will certify to each component and provide a summary report. In return, EPA will grant certified companies limited penalty amnesty, no routine inspections, simplified reporting and expedited permitting. EPA plans to refocus resources previously devoted to these sources to issues that pose a greater risk to the environment.

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Environmental Leadership **Program-New** England. EPA's regional office in Boston is conducting a regional environmental leadership program to encourage and reward environmental leadership and to experiment with alternative models to achieve environmental compliance. The region periodically requests applications for businesses or other organizations that have demonstrated a commitment to environmental performance going beyond regulatory compliance. Selected organizations receive public recognition, and partner with the region to experiment with alternative approaches. In many cases, companies are experimenting with approaches based on the ISO EMS, including self-certification and mentoring EMS implementation with customers and suppliers.

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#### **ISO 14000 RESOURCE DIRECTORY**

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Compliance Leadership Through Environmental Audits and Negotiation (CLEAN), EPA's regional office in Boston has launched an effort to improve environmental management and performance in smaller companies. In exchange for a commitment to achieve performance, in part by adopting pollution prevention practices, SMEs receive a comprehensive compliance and pollution prevention assessment by a partnership comprising federal, state, and private sector experts. The program is determining how these assessments may include an analysis of EMS based on 14000 to help these small companies maintain compliance.

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## **Region 3**

**ISO 14000 Project** XL. The projects combine the ISO 14000 standards with the requirements of the Project XL initiative, thereby adding greater environmental specificity to the usage of ISO 14000 standards in the United States. As the EMS is developed, EPA will focus on defining superior environmental results, establishing public involvement, developing methods of pollution prevention, and improving processes and results.

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## **Region 4**

Using ISO 14000 in the Paper Industry. The Weyerhaeuser Flint River Operations paper mill has signed a Project XL Agreement with EPA. The Weyerhaeuser paper mill will implement ISO 14000 at its Flint River site in Georgia. The overall objective of this XL Agreement will be to half the solid waste at the facility, cut energy consumption, reduce the toxic waste stream, and set records for low water usage for a paper mill of its size.

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## **Region 5**

*Life Cycle Assessment Methodology.* This effort is developing and demonstrating Life Cycle Assessment (LCA) applications within industry and government. Specifically, the focus has been on streamlined LCA applications. Existing LCA data is being analyzed using methods currently employed by LCA practitioners. Areas of demonstration include alternative adhesives for auto interiors, recycled versus virgin newsprint for newspapers, alternative cleaning systems, fiberglass reinforced plastics, and composite wood. The estimated completion date is September 1997.

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## **Region 6**

**ISO 14000:** A National Dialogue. This national conference was one in a series of events designed to facilitate a dialogue on issues surrounding ISO 14000 and its implementation. EPA Region 6 presented this conference in conjunction with the Global Environment & Technology Foundation (GETF) and the University of Texas at Arlington (UTA) on November 1 1-12, 1996, at the UTA campus.

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## **Region 8**

*EMS for Federal Facilities.* EPA Region 8 conducted EMS reviews at selected federal facilities in February 1997. In conjunction with this activity, an EPA consultant offered training in the ISO 14001 Standard.

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## **Region 9**

*The Merit Partnership for Pollution Prevention.* The Merit Partnership for Pollution Prevention is a "public-private partnership" dedicated to the advancement of pollution prevention technologies and practices that both protect the environment and aid economic growth.

Merit is developing a series of pilot projects to demonstrate the environmental and economic impacts of ISO 14001. The Merit ISO projects will explore a number of issues, including the effect of ISO 14001 on a company's environmental insurance options, how ISO 14001 may affect companies' government procurement opportunities, the accounting costs of the development and implementation of ISO 14001, and the effect of ISO 14001 on companies' environmental compliance records.

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## **Region 10**

*Evaluation* of *Policy Implications* of *ISO* 14000 and Other EMS Standards. The overall objective of this effort will be to examine how ISO 14000 and other EMS standards can help make regulatory activities more effective (reducing pollution) and efficient (reducing the costs of assistance, compliance, and enforcement). This assessment will include a review of existing pilot projects and initiatives on a regional and national level, a review of the professional literature related to standards deployment, and an analysis of what this information implies for policy making and regulatory reform efforts currently underway within the region.

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State **of** Washington Department **of** Ecology **ISO 14000 Leadership Project.** Please see Chapter 4, under Washington, for full listing.

# 3

# OTHER FEDERAL INITIATIVES

Many federal agencies besides EPA are also interested in the ISO 14000 series of standards. These range from the Department of Commerce, which has an interest in how the standards may affect trade and competitiveness, to the U.S. Army, which is considering using ISO 14001 management systems principles to manage their facilities This chapter includes initiatives funded and managed by federal government departments and agencies other than EPA. The listed initiatives explore the use of ISO 14000 in their respective jurisdictions and also application of ISO 14000 within the departments or agencies themselves.

- 1. Department of Commerce
  - 2. Department of Defense
    - 3. Department of Energy
      - 4. Department of State
- 5. Food and Drug Administration
  - 6. Federal Trade Commission
    - 7. U.S. Postal Service

## **DEPARTMENT OF** COMMERCE

# National Institute of Standards and Technology (NIST)

*Informational Paper.* The NIST has published an informational paper on the evolving ISO 14000 series.

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interagency Committee on Standards Policy's EMS/ISO 14000 Workgroup. The operating guide for the Workgroup is to provide information and recommendations to the Interagency Committee on Standards Policy regarding development and implementation of the ISO 14000. The committee has chosen to focus its initial efforts on four main areas: 1) implementation and integration with other systems and federal role in pilots; 2) metrics and evaluation of proposed indicators, cost measurement, and relationship to current indicators; 3) technical assistance and the role of federal government in providing technical assistance to NGOs, SMEs, other state and federal government bodies; 4) procurement and ISO 14000 fit with policies, contracting issues, and federal acquisition regulations. The Workgroup is co-chaired by Ms. Mary McKiel of EPA and Mr. Larry Stirling of DOE.

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#### Manufacturing Extension Partnership (MEP)

Formerly the Manufacturing Technology Center program, this partnership is a nationwide system of manufacturing extension centers, state planning nonprofit support, and coordinated information, services, and resources. The partnership is designed to bridge a technological gap between sources of manufacturing technology and the small- and medium-sized enterprises (SMEs) that need to improve their competitiveness through the use of appropriate modem technologies, processes, and techniques.

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	Manufacturing Extension Partnership

**ISO 14000 Workgroup for the National P2 Roundtable.** Please see Chapter 4, under North Carolina, and Chapter 5, under Nongovernmental Organizations, for full listing.

ISO 14000/EMS Gap Analysis Tool Suite. The tool suite will include an implementation primer that will detail protocol for implementation of an EMS gap analysis with three appendices. A case study of an EMS gap analysis used as a screening tool by field engineers and consultants for marketing, to present the benefits of ISO 14000 and EMS will be included. One initial output from the screening tool will be a 1-2 page letter with a visual attachment showing gaps in conformance to ISO 14001. This gap analysis will cover the main elements of the standard and may lead to a detailed EMS gap analysis or an implementation project. Also, the appendices will illustrate the EMS gap analysis as a detailed ISO 14001 audit, and include an interpretation guide (glossary of terms).

The tool will use a "look for ... and look at..." type of format with a rating system for the field engineer or consultant to rank the company on a per-element basis. This project is being created by a consortium of MEP centers, urivate firms. and NIST-MEP.

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	Environmental Projects Manager
	Office of Standard Services & Manufacturing
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	Environmental Program Manager
	Lake Erie MEP
	1700 North Westwood Avenue
	Toledo, OH 43607-1207
Tel:	4 1 g-534-3705
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E-mail:	stan.carson@eisc.org

*GreenscoreTM.* GreenscoreTM is an environmental self-assessment tool.

Addr:Paul Chalmer<br/>NCMS<br/>3025 Boardwalk Drive<br/>Ann Arbor, MI 48 108-3266Tel:313-995-4911Fax:3 13-995-1 150E-mail:paul.chalmer@ncms.org

URL: http://www.ncms.org

*Environmentally Conscious Manufacturing* (*ECM*). Please see Chapter 4; under Maine, for full listing.

**ISO 14000** Awareness for Maryland Manufacturers. Please see Chapter 4, under Maryland, for full listing.

*Vermont Manufacturing Extension Center.* Please see Chapter 4, under Vermont, for full listing.

# **DEPARTMENT** OF DEFENSE (DOD)

#### Environmental Management Systems Committee

The Office of the Deputy Undersecretary of Defense for Environmental Security has established an Environmental Management Systems Committee to examine the feasibility of implementing EMS, such as the ISO 14000 series. In addition to work within the Department, DOD is working with North American Trade Organization (NATO) and Partnership for Peace nations (Eastern European nations, the newly independent Baltic/Slavic states, Finland, and Sweden) to determine how environmental management systems can be implemented in the military. The purpose of DOD analysis of environmental management systems is to determine whether adoption of environmental management standards will improve the quality of DOD's environmental programs through the application of uniform quality management techniques.

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	3400 Defense Pentagon
	Washington, DC 2030 I-3400
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Fax:	703-607-3124
E-mai)	l:portham@acq.osd.mil

## U.S. Army

Adoption of ISO 14000 Methodologies for Environmental LCA being conducted on weapon systems and materials. The Systems Life Cycle Readiness Office, Armament Research and Development Command, acts as a bridge between the developer and the producer of new materials and systems. Key aspects include life cycle evaluations of producibility and environmental impacts, costs, and risks. This office conducts environmental LCAs (research and development, production, fielding and storage, and disposal) of new components or systems. It also works closely with operating sites on environmental management plans and initiatives on pollution prevention and compliance. This parallels industry's life cycle stages and activities as addressed by EPA, Society of Environmental Toxicology and Chemistry (SETAC), and ISO 14000.

Recent DOD guidance on Acquisition Strategy has strengthened many areas of LCAs that are parallel with emerging SETAC and ISO guidance.

Addr:	Lawrence <b>R.</b> Laibson Systems Life Cycle Readiness Office AMSMC-STA-AR-SRE
	Building 172
	Picatinny Arsenal, NJ. 07806-5000
Tel:	20 1-724-2822
Fax:	201-724-4096
E-mail:	llaibson@pica.army.mil
URL:	http://www.pica.army.mil./orgs/slcro/ top.html

Total Quality Environmental Management (TQEM) - Green Initiatives. This program is a U.S. Army Armament Research, Development, & Engineering Center (ARDEC) program that provides linkage between current quality initiatives and programs in environmental stewardship. The pilot programs will be implemented by industry and government partners who will voluntarily adopt the ISO 14000 environmental management system By achieving ISO 9000/14000 standards. certification, Army contractors and government facilities will improve quality, reduce operations costs, and develop products for both U.S. and foreign military sales; enhance their competitive position and facilities reputation; and reduce government oversight. Finally, the pilot programs will also offer an excellent opportunity to partner with U.S. Army materiel contractors to jointly pursue acquisition reform strategies.

Addr:	Henry J. Van Dyke III U.S. Army Armament Research Development and Engineering Center Industrial Ecology Center Product Assurance Attn: AMSTA-AR-ET(QA)
<b>Tel:</b> <b>Fax:</b> E-mail: URL:	Building I72 Picatinny Arsenal, NJ 07806-5000 20 I-724-407 1 or DSN 880-407 I 201-724-6759 henryv@pica.army.mil http://www.pica.army.mil/orgs/eto/top.html

*ISO 14001 Feasibility Initiative*. The U.S. Army is evaluating the applicability of the ISO 14001

standard to the facility's existing environmental programs. With assistance from Concurrent Technologies Corporation, this initiative will explore the current status of the environmental programs at the DOD facility, identify the missing ISO 14001 requirements or "gaps" between these programs and the EMS standard; the standard requirements and the associated costs and benefits of modification; and realign and adopt ISO 14001 requirements.

## Addr: John Thorns Concurrent Technologies Corporation 1450 Scalp Avenue Johnstown, PA 1.5904 Tel: 8 14-269-6805 Fax: 8 14-269-2798 E-mail: thoms@ctc.com URL: http://www.ctc.com

#### Air Force ISO 14001 Workshops

A series of ISO 14001 primers and introductory, overview, and implementation workshops for the U.S. Air Force Materiel Command, in conjunction with Concurrent Technologies Corporation, will be initiated. Headquarters and base-level training are to be provided. Training will be specifically directed to DOD requirements and mission-specific activities.

#### Addr: Joe Hollingsworth

	Concurrent Technologies Corporation
	Suite 165
	Fairborn, OH 45324
Tel:	5 13-429-6 178
Fax:	5 13-429-6178
E-mail:	hollings@ctc.com
URL:	http://www.ctc.com

#### U.S. Navy EMS Evaluation

The U.S. Navy is evaluating EMS and ISO 14000 as they pertain to Navy operations to identify and quantify any value added by their implementation. This effort will lead to the development of U.S. Navy policy on EMS and/or ISO 14000.

#### Addr: Catharine Cyr

Office of the Chief of Naval Operations 221 I South Clark Place Arlington, VA 22244-5 108

Tel:	703-602-5335
Fax:	703-602-2676
E- mail:cyrc@N4.opnav.navy.mil	

Addr:	Terry Bowers
	Office of the Chief of Naval Operations
	Arlington, VA 22244-5 108
Tel:	703-602-4769
Fax:	703-602-5547
E-mail:	bowerst@N4.opnav.navy.mil

## Naval Surface Warfare Center (NSWC) Carderock ISO 14000 Implementation and Certification

NSWC Carderock is pursuing its first ISO 14000 certification at its Philadelphia site. Gap analysis has been completed and process documentation is underway as of March, 1997. ISO 14000 is being pursued in an attempt to gain competitive advantage, to reduce risk in environmental programs by establishing consistent and repeatable processes, to reduce dependence on personality-driven environmental programs, and to establish a framework for managing environmental impacts.

#### Addr: Sondra Gutkind

Tel:

Fax:

Naval Surface Warfare Center, Carderock Division Philadelphia, PA 19112-5083 2 15-897-7828 215-897-7030 E-mail: gutkind@oasys.dt.navy.mil

## DEPARTMENT OF ENERGY (DOE)

#### **Energy Facilities Contractors** Group (EFCOG) ISO 14000 Working Group

EFCOG is a self-directed group of senior level contractor executives who manage and operate DOE and production laboratories. manufacturing facilities, and environmental restoration projects. EFCOG member companies have joined together for the purpose of exchanging management and technical information in areas of mutual interest. EFCO's objective is to promote, coordinate, facilitate, encourage, and support information exchanges between facilities on successful programs, practices, procedures, and lessons learned. The ISO 14000 Working Group (ISO 14000 WG) is a working committee whose intent is to facilitate the objectives of EFCOG as related to the particular area of EMS. The purposes of the ISO 14000 WG include promoting excellence in DOE EMS by sharing information and lessons learned, facilitating the exchange of information and experiences in implementing the ISO 14000 series of EMS standards, and communicating the implications for integrating strategic environment, safety, and health management programs into the daily operations at DOE sites. Working group participation will provide EFCOG member companies the opportunity to exchange information and to discuss the benefits of ISO 14000.

