

PREFACE

This publication is the result of a study undertaken by the National Energy Information Center (NEIC), a service of the Energy Information Administration (EIA), to provide its customers with a list of generally available free or low-cost energy-related educational materials for students and educators. The list is updated once a year. To include a new entry in the next issue, contact NEIC at the following address:

National Energy Information Center, EI-231
Energy Information Administration
Room 1F-048, Forrestal Building
1000 Independence Avenue, S.W.
Washington, DC 20585
(202) 586-8800
TTY: For people who are deaf or hard
of hearing: (202) 586-1181

This year's edition contains several new features. Most organizations have added their fax number and electronic mail (E-Mail) address to the list. A table of contents and a subject index were also added to better assist our readers. Each entry is followed by a number, which is referenced in the subject index in the back of this book.

Some of the organizations represented in this list take policy positions on certain energy issues and express them even in school-level materials. Because EIA is the independent statistical and analytical agency within the U.S. Department of Energy (DOE), it does not advocate any policy position of DOE or any other organization. EIA has completed this list solely to aid educators and students in locating materials. It is the responsibility of the educators to help their students draw conclusions about energy issues.

The list was compiled by Paula Altman of the National Energy Information Center.

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The Alliance to Save Energy
1725 K Street, N.W., Suite 509
Washington, DC 20006-1401
(202) 857-0666
Fax: (202) 331-9588

Offers a booklet, *The Path to an Energy-Wise Home*, with detailed information for consumers on ways they can save money on their utility bills by making their homes more energy efficient. This colorful booklet, which explains the environmental and economic costs of using energy, includes worksheets for adults and activities for children that help raise the energy awareness of the entire family. Single copies are available free; bulk quantities are available for a fee. 1

The Aluminum Association, Inc.
900 19th Street, N.W.
Washington, DC 20006-2168
(202) 862-5100
Fax: (202) 862-5164

Provides educational materials on recycling for use in kindergarten through grade 12. There are two educational videos available, "Call Me Can" and "Aluminum Recycling: Your Next Assignment." The videos can be borrowed on a free-loan basis by calling Modern Talking Picture Service (1-800-243-6877). Free catalogs are also available. 2

American Association for Vocational Instructional Materials
220 Smithonia Road
Winterville, GA 30683
(706) 742-5355
Fax: (706) 742-7005

Provides vocational instructional materials on electricity and electrical energy. Included are publications, computer software, and videos for reasonable fees. A free catalog is also available upon request. Publications available include *Electric Energy; Understanding Electricity and Electrical Terms; Electrical Wiring; How Electric Motors Start and Run; Fuels and Lubricants; Electric Motors; Home Electrical Repair; and Electrical Controls*. 3

A nonprofit coalition of business, government, environmental, and consumer leaders.

A trade association representing the U.S. aluminum industry. Serves as principal source of information on aluminum and the industry.

A nonprofit developer, publisher, and distributor of materials for vocational education.

American Chemical Society

1155 16th Street, N.W.
Washington, DC 20036
(202) 872-4590
Fax: (202) 833-7732

Publishes educational products for use in grades 4 through 12. *WonderScience* is an exciting monthly hands-on science activities magazine for middle school students (back issues are available); *ChemMatters*, an award-winning magazine for high school students, relates chemistry to everyday life (published quarterly, back issues are available); and *ChemCom*, also for high school students, is a chemistry textbook that combines an emphasis on the role of chemistry in everyone's life with basic chemical knowledge. All three products deal with energy-related topics such as electricity, recycling, nuclear energy, and the environment. A free *Teaching Resources Catalog* is available upon request. 4

American Coal Foundation

1130 17th Street, N.W., Suite 220
Washington, DC 20036-4604
(202) 466-8630
Fax: (202) 466-8632

Provides materials on coal production, distribution, usage, research, and the environment. Some of the materials are available in classroom sets free of charge. Also available free of charge is a coal kit containing samples of peat, lignite, bituminous coal, and anthracite, and a brief description of the formation and different types of coal.

5

The world's largest scientific society, with a membership of nearly 149,000 chemists and chemical engineers.

A nonprofit educational organization supported by a coalition of coal producers, electric utilities, railroads, equipment suppliers, sellers, and the labor union.