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Tel:	202-586-24 17
Fax:	202-586-0955
E-mail:	john.stirling@hq.doe.gov
Addr:	George <b>D. Greenly, Jr.,</b> CCM, QEP,
nuur ,	Chairman
	Battelle-Pantex
	P.O. Box 30020 (12-1 32)
	Amarillo, TX 79 120-0020

- Tel: 806-477-5955
- Fax: 806-477-55 I8
- E-mail: ggreenly@pantex.com

#### Diane Meier, Vice Chair Addr:

Lawrence Livermore National Laboratory L-197 20201 Century Boulevard, First Floor Germantown, MD 20874

Tel: 301-916-7719 301-916-7777 Fax:

E-mail: meier6@llnl.gov

## EMS Fact Sheets

DOE's Office of Environmental Policy and Assistance is developing a series of fact sheets addressing topics related to EMS. The fact sheets provide basic information and communicate DOE's approach to EMS issues. Topics in the series consist of frequently asked questions; getting started; EPA's Code of Environmental Management Principles (CEMP); identifying environmental aspects and impacts; and pollution prevention. A PNNL team is supporting the project.

A ddr: Larry Stirling

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#### Addr: Dr. Jean Shorett

Pacific Northwest National Laboratory 901 D Street, SW Suite 900 Washington, DC 20024-2 1 15 *Tel:* 202-646-7809

Far: 202-646-7838 E-mail: je\_shorett@pnl.gov

#### Environmental Management Systems at DOE

DOE's Office of Environmental Policy and Assistance (EH-41) is actively evaluating uses of the ISO 14001 EMS Standard in improving the environmental sensitivity of DOE operations. This effort comprises an expanding list of activities, such as drafting and releasing a Secretarial memorandum encouraging ISO 1400 l use in the field; integrating EMS with DOE's Integrated Safety Management System; preparing EMS guidance documents and fact sheets; raising awareness through panel discussions, invited presentations, conferences, white papers, and briefings; integrating EMS with National Environmental Policy Act (NEPA), pollution prevention, and contract reform; organizing an internal EMS Work Group, a baseline survey of EMS awareness at DOE facilities, ISO 14001 training and technical assistance to sites; working with DOE's Energy Facility Contractor Group and posting a Web site on ISO activities linked to DOE's home page. DOE is also collaborating with EPA on EMS issues. DOE also works with EPA's Office of Federal Facilities Enforcement to produce an EMS Primer for Federal Facilities, co-chairs an EMS Interagency Working Group with EPA's Mary McKiel, and provides review and comment on CEMP, which DOE has endorsed.

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#### **EMS Primer for Federal Facilities**

Please see Chapter 2, Headquarters Initiatives, Office of Federal Facilities Enforcement, for full listing.

Implementation of ISO 14001 at Westinghouse-Managed DOE Sites. Westinghouse is reviewing and modifying its environmental management systems to ensure they conform to the ISO 14001 standard at three sites it manages for the Department of Energy: the Savannah River Site, near Aiken, SC; the West Valley Demonstration Project, near West Valley, NY; and the Waste Isolation Pilot Plant, near Carlsbad, NM. A fourth operation, Safe Sites of Colorado (a Westinghouse and Babcox and Wilcox joint venture), is also working to ensure its EMS conforms to the standard. Safe Sites of Colorado is a subcontractor for Kaiser-Hill, the integrating contractor for the DOE at its Rocky Flats site near Golden, CO.

#### Addr: Larry Stirling

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**Tel:** 202-586-2417

Fax: 202-86-0955

E-mail: john.stirling@hq.doe.gov

Addr: Tom DuPlessis Westinghouse Electric Corporation Environmental Affairs Department, Government ES&H Programs 11 Stanwix Street, Room 218 1 Pittsburgh, PA 15222- 1384 
 Tel:
 412-642-3990

 Fax:
 412-642-3224

 E-mail:
 dupleste@westinghouse.com

Strategic and Program Planning for EMS Initiatives. DOE has been a leader in evaluating uses of the ISO 1400 1 EMS Standard in improving management of its environmental activities. Initiatives consist of EMS strategic and program planning; linking EMS to other agency initiatives (e.g., integrated Environmental Health & Safety, NEPA, pollution prevention); using ISO 14001 in streamlining internal directives; analyzing statutory and regulatory impacts; preparing EMS technical materials; developing program and field implementation strategies; developing fact sheets, briefings, and guidance materials; coauthoring technical papers; preparing presentations; and supporting internal and interagency EMS working groups. Since 1994, a PNNL team has provided support in developing these activities.

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	Pacific Northwest National Laboratory		
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	Suite 900		
	Washington, DC 20024-2 11.5		
Tel:	202-646-7809		
Fax:	202-646-7838		

E-mail: je\_shorett@pnl.gov

### **DEPARTMENT OF** STATE (DOS)

### . US-Asia Environmental Partnership (US-AEP)

Led by the United States Agency for International Development (USAID), US-AEP was founded in 1992 to assist in addressing environmental degradation and sustainable development issues in

the Asia/Pacific region by mobilizing U.S. environmental experience, technology, and practice. The program brings together 25 U.S. government departments and agencies and thousands of businesses and nongovernmental organizations that work with 35 nations and territories in Asia and the Pacific. US-AEP activities focus on the objective of promoting an Asian "clean revolution" the extensive development and adoption of continuing continuously less polluting and more resource efficient products, processes, and services in the Asian region. While individual US-AEP activities seek practical solutions to local problems, the cumulative effort positively affects global environmental issues.

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	US-Asia Environmental Partnership	
	U.S. Agency for International Development	
	Department of State	
	Washington, DC 20523	
Tel:	202-647-5806	
Fax:	<b>202-647-</b> 180.5	
E-mail:lreade@usaid.gov		
URL:	http://www.usaep.org	

**US-AEP** Clean Technology and Environmental Management Initiative (CTEM). Under this initiative, US-AEP works with Asian governments, industries, professional associations, and trade academic institutions to promote cleaner methods of Activities focus on incentives that production. persuade companies to refine environmental enhancing the capacity of those practices: businesses to respond to incentives; and the transfer of technology that takes advantage of the incentives and capacities within a given business, industrial sector or country. Through consultations, seminars, workshops, and exchanges, these activities promote the understanding and adoption of voluntary standards for corporate environmental management.

### Addr: Julie Haines, Managing Director, CTEM U.S.-Asia Environmental Partnership

	1720 Eye Street, Suite 700	
	Washington, DC 20006	
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US-AEP Clean Technology and Environmental Management Information Centers (CTEM). CTEM Information Centers provide accurate and timely information to the Asian business community. Each center is staffed with an information specialist who uses in-house print and electronic resources, the Internet, and personal contacts to promote the CTEM concept.

Addr:Mr. Enrico Rubio, Information Specialist<br/>G/F DAP Building<br/>San Miguel Avenue, Pasig City<br/>Metro Manila, 160 l, PhilippinesTel:+63-2-635-2650Fax:+63-2-631-5714E-mail:ctem@mnl.cyb-live.com

Addr:Ms. Kavita Gandhi, Information SpecialistSMA House20 Orchard Road #02-00Singapore238830Tel:+65-338-8787/331-1586 (DID)Fax:+65-338-5906E-mail:ctemsin@pacific.net.sg

 Addr:
 Kerith McFadden, Information

 Specialist
 1720 Eye Street, NW, Suite 600

 Washington, DC 20006
 Vashington, DC 20006

 Tel:
 202-835-8357

 Fax:
 202-496-9720

*E-mail:* kmcfadden@usaep.org

**US-AEP Environmental Exchange Program** (*EEP*). US-AEP's EEP provides Asian professionals and organizations with opportunities for addressing critical environmental needs by identifying sources for U.S. technology, observing and evaluating facilities first-hand for their suitability, meeting with potential partners, and conferring with U.S. government and industry authorities. The program helps link leading ISO 14000 experts in the United States to top 5 industry leaders and environmental professionals in Asia to discuss EMS standards and their implications for industry.

Addr: Administrative Manager Institute of International Education 1400 K Street, NW Suite 650 Washington, DC 20005-2403 
 Tel:
 202-326-7706

 Fax:
 202-326-7709

 E-mail:
 eep@iie.org

 URL:
 http://www.usaep.org

### FOOD AND DRUG ADMINISTRA-TION (FDA)

### Standards Policy Committee

The Standards Policy Committee is composed of senior FDA management officials who set agency-wide policy with respect to the development and use of standards. FDA employees actively participate with a variety of private standards organizations, both domestic and international. FDA develops product standards, criteria for the assessment of test data, and enforcement procedures, and also includes ISO 9000 and ISO 14000 for quality and environment management system registration.

Addr: Linda Horton, Director of International Policy FDA / Office of Policy 5600 Fishers Lane, Room 15-74 (HF-23) Rockville, MD 20857
Tel: 301-827-3344
Fax: 301-443-6906

*E-mail:*lhorton@bangate.fda.gov *URL:* http://www/fda.gov

### FEDERAL TRADE COMMISSION (FTC)

### Environmental Marketing Claims Guidelines

These 1992 guides are administrative interpretations of laws administered by the FTC to help public comply with the law covering environmental marketing claims. Inconsistent conduct may result in corrective action taken by the FTC under §5 of the FTC Act, which prohibits false or deceptive claims in advertising or labeling. The guidelines focus on

#### ISO 14000 RESOURCE DIRECTORY

what environmental claims mean to consumers and are meant to bolster consumers' confidence in environmental claims and reduce manufacturers uncertainty about which claims might lead to FTC law enforcement actions. The guidelines address general environmental benefit claims and the use of terms such as degradate, recyclable, recycled, source reduction, refillable, and ozone-safe claims.

### Addr: Michael Dershowitz

Federal Trade Commission Division of Advertising Practices 60 l Pennsylvania Avenue, NW Washington, DC 20580 Tel: 202-326-3 i58 Fax: 202-326-3259 URL: http://www.ftc.gov

# U.S. POSTAL SERVICE (USPS)

### Development of I**SO** 9000114000 Protocol for Fleet Maintenance Activities

USPS - Southeast Area is in the initial stage of developing an ISO protocol that will blend the quality improvement aspect of ISO 9000 with the environmental improvements associated with ISO **14000.** 

The USPS's Southeast Area fleet management organization provides operations and maintenance support to approximately 25,000 USPS-owned vehicles assigned throughout a five-state area. By combining ISO 9000 and ISO 14000 protocol, USPS anticipates providing a more uniform, cost effective process of fleet management while improving the environmentally sensitive aspects of operating a large commercial fleet.

Developing this protocol should begin in early 1997, with "first article" roll out anticipated in Fall 1997.

Addr: Robert Martin Southeast Area Office - USPS 225 N. Humphreys Boulevard Memphis. TN 38 166-0860 Tel: 901-747-7635

*Fax:* 901-747-7482

# 4

# STATE INITIATIVES

State governments are examining ISO 14000 and its relevance to state environmental compliance and permitting activities. States are also providing technical assistance to organizations interested in ISO 14000. Besides the initiatives directly managed by state governmental agencies, this chapter includes other geographically based initiatives such as those of the National Institute of Standards Manufacturing Extension Partnership Centers.

### 1. Alphabetical Listings by State

### MULTI-STATE WORK GROUP

The Multi-State Work Group on environmental management systems includes representatives from California, Texas, Oregon, Arizona, Illinois, Minnesota, Wisconsin, Pennsylvania, Massachusetts, and North Carolina. The Work Group has prepared a voluntary project design document, including a Project Evaluation Matrix, which can be used by states and others in the design of projects involving ISO 1400 1.

### A ddr : Dr. Robert Stephens

CAL/EPA Dept. of Toxic Substances Control Hazardous Materials Laboratory 2 I 5 I Berkeley Way, Room 5 15 Berkeley, CA 94704 5 I O-540-3003

Fax: 5 1 0-540-2305

Tel:

### ALABAMA

### Department of Environmental Management

Alabama is in the preliminary stages of investigating possible application.

Addr:Richard E. Grusnick, Deputy Director<br/>Alabama Department of Environmental<br/>Management<br/>P.O. Box 301463<br/>Montgomery, AL 36130-1463Tel:334-271-7710Fax:334-27 I-7950E-mail:adem@state.al.us

### ARKANSAS

# ISO 14000 Infrastructure Development

Westark College Business and Industrial Institute is partnering with the Arkansas Department of Pollution Control and Ecology to develop ISO 14000 training. This training will support efforts of Arkansas companies to develop and implement EMS that can be certified to ISO 14000.

### Addr: Mike Jones

	Westark College
	P.O. Box 3649
	5210 Grand Avenue
	Ft. Smith, AR 72413-3649
Tel:	501-788-7763
Fax:	501-788-7780
E-mail:	mjones@systema.westark.edu

# CALIFORNIA

### CAL/EPA ISO 14000 Pilot Project

CAL/EPA will conduct two to four pilot demonstration projects to test and evaluate the utility of an EMS in achieving and maintaining compliance with regulatory requirements, continuing environmental improvement, and streamlining regulatory procedures.

Addr:	Robert Stephens, Chair		
	CAL/EPA Task Force on ISO 14000		
	Department of Toxic Substances Control		
	Hazardous Materials Laboratory		
	2 15 I Berkeley Way, Room 5 I 5		
	Berkeley, CA 94704		
Tel:	5 10-540-3003		
Fax:	5 1 0-540-2305		

### San Francisco Bay Area Green Business Program

Businesses in full environmental compliance with relevant multimedia regulations (air, land, and water) and **meeting** program defined, industry-specific standards for energy and water conservation, solid waste reduction, and pollution prevention will be recognized as "green." After local governments certify the company as green, it may then use the program logo in its advertising to attract environmentally conscious consumers. This program does not include standards for an EMS per se.

Addr: Jennifer Krebs, Senior Environmental Planner Association of Bay Area Governments Oakland, CA 94604 

 Tel:
 5
 1
 0-464-7977

 Fax:
 5
 1
 0-464-7980

 E-mail:jenniferk@abag.ca.gov

# COLORADO

### **Pollution Prevention Program**

The Colorado Department of Public Health and Environment has included ISO 14000 as a possible criterion in a proposed program that would reduce government oversight and provide financial incentives to companies who excel in environmental performance.

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	Pollution Prevention Program
	OE B2 PPU Colorado Department of Public
	Health and Environment
	4300 Cherry Creek Drive North
	Denver, CO 80222-1530
Tel:	303-692-3009
Fax:	303-782-4969
E-mail:parry.burnap@state.co.us	

### CONNECTICUT

# Common Sense Initiative, and StarTrack Pilot Project

As part of EPA's Common Sense Initiative, Environmental Leadership Program and **StarTrack** Initiatives in Connecticut, the state of Connecticut is participating in pilot projects that focus on EMS and ISO 14000.

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	State of Connecticut, DEP
	79 Elm Street
	Hartford, CT 06 106-5 127
Tel:	860-424-3003

*Fax:* 860-424-4077

```
E-mail: robert.kaliszewski@po.state.ct.us
```

URL: http://www.state.ct.us/dep

### DELAWARE

### **Department of Natural Resources**

Delaware is tracking and investigating ISO 14000 activities of other interested states.

Addr:	Nicholas A. DiPasquale, Director
	Division of Air & Waste Management
	Delaware Department of Natural Resources
	P.O. Box 140 1
	89 Kings Highway
	Dover, DE 19903
Tel:	302-739-4764

Fax: 302-739-5060

*E-mail:* ndipasquale@dnrec.state.de.us

# FLORIDA

### Florida Department of Environmental Protection (FDEP)

EMS help ensure compliance with state and federal regulations and requirements, and can serve as a mechanism to guide improvement in environmental performance. FDEP is working closely with the business community to foster a cooperative spirit of putting well-crafted EMS in place.

Addr:	Michael Phillips	
	FDEP	
	3900 Commonwealth Boulevard (18)	
	Tallahassee, FL. 32399-3000	
Tel:	904-92 1-97 17	
Fax:	904-488-7093	
E-mail:	phillips_M@epic9.dep.state.fl.us	
URL:	http://www.dep.state.fl.us	

# GEORGIA

# Pollution Prevention Assistance Division (P2AD)

P2AD provides industry within the state information regarding ISO 14000. This is done through P2AD newsletters, assessments, and participation in industry conferences.

Addr:	Matt Barcaskey
	GeorgiaP2AD
	7 Martin Luther King, Jr. Drive, Suite 450
	Atlanta, GA 30334
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Fax:	404-65 1-5 130
E-mai	1:p2ad@ix.netcom.com
URL:	http://www.dnr.state.ga.us

# IDAHO

### Idaho Manufacturing Alliance

The executive director currently conducts ISO 14000 training workshops across the state of Idaho.

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Tel: 208-385-3689
Fax: 208-385-3877
E-mail: jsteinf@idbsu.bsu.edu

# INDIANA

### **Small Business Pilot Project**

The Indiana Department of Environmental Management (IDEM) and EPA plan to undertake three to five pilot projects as part of the thet-moset plastics sector of the Sustainable Industry Project. The project has three distinct goals: 1) to identify the problems faced by small businesses trying to implement an EMS, 2) to identify the infrastructure and support needed by small businesses for EMS implementation, and 3) to demonstrate a new regulatory regime for small businesses.

IDEM and EPA have identified project resources to help small businesses through the project, including a) an IDEM grants program that in place will help offset some of the costs in implementing an EMS; b) technical assistance from IDEM's Compliance and Technical Assistance Program; c) additional technical assistance from the Indiana Pollution Prevention and Safe Materials Institute at Purdue University; d) regional EPA technical assistance from EPA Region 5; and, e) reporting and permitting flexibility from IDEM and EPA.

	Unit I		ALL MAKA	100
anco	ck			

CHAPTER 4. STATEINITIATIVES

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Indiana Department of Environmental					
	Management				
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	P.O. Box 6015				
	Indianapolis, IN 46206				
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Fax:	317-233-5627				
E-mail:	mhanc@opn.dem.state.in.us				
URL:	http://www.epa.gov/oppe/isd/indiana.htm				
Addr:	Carl Koch				
	U.S. EPA, OPPE				
	401 M Street, SW				
	Washington, DC 20460				
Tel:	202-260-2739				
Fax:	202-260-9322				
E-mail:	koch.carl@epamail.epa.gov				
URL:	http://www.epa.gov/oppe/isd/isd.htm				

# IOWA

### Iowa Waste Reduction Center (IWRC) EMS Assistance Program

The IWRC provides ISO 1400 1 EMS development assistance to small businesses in Iowa.

Addr:	Marci Carter	
	University of Northern Iowa	
	75 Biology Research Complex	
	Cedar Falls, IA 506 14-0185	
Tel:	3 1 g-273-2079	
Fax:	3 19-273-2926	
E-mail:	carterm@uni.edu	
URL:	http//www.iwrc.uni.edu	

### Waste Reduction Assistance Program (WRAP)

Through on-site assessments, workshops, and continual support, WRAP provides nonregulatory, confidential, no-cost assistance designed to reduce wastes and enhance a company's bottom line. The program targets Iowa business and industry with more than 100 employees or those classified as RCRA large quantity generators.

Addr:	Beth Hicks
	Iowa Department of Natural Resources
	900 East Grand Avenue
	Des Moines, IA 50309
Tel:	515-281-8927
Fax:	5 15-28 1-8895
E-mail:	ehicks@max.state.ia.us.
URL:	http://www.recycleIowa.org

# KANSAS

### Environmental Management System

K.S.A. 60-332 et seq., enacted by the 1995 Kansas legislature, outlines the components of an EMS. If a finding of violation occurs, a facility that has implemented an EMS is afforded consideration by the court or administrative tribunal in determining whether to impose an administrative, civil, or criminal penalty and the severity of the penalty. The Kansas Department of Health and Environment is actively encouraging facilities to implement EMS.

Addr:	Theresa Hedges
	Kansas Department of Health and
	Environment
	Office of Science and Support
	Building 283, Forbes Field
	Topeka, KA 66620
Tel:	913-296-6603
Fax:	9 13-29 1-3266

# KENTUCKY

### Kentucky Pollution Prevention Center's (KPPC) **ISO** 14000 Awareness

KPPC is facilitating ISO 14000 training through contractors, partnerships with other assistance by downlinking providers, and national teleconferences. It has sponsored/presented two 2day workshops in Louisville and Lexington, KY. In two 3-hour teleconferences addition. were downlinked in those two cities in October 1996. A presentation titled "An Overview of IS0 14000" has been offered at conferences and lecture series statewide. KPPC will continue to provide training opportunities for Commonwealth business as well as further identify its role in ISO 14000 implementation.

Addr:	<b>Cam Metcalf,</b> Executive Director Kentucky Pollution Prevention Center
	420 New Academic Building
	University of Louisville
	Louisville, KY 40292
Tel:	502-852-0965
Fax:	502-852-0964
E-mail: URL:	jcmetc01@ulkyvm.louisville.edu http://www/louisville.edu/org/kppc

# LOUISIANA

### Department of Environmental Quality

*Environmental Leadership/ISO 14000.* The Louisville Department of Environmental Quality (LDEQ) Office of Secretary is developing an Environmental Leadership Program/ISO 14000 initiative for Louisiana's business and industry. A coordinator provides consultation and workshops to educate interested parties regarding U.S. government policy regarding ISO 14000, including environmental management systems (EMS).

Addr:	Gary Johnson/Hugh Finklea
	Louisiana Department of Environmental
	Quality
	P.O. Box 82263
	Baton Rouge, LA 70884-2263
Tel:	504-765-0720
Fax:	504-765-0742
E-mail:	gary_j@deq.state.la.us

### Environmental Leadership Pollution Prevention Program

This is a cooperative effort between the Louisiana Department of Environmental Quality and Louisiana's industry that encourages companies to assume environmental leadership roles by committing to minimizing their waste streams in all media, and participating in activities to enhance Louisiana's environment.

Addr:	Charles Killebrew. Technical Manager
	Technical Program Support Section
	Louisiana Department of
	Environmental Quality
	Office of the Secretary
	P.O. Box 82263
	Baton Rouge, LA 70884-2263
Tel:	504-765-0720
Fax:	504-765-0742

### MAINE

### Department of Environmental Protection (DEP)

As a component of the state's Environmental Excellence: Maine Program, DEP works with businesses developing EMS (including ISO 14000) to review gap analyses and provide compliance assistance and regulatory review as the plans are developed.

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	Maine DEP
	STP #17
	Augusta, ME 04333
Tel:	207-287-28 11
Fax:	207-287-28 14
E-mail:	ron.e.dyer@state.me.us

# Center for Technology Transfer (CTT)

*Environmentally Conscious Manufacturing* (*ECM*) *Program.* CTT is a private nonprofit organization that works primarily with Maine's metals and electronics industries to enhance their competitiveness through training, technology transfer, and technical assistance. ECM is one of CTT's focus areas; pollution prevention assessments, training, development literature, conferences, and seminars were all initiated under this program over the last 2 years. CTT will work with its target industries to educate companies on EMS and why they may or may not want to become certified to ISO 1400 1.

Addr: Mark Arienti, P.E., Field Engineer ECM Project Center for Technology Transfer 190 Riverside Street Portland, ME 04 103

Tel:	207-87 1-8254
Fax:	207-780-1547
E-mail:	marienti@mstf.org
URL:	http://www.ctt.org

### EMS Development for Industry -Electric Power Sector

The Central Maine Power Company and the Natsionalna Elektricheska Kompania of Bulgaria are working on a U.S. AID-funded effort to develop EMS for major power plants in Bulgaria and for the central electric utility system. Bulgaria has adopted environmental standards similar to those of western Europe and the United States, however, both the plant equipment and the management systems are dated in terms of being able to meet these standards. This initiative will help the management side of environmental businesses. One major power plant was selected for system development; at the discretion of the Natsionalna Elektricheska Kompania, the EMS techniques will be transferred to the rest of the system.

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Tel:	207-626-9749
Fax:	207-626-959
Addr:	Hristo Shwabsky
	Natsionalna Elektricheska Kompania
	Sofia, Bulgaria
Tel:	35929801968
Fax:	3592875826
E-mail:	nek.s.msp@mcr1.poptel.org.uk
Addr:	Dr. Robert Ichord, Jr. U.S. AID
	320 21st Street NW
	Washington, DC 20523
Tel:	202-647-6962
Fax:	202-647-8274
Гах;	202-047-0274

(Cross-listed with International Initiatives, chapter 6)

# MARYLAND

# Maryland Department of the Environment (MDE)

MDE conducts various ISO 14000 training programs for management and field personnel.

Mitch McCalmon
Maryland Department of the Environment
2500 Broening Highway
Baltimore, MD 2 I 224
4 1 O-63 I-4499
41 O-63 I-3896

# **ISO** 14000 Awareness for Maryland Manufacturers

Various agencies, public and private organizations in Maryland are making significant strides in identifying and providing ISO 14000 related information and awareness training throughout Maryland. The Environmental Engineering **Program** of the University of Maryland's Engineering Research Center (ERC) has begun an initiative to assist these efforts, identifying potentially interested participants, promoting the program, and assisting with presentation as requested. Primary efforts to date have been with the regional offices of the **ER's** Technology Extension Service (an affiliate of the Maryland NISTMEP), the Maryland Department of the Environment, and various local technology councils.

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	University of Maryland at Baltimore
	6 18 West Lombard Street, 1 st Floor
	Baltimore, MD 21201
Tel:	41 0-706-3233
Fax:	4 <b>1</b> o-706-3446
E-mail:	pg26@umail.umd.edu

# MICHIGAN

### Clean Corporate Citizen Program

This program gives businesses tangible incentives and benefits, such as faster permits, expanded construction and operational waivers, and plantwide applicable limits for air permits. Such benefits are attainable by meeting three criteria: 1) a demonstrated commitment to reduce waste through a pollution prevention program; 2) consistent compliance with all environmental requirements and no outstanding unresolved violations; and 3) a strong and effective EMS such as ISO 14001.

Addr:	Robert Basch, Chief
	Technical Assistance Section,
	Environmental Assistance Division
	Department of Environmental Quality
	P.O. Box 30457
	Lansing, MI 48909-7957
Tel:	517-335-7161
Fax:	517-373-3675
E-mail:	baschr@deq.state.mi.us

# MINNESOTA

### Office of Attorney General

*EMS Training.* The initiative involves **two** projects designed to improve EMS training. The first project involves a series of ten seminars on various aspects of environmental management including ISO 14000; the primary audience is larger businesses. The second project focuses on smaller businesses and will include five separate training sessions that incorporate environmental management elements into small business manufacturing excellence programs.

**Banking/Insurance** Initiative. This is an effort to identify the risk reduction and competitiveness advantages of good EMS and to inform bankers, insurers, **and** investors of these advantages. ISO 14000 certification and implementation could conceivably be used as a tool in measuring likely improved performance.

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<b>Tel:</b>	6 12-296-6597
Fax:	612-297-4139
E-mail:	lee.paddock@state.mn.us

# MISSOURI

### **ISO 14000 Cooperation Project**

This project supports research and educational activities within Missouri state government and with nongovernmental groups, including a joint relationship with the National Center for Environmental and Information Technology in St. Louis.

Addr:	Steve Mahfood
	Missouri Environmental Improvement and
	Energy Resources Authority
	P.O. Box 744
	325 Jefferson
	Jefferson City, MO 65 10 1
Tel:	573-75 1-49 19
Fax:	573-635-3486

# NEBRASKA

### Department of Environmental Quality (NDEQ)

Quality Assurance Implementation for Technical Policy and Independent Technical Oversight of Low Level Radioactive Wastes Application. NDEQ has the regulatory oversight and licensing authority, in conjunction with the Nebraska Health and Human Services (HHS), for licensing commercial low level waste disposal under 1 OXFR Part 6 1 in the state of Nebraska. NDEQ was charged with license review and independent technical assessment under NDEQ title 132 and NDOH Title 180. NDEQ developed a comprehensive quality assurance program using NUREG 1293/NUREG 1383 and NOA-1. The program incorporates requirements to address NRC Reg. Guide 415. Over a seven year period, the quality assurance implementation has been successfully implemented to over 200 personnel and covers all elements of technical review and oversight process. NDEQ has successfully implemented a "graded approach" to audits and surveillance that had never been implemented to this level for license review. It is unique for government oversight for state regulatory license review.

Addr:	Jay D. Ringenberg, LLRW Program
	Manager
	Nebraska Department of Environmental
	Quality
	P.O. Box 98922
	1200 N Street, Suite 400, The Atrium
	Lincoln, NE 68509-8922
Tel:	402-47 1-3372
Fax:	402-47 1-2909

### N E W **HAMPSHIRE**

### New Hampshire Pollution Prevention Program (NHPPP)

This nonregulatory pollution prevention program offers technical assistance services such as conferences and workshops, information requests, **onsite** assistance, pollution prevention information clearinghouse, internships, educational curricula, pollution prevention regulatory integration, and strategic partnerships.

Addr:	Vincent R. Pereili, NHPPP Manager
	New Hampshire Department of
	Environmental Services Pollution
	Prevention Program
	6 Hazen Drive
	Concord, NH 0330 1-6509
Tel:	603-271-2902
Fax:	603-27 <b>1-2456</b>
E-mail:	perelli@deswmdpl.mv.com

### NEW MEXICO

# Green Zia Environmental Excellence Program

The Green Zia program will recognize businesses, institutions, and governmental entities that have met specific criteria for achieving environmental excellence: 1) long-term compliance with all environmental regulations and development of a pollution prevention plan; 2) achievement of specified pollution prevention goals outlined in the plan; and 3) achievement of additional goals and mentorship in pollution prevention technologies for other businesses, institutions or governmental entities. The criteria for receiving recognition will be developed with input from regulators and industry representatives, and will include ISO 14000 conformance. The program should be implemented in mid- 1997.

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	Forestry and Resources Conservation
	Division
	Energy, Minerals, and Natural Resources
	Department
	P.O. Box 1948
	Santa Fe, NM 87504- 1948
Tel:	505-827-7474
Fax:	505-827-3903
E-mail:	jkowalski@emnrdsf.state.nm.us

# NEW YORK

### **ISO** 14000 Regulatory Integration Pilot Program

The Department of Environmental Conservation is developing two pilot projects with one **small** business and one large business to explore how ISO 14000 certification can be incorporated into regulatory oversight programs.

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	NYSDEC
	50 Wolf Road
	Albany, NY 12233-80 10
Tel:	<b>5</b> 18-457-2553
Fax:	<b>5</b> 18-457-2570

# NORTH CAROLINA

### The North Carolina Department of Environment, Health and Natural Resources

*Environmental Management Systems.* The North Carolina Department of Environment, Health and Natural Resources has formed a Workgroup to look at the use of EMS. Specifically, the group will be involved in pilot projects, internal training, gaining support of external groups, and policy development.

Addr:	Ravila Gupta
	North Carolina Department of
	Environment, Health and Natural
	Resources
	P.O. Box 29569
	Raleigh, NC 27626
Tel:	9 19-7 15-6507
Fax:	919-715-6794
E-mail:	ravila_gupta@owr.ehnr.state.nc.us

**ISO 14000 Workgroup for the National P2 Roundtable. The** first official meeting of this group was held in November 1996 as part of the National Pollution Prevention (P2) Roundtable's regular Workgroup meetings. Some example issues addressed were: How can P2 mesh with the standard? Will P2 be included in the auditor training and if so, how? What is the role of technical assistance personnel? Can small- and medium-sized manufacturers benefit from ISO 14000 and what are some of their implementation. issues? Will the standard lead to source reduction? This Workgroup will generate and maintain an ISO 14000 e-mail list.

Addr:	<b>Ravila Gupta</b> P.O. <b>Box 29569</b> Raleigh, NC 27626
Tel:	919-715-6507
Fax:	9 19-7 15-6794
E-mail:	ravila_gupta@owr.ehnr.state.nc.us
Addr:	Krista Johnsen Leuteritz NIST/MEP Building 30 1, Room C-1 00 Gaithersburg, MD 20899
Tel:	301-975-5104
Fax:	301-926-3787
E-mail:	kristin.johnsen@nist.gov
URL:	http://www.mep.nist.gov/

# NORTH DAKOTA

### Wetland Conservation Strategy

This multifunctional program includes a variety of incentive programs and demonstrations to encourage restriction and preservation of the state's substantial wetland resources.

> Lee Klapprodt North Dakota State Water Commission 900 East Bird Bismarck, ND 58501

Addr:

Tel:	701-328-2750
Fax:	701-328-3696
E-mail:	lklap@water.swc.state.nd.us
URL:	http://water.swc.state.nd.us

### OHIO

### **ISO** 14000 Information Gathering

The Ohio Office of Pollution Prevention is presently gathering information about the ISO 14000 series of voluntary standards.

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	Ohio EPA
	Office of Pollution Prevention
	P.O. Box 1049
	Columbus, OH 432 16- 1049
Tel:	<b>6</b> 14-644-28 13
Fax:	<b>6</b> 14-726- <b>1245</b>
E-mail:	andrea_futrell@central.epa.ohio.gov
URL:	http://www.epa.ohio.gov/opp/oppmain.html

# **OKLAHOMA**

### Department of Environmental Quality

The Pollution Prevention Program provides technical assistance to business and industry across the state of Oklahoma. It also houses a clearinghouse of up-to-date information on pollution prevention advances in various **industries**, reference materials, and journals. ISO 14000 activities consist of educating program members about the standards.

Addr:	Leisa Smith
	Oklahoma Department of Environmental
	Quality
	1000 NE 10
	Oklahoma City, OK 73117-1212
Tel:	<b>40527</b> 1-1400 or 800-869-1400
Fax:	405-271-1317

### OREGON

### Environmental Action Agreement Project

The Department of Environmental Quality's Pollution Prevention Core Committee is developing the framework of a program that will provide incentives for companies that regulatory demonstrate environmental performance beyond that required by law. Details of how companies qualify for participation and what types of rewards will be offered are still being determined. In order to qualify to be part of the Environmental Action Agreement Project, participants must have 1) an EMS in place that assures compliance with mandated environmental requirements, 2) some supplemental activities that demonstrate protection of the environment beyond that required by law, and 3) some mechanism for public communication about the facility's environmental performance.

Possible rewards include both a recognition program and some regulatory relief, such as expedited permit processing, reduced monitoring and reporting frequency, and enforcement discretion. A Workgroup will convene to develop these ideas and develop recommendations for turning pilot efforts into a full-scale incentive program.

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Tel:	503-229-5585
Fax:	503-229-6945
E-mail:	holly.schroeder@state.or.us
URL:	http://www.deq.state.or.us
Addr:	Marianne Fitzgerald, Coordinator DEQ Pollution Prevention 81 ISW Sixth Avenue Portland, OR 97204
Addr: Tel:	DEQ Pollution Prevention 81 1SW Sixth Avenue
	DEQ Pollution Prevention 81 1 SW Sixth Avenue Portland, OR 97204
Tel:	DEQ Pollution Prevention 81 1SW Sixth Avenue Portland, OR 97204 503-229-5946

## PENNSYLVANIA

### Strategic Environmental Management: Beyond Compliance

Strategic Environmental Management is a regulatory approach that incorporates ISO 14001 environmental accounting, full life-cycle assessment, and performance measurements into a pollution prevention approach to environmental management.

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	Department of
	Environmental Management
	Rachel Carson State Office Building
	P.O. Box 8464
	Harrisburg, PA 17 105-8464
Tel:	<b>7</b> 17-787-7060
Fax:	7 17-787-9378
E-mail:	barton.marylou@al.dep.state.pa.us
URL:	http://www/dep.state.pa.us

### Market-Based Audits of EMS: Implementing **ISO** 14000

Those conducting the project are studying four interrelated hypotheses concerning ISO 14000:1) ISO 14000 will improve public knowledge and reduce acceptability of industrial activities with environmental impacts; 2) ISO 14000 will improve internal management capabilities and reduce compliance costs for companies over other environmental management alternatives; 3) ISO 14000 will improve risk management practices and will lead to better relations with insurers and a risk managers and to lower premiums for certified companies; and 4) ISO 14000 will lead to decreased transaction costs of regulation, both at the state and federal level. A series of pilot studies in Wisconsin and Pennsylvania are planned to test these hypotheses.

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	Wharton Risk Management and Decision
	Processes Center
	University of Pennsylvania/Wharton
	School
	1325 Steinberg-Dietrich Hall
	3620 Locust Walk
	Philadelphia, PA 19104-6366
	3620 Locust Walk

#### Tel: 215-898-5688

Fax:	215-573-2130
E-mail:	kleindorfer@wharton.upe

E-mil: kleindorfer@wharton.upenn.edu URL: http://opim.wharton.upenn.edu/risk/

### Pennsylvania Environmental Council

The Pennsylvania Environmental Council is a statewide education, advocacy, and policy nonprofit organization that is promoting discussion of ISO 14000 in Pennsylvania through several mechanisms, including publication of related articles in a quarterly newsletter and hosting discussion groups with representatives of government, business, industry, and environmental interests.

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	12 I I Chestnut Street, Suite 900
	Philadelphia, PA 19107
Tel:	<b>2</b> 15-563-0250
Fax:	2 15-563-0528
E-mail.	pecphila@libertynet.org
URL:	http://www.libertynet.org/~pecphila

# TENNESSEE

### Department of Environment and Conservation (TDEC)

TDEC is following the development of the **IS0** 14000 standards and potential uses. In addition, TDEC is participating, as an Environmental Council of States (ECOS) representative, in EPA's IS0 14000/EMS Task Group.

Addr:	David L. Harbin, Assistant General
	Counsel
	Department of Environment and
	Conservation
	Office of General Counsel
	L & C Tower, 20th Floor
	401 Church Street
	Nashville, TN 37243- 1548
Tel:	615-532-0144
Fox:	615-532-0145
E-mail:	dharbin@mail.state.tn.us

# TEXAS

# Office of Pollution Prevention and Recycling

The Office currently oversees multiple projects analyzing EMS and its application. These projects include analyzing potential inspection protocols to incorporate EMS, analyzing the relationship between EMS and environmental economic performance in industrial facilities, and incorporating EMS into voluntary recognition/incentive programs.

Addr:	Andrew Neblett, Director
	Office of Pollution Prevention and
	Recycling
	Texas Natural Resource Conservation
	Commission
	P.O. Box 13087 (MC 112)
	Austin, TX 787 1 I-3807
Tel:	<b>5</b> 12-239-3 166
Fax:	5 12-239-3 <b>165</b>
E-mail:	aneblett@tnrcc.state.tx.us

# UTAH

### Department of Environmental Quality (DEQ)

Utah's pollution prevention program serves as the contact point for promotion and dissemination of information related to ISO 14000. The pollution prevention program will notify other DEQ divisions and industrial groups and also serve as a contact **for** communicating with these groups regarding ISO 14000.

Addr:	Sonja F. Wallace Utah Department of Environmental Quality 168 North 1950 West Salt Lake City, UT 84114-4810
Tel: Fax:	801-536-4477 801-536-0061
E-mail:	eqoas.swallace@state.ut.us

# VERMONT

### Vermont Manufacturing Extension Center (VMEC)

VMEC is a NIST-MEP center serving the technical assistance needs of Vermont's manufacturers.

Addr:	Muriel Durgin, Director
	Vermont Manufacturing Extension Center
	P.O. Box 500
	Randolph Center, VT 0506 I-0500
Tel:	802-728-1312; in VT 800-MEP-4MFG
Fax:	802-728-1456
E-mail:	vmec@night.vtc.vsc.edu
URL:	http://www.vmec.org

# VIRGINIA

### Department of Environmental Quality

Virginia is tracking and investigating ISO 14000 activities of other interested states.

Addr:	T. March Bell
	Department of Environmental Quality
	P.O. Box 10009
	Richmond, VA 23240-0009
Tel:	804-698-44 17
Fax:	804-698-4019

### WASHINGTON

### Department of Ecology

*Compliance Assurance and Environmental Audits.* Several "Beyond Compliance" related initiatives that relate to ISO 14000 exist, including an EPA ISO 14000 task group, an environmental leadership program, and a performance based **permits** system.

Addr:	Greg Sorlie, Program Manager
	Department of Ecology
	P.O. Box 47600
	Olympia, WA 98504-7600
Tel:	360-407-6977
Fax:	360-407-6902
E-mail:	gsor461@ecy.wa.gov

Addr:	John Williams, Staff
	Department of Ecology
	P.O. Box 47600
	Olympia, WA 98504-7600
Tel:	360-407-6968
Fax:	360- 407- 6902
E-mail:	jowi461@ecy.wa.gov

**ISO 14000 Leadership Project.** This project is sponsored by EPA Region 10 and the Washington State Department of Ecology, working in conjunction with the International Standards Initiative, to clarify the environmental, economic, and regulatory benefits of ISO 14001 certification. The project comprises four tasks: 1) focus group discussions, 2) discussion forum, 3) EMS analysis, and 4) final report.

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	Director for Pollution Prevention
	Department of Ecology
	P.O. Box 1202
	Olympia, WA 98504
Tel:	360-407-6086
Fax:	360-407-6989
E-mail:	teat461 @ecy.wa.gov
Addr:	John Palmer, Pollution Prevention
	Manager
	U.S. EPA Region 10
	P.O. Box 1202
	1200 6th Avenue (0 <b>1</b> -085)
	Seattle, WA 98 10 1
Tel:	206-553-6521
E-mail:	palmer.john@epamail.epa.gov
Addr:	K.C. Ayers, Executive Director
	International Standards Initiative
	P.O. Box 1202
	Issaquah, WA 98027-I 202
Tel:	206-392-76 10
Fax:	206-392-7630
E-mail:	kcayers@isi-standards.org
URL:	http://www.isi-standards.org

# WISCONSIN

### Wisconsin **ISO** 14000 Working Group

This group is composed of members of the public and private sector with extensive knowledge of IS0 14000. A number of interim reports have been developed by the group and will form the basis for a pilot study. The pilot effort of the Wharton/LaFollette project will be the same pilot effort as the Wisconsin ISO 14000 Working Group project. Companies are expected to begin participating in 1997.

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	Wisconsin Department of Natural
	Resources
	<b>P.O.</b> Box 7921 MB/5
	Madison, WI 53707
Tel:	608-267-2761
Fax:	608-267-523 1
E-mail:	eggert@dnr.state.wi.us

# Wharton/LaFollette Joint Research Effort

The states of Wisconsin and Pennsylvania are working together with the Wharton Business School and the LaFollette Institute of Public Affairs to identify cost, benefits, and public policy issues of ISO 14000. The research will be supplemented by a pilot study, which will test out assumptions and theories.

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	Wisconsin Department of Natural
	Resources
	P.O. Box 792 1 MB/5
	Madison, WI 53707
Tel:	608-267-523 1
Fax:	608-267-523 <b>1</b>
E-mail:	smollj@dnr.state.wi.us
Addr:	Paul R. Kleindorfer
	Wharton Risk Management and Decision
	Processes Center
	University of Pennsylvaniflharton
	School
	1325 Steinberg-Dietrich Hall
	3620 Locust Walk
	Philadelphia, PA 19104-6366
Tel:	2 15-898-5830
Fax:	215-573-2130
E-mail:	
URL:	http://opim.wharton.upenn.edu/risk/

# 5

# NONPROFIT INITIATIVES

The nonprofit organizations in this chapter are divided into three sections. An *industry* section lists organizations that promote communication about ISO 14000 in their respective industry sectors. The section on *nongovernmental* initiatives includes nonprofit organizations representing stakeholders with an interest in improved environmental performance, as well as nonprofit organizations that directly provide ISO 14000 related services. Initiatives based at *academic* institutions include training services, consulting services and the application of the ISO 14000 standards to the academic institutions themselves.

- **1. Industry Associations and Networks** 
  - 2. Nongovernmental Organizations
    - 3. Academic Organizations

# INDUSTRY ASSOCIATIONS

### Air & Waste Management Association (AWMA) Intercommittee Task Force on ISO 14000

AWMA's Intercommittee Task Force on ISO 14000 will cosponsor an international forum, in conjunction with the AWMA 1997 Annual Conference, to be held in June 1997. The forum, entitled "ISO 14000 Environmental Management Systems: Where we've been and where we're going," will be held in Toronto, Canada.

Addr:	<b>George D. Greenly, Jr.,</b> CCM, QEP Battelle-Pantex
	6900 I-40 West, Suite 130
	Amarillo, TX 79 106
Tel:	806-353-4198
Fax:	806-353-4628
E-mail:	ggreenly@pantex.com
URL:	http://www.awma.org

### American Petroleum Institute

Strategies for Today's Environmental Partner ship (STEP). STEP represents the petroleum industry's collective initiatives to improve petroleum industry environmental, health, and safety (EHS) performance, document and communicate its achievements, and improve the public's understanding of its performance. STEP provides a unifying framework, through the American Petroleum Institute (API), that the industry can use to improve EHS performance in a flexible, yet systematic manner; to share best practices; to enhance operating efficiencies and reduce costs; and to document performance improvements.

Many companies, working collectively and individually, have successfully used management systems approaches to accomplish cost-effective improvements on an ongoing basis. Individual company and industry EHS performance and efficiency are expected to improve as a result of successful implementation of EHS management systems, an expectation that several API members with EHS management systems have affirmed. Based on these successes, API promotes the use of flexible EHS management systems, which provide a means for integrating EHS management into everyday business operations, regardless of company size. API is developing a template for an EHS management system that can be used by its members as a guide for their own systems.

Addr:	Walter C. Retzsch American Petroleum Institute 1220 L Street, NW
	Washington, DC 20005
Tel:	202-682-8598
Fax:	202-682-8579
E-mail:	step@api.org
URL:	http://www.api.org/step/

# American Society for Quality Control (ASQC)

*Energy and Environmental Division (EED).* EED produced the first American national standard on quality assurance for environmental programs, ANSI/ASQC E4-1994. Members are active on several IS0 Technical Committees, including TC 176 and TC 207. EED has been an active participant in the development of the ISO 14000 series of EMS.

Addr:	John Dew, Vice-Chair
	Administrative Services
	Lockheed Martin Utilities Services
	P.O. Box 1410
	Paducah, KY 42001
Tel:	502-441-6759
Fax:	502-441-6103
E-mail:	dewjr@ornl.gov

# Electronic Industries Association (EIA)

EIA has organized a variety of educational pro grams to provide information to members concerning strategic and practical considerations applicable to ISO 14000. These education programs include presentations, seminars, and documents.

### Addr: David Isaacs

Electronic Industries Association 2500 Wilson Boulevard Arlington, VA 2220 I-3834 
 Tel:
 703-907-7576

 Fax:
 703-907-7501

 E-mail:
 disaacs@eia.org

 URL:
 www.eia.org

### The Associated Industries of Massachusetts/Massachusetts Manufacturing Partnership **ISO** 14000 Collaborative

The Associated Industries of Massachusetts is working with the Massachusetts Manufacturing Partnership to provide companies with a comprehensive program designed to prepare for ISO 14000 registration. The ISO 14000 Collaborative is an innovative program that provides small manufacturers with the opportunity to prepare for registration at an affordable price. The program is led by world class corporate education professionals experienced in ISO 14000 training who follow a proven method of interactive instruction over a period of 12 to 14 months.

Addr:	Beverly Cadorette
	Massachusetts Manufacturing Partnership
	Corporation for Business, Work, and
	Learning
	101 Summer Street
	Boston, MA 02 110
Tel:	6 <b>17-292-5</b> 100, ext. 285
Fax:	6 17-292-5 105
E-mail	<pre>bcadorette@mmp.bssc.org</pre>
URL:	http://www.mmpmfg.org

### National Association of Environmental Professionals (NAEP)

**ISO 14000 Working Group.** The NAEP ISO 14000 Working Group is composed of NAEP members from government, industry, the financial community, and the consulting field with an inter est in the development and implementation of ISO 14000 standards. The group's mission is threefold: 1) to participate in the development and implementation of the ISO 14000 standards; 2) to promote and facilitate communication among environmental professionals on the impacts of these standards; and 3) to promote the integration of NAEP ethics, principles, interests, and practices into the standards.

Addr:	Phil Stapleton, Chair
	Glover-Stapleton Associates
	NAEP
	1627 K Street, NW
	Washington, DC 20006
Tel:	202-33 <b>1-9659</b>
Fax:	202-296-6270
URL:	http://enfo.com/NAEP

# Industrial Designers Society of America (IDSA)

*Environmental Responsibility Section.* IDSA's Environmental Responsibility Section is dedicated to the exploration of environmentally responsible design solutions and product management systems. The tools being explored include Life Cycle Modeling, Design for the Environment, Integrating Design with the EMS of ISO 14000, and other strategies that may move society toward a sustain able future.

Addr:	John Paul Kusz, IDSA
	30 I South Home Avenue
	Park Ridge, Illinois 60068
Tel:	847-692-9590
Fax:	847-692-9590
E-mail	l:jpkusz@aol.com

### Northeast Business Environmental Network (NBEN)

The Forum for Best Management Practices. The forum will serve as a network providing examples of best practices for pollution prevention and compliance management. Examples include the EPA self-policing guidelines and ISO 1400 1. Participants exchange their best practice examples based on a summary model consisting of ten basic features; the best of these examples will be summarized and annotated in a manual to be published by NBEN and posted to NBEN's Web page. NBEN fosters sustainable development through the exchange of practical information in regular meetings, seminars, and over the Internet. Raytheon hosted a conference discussing the forum on November 15, 1996, in Lexington, MA.

### Addr: Jennifer Hill

NBEN 56 Island Street Lawrence. MA 01842

Tel:	508-557-5475
Fax:	508-557-5493
E-mail:	execdirector@nben.org
URL:	http://www.nben.org.

# National Center for Manufacturing Sciences (NCMS)

NCMS is a membership organization best de scribed as a consortium of North American manufacturing organizations whose main activity is to put together and manage cooperative research projects among its member companies.

Addr:	Paul Chalmer
	NCMS
	3025 Boardwalk Drive
	Ann Arbor, MI 48 108-3266
Tel:	313-995-4911
Fax:	<b>313-995-</b> 1150
E-mail:	paul.chalmer@ncms.org
URL:	http://www.ncms.org

### NON-GOVERNMENTAL ORGANIZATIONS

# Alliance for Environmental Innovation

The Alliance for Environmental Innovation is a project of the Environmental Defense Fund and the Pew charitable trusts. The alliance will develop projects that 1) implement measurable actions to reduce waste, prevent pollution, and conserve resources while enhancing business performance; and 2) create actionable models and methodologies for other businesses to adopt.

Each project will identify environmental issues, analyze solutions in the context of functional and economic needs, refine new methodologies for reducing environmental impacts, and develop implementation options.

### Addr: Ralph Earle

Environmental Defense Fund 6 North Market Building Fanueil Hall Marketplace Boston, MA 02 109

Tel:	617-723-2996
Fax:	617-723-2999
E-mail:	ralph@ef.org

### American Institute for Pollution Prevention (AIPP)

AIPP is an educational, not-for-profit organization that works with trade associations and professional societies to promote pollution prevention within industry and throughout society. Many of AIPP's initiatives involve EMS. AIPP's annual meeting includes updates on ISO 14000 and discussions regarding if and how companies are proceeding with implementation.

### Addr: Julie Fero

American Institute for Pollution Prevention 1616 P Street NW Suite 100 Washington, DC 20036 Tel: 202-797-6567 Fax: 202-797-6559 E-mil: cd001001@mindspring.com URL: http://es.inel.gov/aipp/

### Coalition for Environmentally Responsible Economies (CERES)

CERES promotes responsible corporate activity for a safe and sustainable future for our planet. The coalition engages environmental organizations, the investment community, and corporations in a dialogue about environmental performance, both to forge a **new** and meaningful dialogue with corporations about the protection of the planet and to establish a well-informed public that chooses where to invest its capital based on environmental, not just economic, performance. CERES is promoting the creation of a widely-accepted mechanism for corporate self-governance that will maintain business practices consistent with the idea that economic vitality and environmental responsibility are compatible.

Addr:	<b>Randy Rice</b>
	CERES
	7 1 I Atlantic Avenue
	Boston, MA 02111
Tel:	617-451-0927
Fax:	617-482-2028
E-mail:	ceres@igc.apc.org
URL:	http://www.ceres.org

# Community Nutrition Institute (CNI)

Joint Policy Dialogue on Trade and the Environment. CNI is currently hosting a series of facilitated policy dialogues between the environmental and business communities in an effort to promote consensus-based trade and environmental policy. Dialogue participants include the U.S. Council for International Business, DuPont, National Association of Manufacturing, U.S. Chamber of Commerce, Chemical Manufacturing Association, and other concerned business organizations. Environmental nongovernment organizations include the Sierra Club, National Wildlife Federation, World Wildlife Fund, Center for International Environmental Law, National Resources Defense Council, and others.

CNI's trade and environment team is currently researching and drafting a discussion document addressing ISO 14000 and the relevant trade and environment issues related to this topic. The paper will serve as a basis for a future dialogue workshop, and copies will be made available upon request to interested parties outside the dialogue group

#### Addr: Deborah Siefertt, Jake Caldwell, or David Wirth

Community Nutrition Institute 910 17th Street, NW Washington, DC 20006 Tel: 202-776-0595 Fox: 202-776-0599 E-mil: cnitrade@ige.apc.org

### The Global Environmental Management Initiative (GEMI)

GEM1 is committed to Environmental Health and Safety excellence throughout the business community. GEMI's 21 member companies represent a cross section of industry with over a million employees and combined annual revenues exceeding \$400 billion. Established in 1990, GEM1 is a 501 (c)(3) nonorganization. GEM1 produced an ISO 14001 EMS self-assessment program in March 1996.

Addr: **Tammy Marshall**, Operations Manager 1090 Vermont Avenue, NW Third Floor Washington. DC 20005

```
      Tel:
      202-296-7449

      Fax:
      202-296-7442

      E-mail:gemi@worldweb.net
      URL:

      http://www.gemi.org
      http://www.gemi.org
```

### The Good Neighbor Project for Sustainable Industries

This project helps to shape stakeholder participation disclosure, input, and participation by neighbors and workers by including these elements in ISO 14000 environmental management processes.

Addr:	Sanford Lewis, Director	
	P.O. Box 79225	
	Waverly, MA 02 I79	
Tel:	617-354-1030	
Fax:	617-492-1635	
E-mail: sanlewis@igc.apc.org		
URL:	http://www.envirolink.org/orgs/gnp	

### Green Seal Environmental Partners Program

The program provides "green" buying assistance to businesses concerned about the environmental impacts of their purchases. Partners receive comprehensive, expert advice, including lists of products recommended on the basis of their environmental impact, product performance, and packaging. Members include large and small businesses, universities, government agencies and nonprofit organizations; participants number over 1000.

### Addr: Michael Shor

	Green Seal Environmental Partners Program	
1730 Rhode Island Avenue, NW, Suite 10		
	Washington, DC 20036-3 101	
Tel:	202-33 1-7337	
Fax:	202-33 1-7533	
E-mail:	greenseal@aol.com	

# ANSI/GETF ISO 14000 Integrated Solutions (IIS)

The American National Standards Institute (ANSI) and the Global Environment & Technology Foundation (GETF) developed this program to serve as the primary disseminator and facilitator of ISO 14000 information in the United States. **IIS** is composed of four services: training (currently being done through a national network of community colleges), ISO 14000 conferencing, publications, and an on-line information service, **IIS** ON-Line. Each service promotes awareness, competence, confidence, and skills for ISO 14000 implementation in both public and private sectors.

Addr:	Mary Clare Lynch ANSI 11 West 42nd Street New York, NY 10036
Tel:	2 12-642-4956
	212-598-0023
E-mail:	mlynch@ansi.org
URL:	http://www.ansi.org
Addr:	Jacqui Keller GETF 70 10 Little River Turnpike, Suite 2\300 Annandale, VA 22302
Tel:	703-750-6401
Fax:	703-750-6506
URL:	http://www.iso14000.org

### GETF

GETF is a foundation committed to facilitating the cooperative integration of enterprise, technology, and the environment into sustainable systems in the United States and abroad. GETF facilitates strategic thinking, supports environmental policy development, builds consensus and knowledge sharing, and encourages partnership building and collaboration; GETF also provides training and education about ISO 14000 standards.

Addr:	<b>Steve Wassersug,</b> President GETF 7010 Little River Turnpike Suite 300	
	Annandale, VA 22302	
Tel:	703-750-6401	
Fax:	703-750-6506	
E-mail:	steve.wassersug@gnet.org	
URL:	http://www.iso14000.org	
Addr:	Lynne Rasmussen, Director of Legal Affairs, GETF	

GETF 70 10 Little River Turnpike Suite 300 Annandale. VA 22302

Tel:	703-750-6401
Fax:	703-750-6506
E-mail:	lynne.rasmussen@gnet.org
URL:	http://www.iso14000.org

### Green Mountain Institute for Environmental Democracy (GMIED)

GMIED provides assistance to regional, state, and local governments; comparative risk projects; and place-based initiatives in the development of environmental indicators and program measures. GMTED also serves as a clearinghouse for environmental indicator reports and activities and produces a bimonthly newsletter covering environmental management.

Addr:	James R. Bernard
	GMIED
	104 East State Street
	Montpelier, VT 05602
Tel:	802-229-6077
Fax:	802-229-6076
E-mail:	jbernard@gmied.org

### ISO 14000 Legal Issues Forum

The ISO 14000 Legal Issues Forum was established by the U.S. Technical Advisory Group in September 1995 to provide a vehicle of discussion of legal issues arising in the implementation of the ISO 14000 series of standards. Under the co- chairmanship of David J. Freeman of Battle Fowler LLP and **Ira** R. Feldman of GT Strategies and Solutions, the Forum has grown to a membership of over 200 individuals and organizations. Its members include both governmental officials and representatives of **nonprofit groups**.

The forum meets bimonthly, with each meeting devoted to addressing a specific topic of interest to its membership. A participation fee of \$75 entitles members to attend bimonthly meetings and to receive detailed reports of the proceedings.

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	Battle Fowler LLP
	75 East 55th Street
	New York, NY 10022
Tel:	21 2-856-7 126
Fax:	212-856-7820
E-mail:	dfreeman@battlefowler.com

Addr:	Ira Feldman
	GT Strategies and Solutions
	1300 Connecticut Avenue
	Washington, DC 20036
Tel:	202-530-9770
Fax:	202-530-9772
E-mail:	I@erols.com

### Management Institute for Environment and Business (MEB)

Industrial Products, Inc.: Measuring Environmental Performance (Case Study). In 1993, Industrial Products, Inc., was a highly diversified privately-held manufacturing company with two business objectives: increase return on equity and decrease environmental impact. This case examines management's efforts to design and implement a management system for measuring the impact of its operations on the environment. The student gains an understanding of the system, and is asked to evaluate its effectiveness. The industrial products management system illuminates the ISO 14000 series standards. A teaching note is available.

#### Addr: Rebekah Paulson

Management Institute for Environment and Business 1709 New York Avenue, NW Washington, DC 20006 Tel: 202-434-1980 Fax: 202-737-1510 E-mail: briann@wri.org URL: http://www.wri.org/wri/meb

# **ISO** 14000 Workgroup for the National P2 Roundtable

The first official meeting of this group was held in November 1996 as part of the National Pollution Prevention (P2) Roundtable's regular Workgroup meetings. Some example issues addressed were: How can P2 mesh with the standard? Will P2 be included in the auditor training and if so, how? What is the role of technical assistance personnel? Can small- and medium-sized manufacturers benefit from ISO 14000 and what are some of their implementation issues? Will the standard lead to source reduction? This Workgroup will generate and maintain an ISO 14000 e-mail list.

#### Addr: **Ravila** Gupta P.O. Box 29569 Raleigh, NC 27626 919-715-6507 Tel: 919-7 15-6794 Fax: ravila\_gupta@owr.ehnr.state.nc.us E-mail: Addr: Krista Johnsen Leuteritz NIST/MEP C = 100201 D D...:1.1:..

Tel:	301-975-5104	
Fax:	301-926-3787	
E-mail:	kristin.johnsen@nist.gov	
URL:	http://www.mep.nist.gov/	

# New England Environmental Network

Nothing To Waste Initiative (NTW). The NTW Initiative is a pilot environmental justice and pollution prevention program designed to provide and link necessary economic and environmental resources to small businesses in low income communities of color. NTW infuses pollution prevention tools and continuous improvement techniques into peer lending groups of four to ten small business owners who are participating in the business education and loan program of Working Capital, a nonprofit community development finance agency. With initial funding from EPA, the NTW pilot has functioned as a unique collaboration between local community development corporations (Grove Hall CDC in Roxbury, MA, and Green Island CDC in Worcester, MA); Working Capital, Cambridge Environmental, Inc.; and the New England Environmental Network at Tufts University.

### Addr: Marcy Goldstein-Gelb,

Massachusetts Director, Working Capital
New England Environmental Network
99 Bishop Allen Drive
Cambridge, MA 02 139

**Tel:** 6 17-576-8620

*Fax:* 617-576-8623

E-mail:wcapmgelb@aol.com

### Addr: Rona Julien

	U.S. EPA Region 1
Tel:	6 17-565-9454

#### CHAPTER 5: NOT-FOR-PROFIT INITIATIVES

### The Pacific Institute

The Pacific Institute for Studies in Development, Environment and Security is an independent, nonprofit center conducting research and policy analysis in the areas of environment, sustainable development, and international security. The Institute focuses on the interrelatedness of many of the problems facing our planet and seeks comprehensive solutions to these problems.

Addr: Peter Gleick, President Pacific Institute 1204 Preservation Park Way Oakland, CA 946 12 E-mail:pistaff@pacinst.org

### The Rainforest Alliance

The Smart Wood Program. Initiated in 1989, the program initially focused on tropical forests. Today, Smart Wood works in all forest types worldwide. The purpose of Smart Wood is to provide independent, objective evaluation of forest management practices, forest products, timber sources, and companies, enabling the public to identify products and practices that do not destroy forests. Through certification and use of the Smart Wood label the program provides a commercial incentive for forest managers to adopt sustainable forestry practices. Smart Wood certifies forest products that come from "sustainable" or "well managed" forests ("sources"); Smart Wood also certifies companies that process, manufacture, or sell products made from certified wood, through "chain of custody" certification.

Addr:	Richard Donovan, Director
	6.5 Bleecker Street
	New York, NY 10012-2420
Tel:	212-677-1900
Fax:	212-677-2187
E-mail	smartwood@ra.org
URL:	http://www.rainforest-alliance.org

### The Sierra Club

The Sierra Club is tracking the application of ISO 14000 to ensure that it is applied in a manner that will result in increased environmental protection and it reflects accurate information about how ISO I JOOO-rated firms are promoting a high standard of environmental performance.

Dan Seligman, Trade and Environment
Director
Sierra Club
408 C Street NW
Washington, DC 200 I6
202-675-2387
202-547-6009
dan.seligman@sierraclub.org
http://www.sierraclub.org
Jerry Speir, Director
Tulane Institute for Environmental Law
and Policy
Tulane Law School
New Orleans, LA 70118-5670
504-862-8829
504-862-8857
jspeir@law.tulane.edu
John Audley
<b>2247</b> Laeb
Political Science Department
Purdue University

West Lafayette, IN 47907

- Tel: 3 17-494-7599
- E-mail: audley@polsci.purdue.edu

### ACADEMIC

### **Brown University**

**Brown Is Green (BIG) Program.** BIG is an environmental education and advocacy program established to involve undergraduates in the research and analysis of environmental problems related to university operations and provide a model for active learning that can be replicated nationally. The students involved in this program develop skills in incorporating environmentally benign technology and methods into daily operations. They also devise and test methods for educating individuals within an organization on the environmental effects of their behavior.

Kurt Teichert, Environmental Coordinator
Brown University
Box 1943
Providence, RI 029 12- I 943

Tel: 40	1-863-	7837
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Fax: 401-863	-3503
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- E-mail:kurt\_teichert@brown.edu
- URL: http://www.brown.edu/departments/brown\_ is-green

### Georgia Institute of Technology, Economic Development Institute (EDI)

ED1 provides IS0 14000 information, training, and implementation assistance through EDI's Center for International Standards and Quality (CISQ). Companies can enroll in a customized implementation program that will help them successfully prepare for ISO 14000 registration, participate in the ISO 14000 discussion group (a forum of business representatives who meet periodically to share information and experiences related to ISO 14000), and access current ISO 14000 information through CISQ's Standards Information Service.

Addr:	Donna M. Ennis
	GeorgiaTech/CISQ/EDI
	1516th Street, Room 143
	Atlanta, GA 30332-0640
Tel:	404-894-0968
Fax:	404-894-1192
E-mail:	cisq.mail@edi.gatech.edu
URL:	http://www.edi.gatech.edu

# Montana State University Extension Service

*Montana Pollution Prevention Program.* This program provides pollution prevention technical assistance to small businesses (automotive, wood working, printers, hotels/motels, construction, dry-cleaning), schools, Native American tribes, local government, and agricultural operations.

Addr:	Dr. Michael P. Vogel
	Montana State University Extension Service
	109 Taylor Hall
	Bozeman, MT 597 17
Tel:	406-994-345 1
Fax:	406-994-54 17
E-mail	: acxmu@ trex.oscs.montana.edu
URL:	http://www.montana.edu/wated
	•

### University of Maryland

*Environmental Finance Center (EFC).* Part of the Coastal and Environmental Policy Program at the University of Maryland, EFC was created to train, provide assistance, and act in an advisory capacity to state and local governments on issues related to environmental finance. Among other activities. EFC advises local officials in forums for

frank discussions between local officials and finance experts about financing difficulties experienced by communities in meeting their environmental demands.

Addr:	Elizabeth Hickey
	EFC
	University of Maryland
	Coastal and Environmental Policy Program
	0112 Skinner Hall
	College Park, MD 20742
Tel:	301-405-6383
Fax:	301-314-9581
E-mail:	hickey@umbi.umd.edu
URL:	http://www.mdsg.umd.edu:80/mdsg/
	envifin/index.html

### Salt Lake Community College

*The Environmental Training Center.* The Environmental Training Center provides noncredit workshops in environmental health and safety subjects. This includes 1- and 2-day workshops on the ISO 14000 standard.

Addr:	Neal K. Ostler, Center Coordinator
	Millcreek Center
	152 I East 3900 South
	Salt Lake City, UT 84124
Tel:	80 I-957-4942
Fax:	80 I-957-3848
E-mail	:ostlerne@slcc.edu
URL:	http://www.slcc.edu/cce/hazwop.htm

### SUNY Buffalo

The Science and Engineering Library at SUNY Buffalo, in conjunction with other university libraries, is compiling a list of print and electronic resources related to the topic of Environment and Business, including resources for ISO 14000, Clean Products and Design, and Life Cycle Assessment. The resources are maintained on the Science and Engineering Library Web site under Internet Resources by Subject: Environment. Other fee-based information services are also available from the Science and Engineering Library upon inquiry.

Addr: Frederick W. Stoss, M.S., M.L.S., Associate Librarian Science and Engineering Library Capen Hall, Room 228-B SUNY Buffalo Buffalo. NY 14260-2200 
 Tel:
 716-645-2946 ext. 224

 Fax:
 716-645-3710

 E-mail:
 fstoss@acsu.buffalo.edu

 URL:
 http://wings.buffalo.edu/libraries/units/sel/

# Tulane Institute for Environmental Law and Policy

#### ISO 14000 From a Public Interest Perspective.

This initiative attempts to assess and respond to developments in ISO 14000 implementation from a nongovernmental and nonindustry perspective.

Addr:Jerry Speir, Director<br/>Tulane Institute for Environmental Law and<br/>Policy<br/>Tulane Law School<br/>New Orleans, LA 701 1 X-5670Tel:504-862-8829Fax:504-862-8857E-mail:jspeir@law.tulane.edu

### University of Wisconsin-Stout

*Economic Development Administration University Center (EDA-UC)*. The University of Wisconsin-stout's EDA-UC provides service **and assistance** in management system education, training, and outreach to regional businesses and **industry on the** implementation and operation of systems based on international standards.

Addr: **Dr. Wallace Carlson**, Professor Industrial Management University of Wisconsin-Stout Menomonie, WI 5475 I

**Tel:** 715-232-5162

Far: 7 15-232-1105

E-mail:carlsonw@uwstout.edu

Addr:	Nancy Jennejohn,
	EDA-UC Program Manager
	University of Wisconsin-Stout
	Menomonie, WI 5475 l
Tel:	<b>7</b> 15-232-5023
Fax:	715-232-1985
E-mail:	jennejohn@uwstout.edu

### Vanderbilt Center for Environmental Management Studies (VCEMS)

VCEMS was formed to promote and develop partnerships between industry, government, and academia to explore new environmental management practices and opportunities. VCEMS' most recent initiatives include incorporation of ISO 14000 principles into the established environmental management framework and to remove the "green wall" barriers to sound environmental management programs.

Addr:	Paige Macdonald, Program Director
	VCEMS, Vanderbilt University
	1207 18th Avenue South
	Nashville, TN 37212
Tel:	615-322-8004

**Fax:** 615-343-7408

E- mail:macdonald@uansv5.vanderbilt.edu

URL: http://www.vanderbilt.edu/vcems

# 6

# INTERNATIONAL INITIATIVES

The international listings in this chapter include multilateral organizations with initiatives that extend across national boundaries and a sampling of national initiatives based in other countries that may be useful both as information resources as well as models for programs in the United States.

1. Multilateral Organizations

2. Alphabetical Listings by Country

### MULTILATERAL ORGANIZATIONS

### Environmental Management Secretariat for Latin America and the Caribbean (LAC)

The purpose of the Environmental Management Secretariat in the LAC region is to facilitate the improvement of environmental management through the application of three interrelated instruments: research, horizontal cooperation, and information systems (largely Internet based) to support decisions by those engaged in policy formulation and implementation and in activities based on services or raw materials derived from renewable resources.

The secretariat is also developing a focused research program through competitive small research grants to address the key environmental management issues of the region.

Addr:	Alexis Ferrand
	Environmental Management Secretariat
	c/o CIIDIIDRC
	Casilla de Correo 6379
	Montevideo, Uruguay
Tel:	+598-2-922031/4-922037144
Fax:	+598-2-920223
E-mail:	aferrand@idrc.ca
URL:	http://www.chasque.apc.org/sema

### Commission for Environmental Cooperation (CEC)

CEC was created to address regional environmental concerns, help prevent potential trade and environmental conflicts, and promote the effective enforcement of environmental laws.

Current related activities of the CEC include a study of North American experiences with voluntary compliance, including ISO 14000 and an examination of the interface between ISO 14000 and enforcement and compliance policies and programs.

Addr:	Linda F. Duncan, Head
	Law & Enforcement Cooperation Program
	CEC
	393 Rue St. Jacques Bureau 200
	Montreal, Quebec, H2Y1N9
Tel:	514-350-4334
Fax:	5 14-350-4314
E-mail:	lduncan@ccemtl.org

URL: http://www.cec.org

### Organisation for Economic Cooperation and Development (OECD)

Sustainable Product Policies and Life Cycle Management. The objective of the project is to monitor initiatives and policies that favor the diffusion of life cycle approaches among economic factors. This entails following the work that ISO and other organizations are carrying out, and examining implications for the transfer of information in the marketplace (e.g., through ecolabelling initiatives and life cycle assessments), product performance standards, public purchasing of environmentally preferable goods and services, and extended producer responsibility.

Addr:	<b>Carlo Pesso</b> OECD 2 Rue Andre Pascal 75775 Paris France
Tel:	+33-1-45-24-1 6-82
Fax:	+33-1-45-24-78-76
<b>E-mail:</b> URL:	Carlo.PESSO@oecd.org http://www.oecd.org/env/divppc.htm
UND.	nup.//www.occu.org/env/urvppe.nun

### United Nations Conference on Trade and Development (UNCTAD)

*Training Program for Officials Interested in ISO in Developing Countries.* Many businesses operating in or trading with developing countries are not fully aware of the developments in ISO 14000. A training guide is being developed by a United Nations (UN) agency in Geneva, Switzerland (the UN Conference on Trade and Development), to provide information. Benchmark Environmental Consulting served as the consultant for the research and writing.

- Addr: Dr. John Cuddy, Coordinator Sustainable Development Program UNCTAD Rm. E9077 Palais des Nations CH-1211 Geneva10 Switzerland +4 122-907-0045 Fax:
- Dr. Harris Gleckman Addr: Benchmark Environmental Consulting 470 Forest Ave, Suite 302 Portland, ME 04 10 1 Tel: 207-775-907s
- 207-772-3539 Fax:
- E-mail: benchmark@interramp.com
- www.greenchannel.com and URL: http://194.177.160.204:80/standards /iso/14001/

### **United Nations Environmental** Program (UNEP)

UNEP Metaduta Directory. The UNEP Metadata Directory serves as a card catalogue of environmental information. It contains card entries (or metadata descriptions) of institutes and datasets and allows users to search for environmental information by institute name or dataset (title), contact person (author), theme, keyword, and location (subject), as well as other criteria.

Addr:	James McKenna, Program Officer
	UNEP
	P.O. Box 3052
	Nairobi, Kenya
Tel:	+254-2-623899
Fax:	+254-2-624315
E-mail:	mckennaj@unep.no
URL:	http://www.grid.unep.no
	-

### United Nations Industrial **Development Organization** (UNIDO)

UNIDO is conducting several studies to make recommendations for government policies and strategies related to productivity, quality, and environment in the Economic and Social Commission for the LAC region. The studies pay particular attention to the impact of ISO 14000 standards on industrial competitiveness and policy recommendation.

Addr:	Mr. Hessel Schuurman, ECLAC/UNIDO
	Associate Expert
	<b>P.O.</b> Box 179-D
	Santiago, Chile
Tel:	+56 2-210-2417
Fax:	+56 2-208-0252
E-mail:	hschuurm@eclac.cl

### **US-AID**

EMS Development for Industry - Electric Power Sector. The Central Maine Power Company and the Natsionalna Elektricheska Kompania of Bulgaria are working on a U.S. AID-funded effort to develop EMS for major power plants in Bulgaria and for the central electric utility system. Bulgaria has adopted environmental standards similar to those of western Europe and the United States, however, both the plant equipment and the management systems are dated in terms of being able to meet these standards. This initiative will help the management side of environmental businesses. One major power plant was selected for system development; at the discretion of the Natsionalna Elektricheska Kompania, the EMS techniques will be transferred to the rest of the system.

Addr: Tel: Fax:	<b>Dr. Robert Ichord, Jr.</b> U.S. AID 320 21 st Street NW Washington, DC 20523 202-647-6962 202-647-8274
Addr:	Hristo Shwabsky
/ <b>IUU</b>	Natsionalna Elektricheska Kompania
	Sofia, Bulgaria
Tel:	359-2 980-1 968
Fax:	359-2-875826
E-mail:	nek.s.msp@mcr1.poptel.org.uk
Addr:	James H. Wazlaw
	Central Maine Power International
	One Grandview Place
_	Winthrop, ME 04364
Tel:	207-626-9749
Fax:	207-626-9597

(Cross-listed with State Initiatives, chapter 4)

### The United States Environmental Training Institute (USETI)

USETI is working in conjunction with Environmental Pollution Control **and** Sanitation Technology Company of Sao Paulo State (CETESB) coordinating a Green Procurement Policy project and **P2/ISO** 14000 courses.

### Addr: Joel Riciputi

USETI 100 Thomas Jefferson Street, NW, Suite 106 Washington, DC 20007 Tel: 202-338-3400 Fax: 202-333-4782

### Addr: Julia Alves

Rua Murupi, 195 Sao Paulo, Capital 05467-040 Brazil **Tel:** +55-11-3030-6491 or +55-1-3030-6490 **Fax:** +55-11-3030-6401 *E-mail:* juliaa@cetesb.br

### World Bank

*Informal Working Group on ISO 14000.* This group is addressing the possible implications on environment and trade for the countries. No documents have yet been published.

### Addr: David Hanrahan

Environment Department (Room **S3069**) World Bank 18 18 H Street NW Washington, DC 20433

Tel: 202-458-5686

Fax: 202-477-0968

E-mail: dhanrahan@ worldbank.org

# COUNTRY INITIATIVES

### Austria

*EU Environmental Management and Audit Scheme (EMAS).* The objective of the scheme is to promote continual improvements in the environmental performance of industrial activities by 1) establishing and implementing environmental policies, programs, and management systems; 2) evaluating the performance of such elements; and 3) establishing public information vehicles.

### Addr: Johannes Mayer, Director

Dept. Information-Documentation-Library
Federal Environment Agency
Spittelauer Laende 5, A
1090 Vienna, Austria
+43-1-31304-3240
+43-1-31 304-5400
mayer@uba.ubavie.gv.at
http://www.ubavie.gv.at

### *Institute for Ecological Research in Economics.* The institute conducts research in the field of environmental management, ecobalances, environmental accounting, pollution, and ecodesign.

Addr:	Dr. Christine Jasch Institut fur Okologische Wirtschaftsforschung Rechte Wienzeile 19/5, A- 1043 Wien
Tel:	Austria +0043-1-587-2 I-89
Fax:	+0043-1-5 <b>87-09</b> -71
E-mail:	ioew@magnet.at

### Bolivia

Sustainable Development Networking Programme (SDNP). SDNP comprises a network of institutions related to sustainable development and environment issues through e-mail connectivity and Internet facilities. The institutions are from the government, private, academic, **and** international cooperation sectors.

Addr:Juan Pablo Arce, National Coordinator<br/>Sustainable Development and Environment<br/>Ministry<br/>RDS/UNDP<br/>P.O. Box 12814<br/>La Paz, BoliviaTel:+59 I-2-3 17320Fax:+59 I-2-3 17320E-mail:sdnp@coord.rds.org.boVRL:http://coord.rds.org.bo

### Canada

*The Health Sciences Centre (HSC).* HSC is currently implementing an ISO 1400 1 Pilot Project in a 900 bed tertiary care teaching hospital.

HSC is participating in the Canadian Standards Association's (CSA) Pilot Project to implement an EMS in conformance with the draft ISO 14000 series of environmental standards. HSC already has several components of the system in place: 1) an environmental policy and senior management commitment to the policy, 2) an initial environmental review of issues, and 3) a performance reporting process.

During the next 12 months, the complete specifications for all processes in the EMS will be drafted in conformance with the ISO 14001 standard.

Addr:	John Reimer, P.E.
	Health Sciences Centte
	Environmental Protection Department
	Room MH 216
	59 Pearl Street
	Winnipeg, Manitoba
	R3E 3L7 Canada
Tel:	204-787-4792
Fax:	204-787-4854
E-mail:	j.reimer@awnet.com
URL:	http://www/hsc.mb.ca(underconstruction)

Canadian Departments of Environment and Industries' National Environmental Training Initiative. This initiative provides training materials and other source documents on the implementation of ISO 14000 voluntary environmental management standards to small and medium sized businesses.

Addr:	Dennis Landry
	13th Floor
	35 1 St. Joseph Blvd.
	Hull, Quebec K1 A OH3
Tel:	819-994-7977
Fax:	8 1 g-953-7970

*EMS Accreditation Program.* The program is governed by guidelines contained in Standards Council of Canada (SCC) publications entitled "Griteria and Procedures for Accreditation of Organizations Registering Environmental Management Systems" (CAN-P-14), "Criteria and Procedures for Accreditation of Environmental Auditors Certification Organizations" (CAN-P-1 412), and, in the near future, "Criteria and Procedures for the Accreditation of Environmental Auditor Training Courses and Providers" (CAN-P-14 13). The SCC is a federal crown corporation and a nonprofit organization. All components of this program operate on a full cost-recovery basis.

An advisory committee on EMS, made up of experts in the field, oversees the accreditation program and provides advice to SCC on matters pertaining to the environment. The SCC's deputy director of standardization is currently responsible for the day-to-day operation of the program; the manager of conformity assessment will assume this responsibility in the summer of 1997.

Registrars submit a written application to the SCC for accreditation, describing their organization and resources and including a fee as outlined in a published fee schedule. The environmental auditor certifiers submit a similar application as will the environmental auditor course providers.

Addr:	<b>Don Wilson,</b> P.E. 45 O'Connor Street Ottawa, ON <b>K1P 6N7</b> Canada
<b>Tel:</b>	613-238-3222, ext. 140
Fax:	613-995-4564
E-mail:	dwilson@scc.ca
URL:	http://www.scc.ca

### Kyrgyzstan

*Ecologist Club.* The club manages independent monitoring of Human Ecology in Kyrgyzstan and neighboring regions.

Addr:	Khodjamberdiev Igor, President
	Ecologist Club
	Khodjamberdiev, P.B. 145 1
	Bishkek, Kyrgyzstan, 720040
Tel:	+3312-221041
Fax:	+3312-288362
E-mail	: igorho@nlpub.freenet.bishkek.su

### Romania

### Advanced Interactive Training Course on EMS. This course applies the principles of the British Standard 7750 (BS 7750) and the European Eco Management and Audit Scheme (EMAS) in Romania.

The course is delivered over 3 days, with the participants implementing the first 2 stages of an

EMS, gaining commitment and policy formulation and performing the initial review during the month following the course. After a month, they participate in a 2-day workshop where they present achievements, receive an attendance diploma, and receive training in management for change.

Addr:	Bogdan 0. Paranici
	Str. Academiei 27, et. 2, Apartment 5
	70108, Sector 1
	Bucharest, Romania
Tel:	+40-1-312-66-39 or 615-02-32
Fax:	<b>+40- 1-3</b> 12-42-63
E-mail:	oparanici@pcnet.pcnet.ro

### Spain

**Program of communication and interpretation in protected natural areas.** Make available information and general services for visits to natural areas, services of interpretation and guided itineraries, formation and coordination of a volunteer program, communication to the local population and promotion of local participation

<b>Mariano Soriano Urban,</b> Ph. D Instituto de Ciencias <b>Sociales</b> y Ambientales Gral. Martin <b>Carrera</b>
Ed. Dunia II, B-A
E-3001 1-Murcia
Spain
+34-908-36-19-37 or +34-968-26-97-91
+34-968-26-97-91
murban@ctv.es
http://ctv.es/USERS/murban

### Sweden

*Chalmers University of Technology, Managing for Environmental Opportunities.* Chalmers University of Technology offers this program through its executive education organization, Chalmers Advanced Management programs (CHAMPS).

The focus is business-oriented and covers issues like scenario-based strategy development, transformation of the enterprise to gain environmental competitive advantage, development and implementation of EMS such as ISO 14000, and the EMAS. The program brings together a faculty of internationally renowned lecturers, NGOs, and industry cases with a mixed group of participants. The program is divided into two modules that is carried through in Sweden and the Netherlands.

Addr:	Peter Lindwall CHAMPS Chalmers Teknikpark S-4 12 88 Gothenburg Sweden
Tel:	+46 31-772-43-22
Fax:	+46 <i>3</i> 1-772-41-71
<b>E-mail:</b> URL:	peter.lindwall@champs.chalmers.se http://www.champs.chalmers.se/

### Switzerland

Quality Management Systems / Environmental Management Systems (QMS / EMS). This project introduces EMS in accordance with ISO 14001 to companies who already are in accordance with ISO 9000 to ensure the most efficient changeover process. The project commenced January 1, 1995, and is working closely with the primary certifier for EMS accreditation for ISO standards in Switzerland.

Addr:	Reto Felix				
	University of St. Gall				
	Institute for Management of Technology				
	(ITEM-HSG)				
	Unterstrasse 22				
	CH-9000 St. Gall				
	Switzerland				
Tel:	+41-71-228-24-14				
Fax:	+41-7 I-228-24-20				
E-mail:	reto.felix@item.unisg.ch				
URL:	http://www.unisg.ch/~item/PROJECT/QM/				
	qmsems.html				

### United Kingdom

*Centre* for *Environmental Technology*. The Centre is currently running three EMS oriented projects in the United Kingdom (UK) and the European Union (EU): 1) a pilot project to investigate the application of a standard methodology to implement the EU Eco-management and audit scheme (EMAS) in selected SMEs across the EU, 2) a UK study into environmental threats and opportunities facing SMEs and their associated management strategies, and 3) a pilot study investigating the barriers and opportunities facing enterprises implementing EMAS and other EMS such as the British standard BS 7750 and ISO 14001.

# Addr: Ruth Hillary Centre for Environmental Technology Imperial College of Science, Technology, and Medicine 48 Prince's Gardens London SW7 2PE England Tel: +44-171-589-5111 Fax: +44-17 1-58 I-0245 E-mail: r.hillary@ic.ac.uk

# 7

# RESOURCES

This chapter presents listings of ISO 14000-related *resources* rather than *initiatives*. These resources may be useful sources of information to organizations exploring ISO 14000, and several categories of resources are included. Each entry only briefly describes the resource; contact information is provided for use in obtaining more details.

The entries included in this section are not endorsed or approved in any way by EPA. All submitted entries that were applicable for inclusion in the Directory have been listed. Because the purpose of this Directory is to provide information on government activities concerning ISO 14000 and/or Environmental Management Systems (EMS), it is beyond the scope of the Directory to include a comprehensive listing of all the private sector organizations and initiatives also involved in ISO 14000 and/or EMS. Every effort has been made to ensure the information in each entry is correct.

1. US. National Standards

2. International Standards

- 3. Accreditation
  - 4. Training

5. Clearinghouses

6. Publications

**7.Internet Resources** 

# **U.S. NATIONAL STANDARDS**

### The American National Standards Institute (ANSI)

ANSI is the single, private sector certifier of U.S. national standards, and is the sole U.S. member body to the International Organization for Standardization (ISO). ANSI does not develop standards, rather ANSI is responsible for providing U.S. input, through Technical Advisory Groups (TAGS), to international standards development committees in ISO. Contact: **Jane Schweiker**, Director Public Policy and Government Relations, ANSI, 7315 Wisconsin Ave., Suite 250-E Bethesda, MD 20814. Tel: 301-469-3363. E-mail: jschweik@ansi.org.

Three U.S. standards organizations, which are members of ANSI, cooperate in the administration of the U.S. TAG for ISO 14000 standards. They are:

### American Society for Testing & Materials Initiatives (ASTM)

ASTM is the primary administrator for the entire U.S. TAG to ISO TC207. **Kathy Morgan**, ASTM, 100 Bar Harbor Dr., West Conshohocken, PA 19428. Tel: 610-832-9721. Fax: 610-832-9666. E-mail: kmorgan@local.astm.org. URL: http://www.astm.org.

### American Society for Quality Control (ASQC)

61 | East Wisconsin Ave., P.O. Box 3005, Milwaukee, WI 53201. Tel: 800-248-I 946. Fax: 414-272-1734.

### **NSF** International

NSF International is an authorized source for the ISO 14000 standards. Anita M. Cooney, NSF International, 2 100 Commonwealth Blvd., Ann Arbor MI 48 105. Tel: 313-332-7333. Fax: 3 13-669-0196.

Information on these and other U.S. standards-setting bodies is provided through NIST (see page 3-1) or ANSI.

# **INTERNATIONAL STANDARDS**

Both the World Trade Organization (WTO) and the North American Free Trade Agreement (NAFTA) recognize the national standards-setting bodies that are members of ISO. Information on TC207 Member Bodies and the countries they represent is available via the ISO home page: **www.iso.org.** 

# ACCREDITATION

### ANSI-Registrar Accreditation Board (RAB)

*National Accreditation Program (NAP) for ISO 14000 Environmental Management Standards.* ANSI-RAB conducts the U.S. national accreditation program that accredits registrars and training course providers. **Rick James,** ANSI-RAB, 73 15 Wisconsin Avenue, Suite 250-E, Bethesda, MD 208 14. Tel: 301-469-3360. Fax: *30 1-469-336* 1.

# TRAINING

ISO 14000 training courses are offered by a wide variety of organizations and companies within the private sector. Various federal and state agencies, universities, and other organizations may also offer in-house training courses. Information about these courses may be obtained by contacting them directly. Training course information within EPA may be obtained by contacting Eric Wilkinson, Voluntary Standards Network, U.S. Environmental Protection Agency (7409), 401 M St., SW, Washington, DC 20460. Tel: 202-260-3575. Fax: 202-260-0178. E-mail: wilkinson.eric@epamail.epa.gov.

# CLEARINGHOUSES

### EPA's Pollution Prevention Information Clearinghouse (PPIC)

PPIC disseminates information on the U.S. EPA's involvement with ISO 14000 via the Internet and EPA and Pollution Prevention Division home pages. Susan Westerburg, US. EPA,. 401 M St., SW (MC 7407), Washington, DC 20460. Tel: 202-260-1758. Fax: 202-260-4659. E-mail: ppic@epamail.epa.gov.

### World Data Center A (WDC-A) for Human Interactions in the Environment

Data resources available include collections of international environmental agreements, integrated assessment models of global climatic change, as well as the distributed international resources of CIESIN's Information Cooperative. Dr. Roberta Balstad Miller, Director, CIESIN, 2250 Pierce Road, University Center, MI 487 1 0-0001. Tel: 5 17-797-2727. Fax: 5 17-797-2622. E-mail: ciesin.info@ ciesin.org URL: http://www.ciesin.org

# PUBLICATIONS

The ISO 14000 series of standards are copyrighted and can be obtained by contacting any of the following organizations: ANSI, 73 15 Wisconsin Ave., Suite 250-E Bethesda, MD 208 14. Tel: 301-469-3363. ASTM, 100 Bar Harbor Dr., West Conshohocken, PA 19428. Tel: 61 O-832-972 1. Fax: 61 O-832-9666. ASQC, 6 11 East Wisconsin Ave., P.O. Box 3005, Milwaukee, WI 53201. Tel: 800-248-1946. Fax: 414-272-1734. NSF International, 2 100 Commonwealth Blvd., Ann Arbor MI 48 105. Tel: 3 13-332-7333. Fax: 3 13-669-0196.

### INTERNET RESOURCES

### Mailing Lists

### #ecdm

The Environmentally Conscious Design and Manufacturing mailing list is as a forum for discussing issues regarding designs and manufacturing processes for products (including buildings) from an environmentally friendly viewpoint. Methods for analyzing these products are also discussed. Post messages to ecdm@pdomain.uwindsor.ca. The listserver address is: listserv@pdomain.uwindsor.ca.

#### URL: http://ie.uwindsor.ca/ecdmlist/welcome.html.

#### ISO 14000 RESOURCE DIRECTORY

#### #govpub

This list promotes the dissemination of local and state government information online to exchange ideas and information related to their efforts. Both the technical and policy issues of government information on the Internet are addressed. Post messages to: govpub@listserv.nodak.edu. The listserver address is: listserv@listserv.nodak.edu.

### #iso14000

This unmoderated list is designed for the discussion of the ISO 14000 certification guidelines for environmental and related industries. Post messages to iso14000@quality.org. Listserver at majordomo@quality.org.

#### #quest

The QUEST list (Quality, Environment, Safety in Management). Post messages to quest@listserv.nodak.edu. Listserver at listserv@listserv.nodak.edu.

### #regref-l

This list (Regulatory Reform List) is a moderated discussion group that **is** intended to foster an interdisciplinary discussion about the reform of regulation. No one accepted definition of regulation exists for the purposes of this discussion group, the term "regulation" is used broadly to include the full range of legal instruments by which governing institutions, at all levels of government, impose obligations or constraints on private sector behavior. Post messages to regref-l@cyberus.ca. Listserver at majordomo@cyberus.ca. URL: http://www.cyberus.ca.

### #tenep

The Electronic Network of Environmental Professionals (TENEP) moderated list. Post messages to tenep@envision.net.

### **ISO Websites**

### International Organization for Standardization

Official ISO Online site. ISO information including Your guide to ISO Online, Introduction to ISO, ISO structure, ISO members worldwide, ISO technical committees, ISO meeting calendar, ISO Catalogue; What's new at ISO?, and Other Web servers providing standards information. For specific questions and comments on this WWW server: webmaster@isocs.iso.ch. For general information and questions on ISO: CENTRAL SECRETARIAT ADDRESS 1, rue de Varembé, Case postale 56, CH-I 211 Genève 20, Switzerland. Tel: + 4 1 22 749 01 11. Fax: + 4122 733 34 30. E-mail: central@isocs.iso.ch. URL: http://www.iso.ch.

### International Organization for Standardization

Additional WWW server for the IS0 (as of 4/30/97, faster access than official site). IS0 information including: How to place your order for IS0 Standard Publications published by IS0 in Geneva, What is ISO?, Technical Committees, Newly Published IS0 and IEC Standards, and IS0 and IEC Draft International Standards (DIS). H. Ikeda, Computer Engineering, Electronic Systems Division, Department of Electric and Electronics Engineering, Faculty of Engineering, Chiba University, 1-33 Yayoi, Inage, Chiba 263, Japan. Tel: +8143 290 3352. Fax: 8143 290 3039. E-mail: ikeda@hike.te.chiba-u.ac.jp. URL: http://133.82.181.177/ikeda/ISO/home.html.

### International Organization for Standardization: Environmental Management

ISO site dealing with Environmental Management. Information on each of the subcommittees can be found here as well. URL: http://www.iso.ch/meme/TC207.html.

### U.S. Federal & State Government Websites

### Pennsylvania Department of Environmental Protection (DEP) IS0 14000 information site

This site includes ISO 14000 and the Next Generation of Environmental Protection Tools, DEP Looking for ISO 14000 Partners, Privatization of Environmental Regulation, So What is ISO 14000 Anyway?, Going Green With Less Red Tape, ISO 14000: A Building Block for Redefining Environmental, Sustainable Development, and Links to Others Sites With ISO 14000 Information. E-mail: ASKDEP@a1.dep.state.pa.us. URL: http://www.dep.state.pa.us/dep/deputate/pollprev/ISO14000/ISO14000.HTM.

### President's Council on Sustainable Development site

This site includes a message from the Executive Director, General Information, Council Report, Vice President's Speech, Task Force Reports, and Newsletters. E-mail: pcsd@igc.apc.org. URL: http://www.whitehouse.gov/WH/EOP/pcsd/index.html

### Enviro\$en\$e

Enviro\$en\$e is a pollution prevention and environmental compliance assistance network. Its databases offer full-text and multisite search tools to address technical and regulatory issues with information from a wide spectrum of government, industry, academic, and public interest sources. URL: http://es.inel.gov/.

### EPA's Partners for the Environment

EPA's Partners for the Environment Web site contains links to many other initiatives including 33/50, Common Sense Initiative (CSI), Design for the Environment, Environmental Leadership Program, EPA Standards Network, and Project XL. E-mail: anderson.joe@epamail.epa.gov. URL: http://www.epa.gov/partners/.

### The Public Sector Continuous Improvement Site

This site offers suggested reading material, a library of documents available online, organizations of interest, and a guide to online resources. John Hunter, Webmaster, Public Sector Continuous Improvement Site. E-mail: asqcpsn@aol.com. URL: http://deming.eng.clemson.edu/pub/psci.

### International Websites

### Canadian Standards Association

This site includes: Background Standards Information, News and Information, and Member and Technical Committee Services. Canadian Standards Association, **178 Rexdale** Boulevard, Etobicoke (Toronto), Ontario, M9W 1R3. Tel: 800-463-6726, 416-747 4000. Fax: 416-747-4149. E-mail: webmaster@csa.ca. URL: http://www.csa.ca/toc-prog.htm.

### Central European Environmental Data Request Facility (CEDAR)

This is a project of the Austrian Federal Ministry for the Environment providing information including CEDAR/ISEP, Databases and Resources, CEDAR Mailing List Archives (INFOTERRA, ENVENG-L), Environmentally Relevant Institutions, other interesting links, and CEDAR/ISEP staff. E-mail: webmaster@cedar.univie.ac.at. URL: http://www.cedar.univie.ac.at/.

### United Nations Environment Programme Geneva Executive Center (Switzerland)

This Web site is maintained by UNEP's Information Unit for Conventions (IUC) to make information from secretariats more widely available. Many environmental resources including: Trade and the Environment and other Web sites on environment and sustainable development. E-mai: Webmaster@unep.ch. URL: http://www.unep.ch.

#### La Planete a Besoin de Nous

French and European Environmental Associations Directory. Tel: 33-01-42-63-34-62. E-mail: adme@worldnet.fr.URL: http://www.worldnet.fr/~adme.

#### Manitoba Pollution Prevention

This home page has link to the Canadian Council of Ministers of Environment, which in turn links to all provincial environment department home pages. URL: http://www.gov.mb.ca/environ.

#### Standards Council of Canada

This site includes an article on pressures to create sector specific standards for ISO 14000. **Http://www.scc.ca/consensu/fitall2307.html** 

### Industry Websites

#### IAS Environmental Management Systems (EMS) Registration Program and ISO 14000 Page

International Approval Services (IAS) is a joint venture of the American Gas Association and the Canadian Gas Association EMS Registration Program and ISO 14000 Page that includes: ISO 14000 Introduction; Who - What - Where - When - Why - How of the ISO and ISO 14000; The U.S. Technical Advisory Group (TAG) and Its Role in ISO; What Is An EMS?; ISO 14001 Guidance Document; Benefits of EMS Implementation and Registration; and EMS Assessment Pilot Project. Cleveland Office (Main), 8501 E. Pleasant Valley Road, Cleveland, Ohio 44131. Tel: 800-247-0802 / 2 16-524-4990. Fax: 2 16-642-3463. URL: http://www.gasweb.org/gasweb/ias/iso14000.htm

### Nongovernmental Organization Websites

### The Committee for the National Institute for the Environment (CNIE)

CNIE is a national, nonprofit organization working to improve the scientific basis for making decisions on environmental issues through creation of a new, non-regulatory environmental science and education agency. E-mail: cnie@access.digex.net. URL: http://www.inhs.uiuc.edu/niewww/temp.html

### IS0 14000 West Coast Working Group

This site has the work of several committees from the West Coast of North America as well as general ISO 14000 information. URL: http://www.wcwg.org.

### University Websites

Asian Institute of Technology (AIT). This site details how to implement ISO 14000. URL: http://www.ait.ac.th/AIT/som/as/ISO14000/index.htm.

### Links

#### EcoNet World-Wide Web pages

This site contains links to the many environmental organizations. Information categories include EcoNet News Of Note; EcoNet New and Featured Items; EcoNet Issue Resource Center (Web sites sorted by category); EcoNet's Directory of Organizations; EcoNet's Environment Gopher; and a search engine for EcoNet's Web site. There is no direct ISO 14000 information. E-mail: econet@igc.apc.org. URL: http://www.igc.apc.org/econet.

### GLOBE Resource Centre (GRC)

This site has links to Internet environmental business sites. E-mail: grcinfo@globe.apfnet.org. URL: http://globe1.apfnet.org/.

#### ISO 14000 RESOURCE DIRECTORY

#### **Quality Resources Online**

This site provides a list of links to other Web resources (sites and mail lists) related to ISO 14000. E-mail: help@quality.org. URL: http://www.casti.com/qc/html/iso14000.html.

### ISO World

This site provides links to quality and EMS sites, and is the source of free Global Strategic Systems Newsletters. E-mail: db700378@jnet.sumiden.co.jp. URL: HTTP://www.omninet. co.jp/isoworld/english/english.htm.

### Centre for Economic and Social Studies for the Environment (CESSE)

Information includes activities; studies achieved and/or in progress; selected papers; training programs in the field of environment; and a Directory of Best Environmental Directories. Université Libre de Bruxelles (ULB) 44, Avenue Jeanne, CP 124, B-l 050 Brussels, Belgium. Tel: +32-2-650 33 77. Fax: +32-2-650 46.9 1. E-mail: whecq@ulb.ac.be. URL: http://www.ulb.ac.be/ceese/cesse.html.

### WWW Virtual Library Environment

This site has links organized by subject and includes a List 0' Lists of Environmental Resources. URL: http://ecosys.drdr.virginia.edu/environment.html.

# **SEPA** ISO 14000 Resource Directory

# Submittal Form

Please use this form to provide us with updates on your ISO 14000 initiative, or submit information about new initiatives.

Initiative Name:

Brief Description:

Contact Person:

Mail Address:

Telephone Number:

Fax Number:

E-mail Address:

URL, WWW Home Page and/or Other Internet Resources (listserv, gopher, ftp):

Organization Status (circle one):	Government	Non-Profit	For-Profit
Other(explain)			

Postage

- --- --- --

### ISO 14000 RESOURCE DIRECTORY

U.S. Environmental Protection Agency (MSG77) National Risk Management **Research** Laboratory 26 W. Martin Luther King Drive Cincinnati,OH 45268

fold along line