American Forest Foundation

Project Learning Tree

1111 19th Street, N.W., Suite 780

Washington, DC 20036

(202) 463-2462

Fax: (202) 463-2461

PLT is co-sponsored by the American Forest Foundation and the Western Regional Environmental Education Council. PLT's newly revised curriculum guide, *Project Learning Tree: Environmental Education Pre-kindergarten through Grade 8 Activity Guide*, focuses on the total environment: land, air, and water. It is local, national, and global in scope. The new curriculum underscores PLT's primary goal-to help children learn how to think about the environment, not what to think about the environment. The curriculum remains easily adaptable to many settings from the classroom to youth organizations, museums, nature centers, and scout troops. Nearly 100 activities are offered in a story-line technique covering the themes of diversity, interrelationships, systems, structure and scale, and patterns of change. Central to the new curriculum is an emphasis on constructivist learning theory and whole language teaching strategies. Back-ground information, authentic assessment opportunities, an extensive bibliography, and a cross reference index are also included. A new curriculum made up of individual thematic modules, for use in grades 9 through 12, is near completion. PLT curricular materials are available only through workshops. Contact PLT for the name of the program coordinator in your State. 6

Develops, funds, and administers programs that encourage the long-term stewardship of our natural resources. The Foundation's core programs are Project Learning Tree (PLT) and the American Tree Farm System.

American Geological Institute

4220 King Street
Alexandria, VA 22302-1507
(703) 379-2480
Fax: (703) 379-7563

Distributes information on earth science education through several mechanisms, including publications (textbooks, monographs, brochures), public inquiries, and outreach (workshops and presentations). *Careers in the Geosciences* (1-10 copies free) and the *Earth Science Resources List for Teachers* (free) are among the publications available. Compiled and distributed since 1990, the *Earth Science Resources List for Teachers* provides information on earth science educational materials that are available from nonprofit organizations. The list is updated annually and is available in hard copy and through electronic mail at: ncese@aip.org

AGI's goals are to advance and promote the geosciences through improved public information, expanded professional services to the geoscience community, and increased earth science educational programs at the college and precollege levels. For additional information, write to AGI Publications Center, P.O. Box 205, Annapolis Junction, MD 20701, (301) 953-1744. 7

American Mining Congress

1920 N Street, N.W., Suite 300
Washington, DC 20036
(202) 861-2800
Fax: (202) 861-7535

Provides educational materials on mining in the United States and the importance of minerals in our daily lives for energy and other uses. A video, "Mining: Discoveries for Progress," and a brochure, *What Mining Means to Americans*, are available for a fee and for free, respectively, to the general public. Both are available free to a teacher requesting them on school letterhead. Other materials are available upon request.

Established in 1948, the American Geological Institute (AGI) is a nonprofit federation of 24 member organizations representing more than 80,000 geologists, geophysicists, and other earth scientists.

A trade association representing producers of America's coal, metals, industrial minerals, and agricultural minerals; mining equipment manufacturers; and engineering, consulting, and financial institutions that serve the mining industry.

American Nuclear Society

Public Communications Department
555 North Kensington Avenue
LaGrange Park, IL 60525
(708) 579-8265
Fax: (708) 352-0499

A nonprofit
scientific and
educational
organization.

Offers free publications (single copies) on nuclear energy and uses of the atom. Available materials include *Nuclear Energy Facts Q&A*, *Nuclear Technology Creates Careers*, *Personal Radiation Dose Chart*, and a simulated nuclear fuel pellet. Science and social studies curricula materials for use in kindergarten through grade 12 may be borrowed or purchased. A free catalog is available upon request. Teachers may sign up for the free newsletter *re-actions*, which contains articles on uses of the atom in everyday life and-in each issue-an "activity card" with a project for classroom use. Also sponsors 1- to 5-day teacher workshops. 9

American Petroleum Institute

Public Relations Department
1220 L Street, N.W.
Washington, DC 20005
(202) 682-8000

A national trade
association that
encompasses all
branches of the
petroleum
industry.

Supplies educational materials on the petroleum industry. Some publications are free, such as *The Ecosystem of Oil* which is available for classroom use in quantities of up to 35 copies. A free catalog is available.

American Plastics Council

1275 K Street, N.W., Suite 500
Washington, DC 20005
(202) 223-0125
1-(800) 2-HELP-90

Offers educational materials on plastics in the waste stream, including the curricular supplement kits "Plastics in our World" for use in kindergarten through grade 6 and in grades 7 through 12. The kits were created with help from science teachers and contain materials that debunk the major myths about plastics. Included in these materials is the booklet *How to Set Up a School Recycling Program*, which takes a step-by-step approach to starting and building upon current recycling programs. The kits also contain classroom activities for students in kindergarten through grade 3, in grades 4 through 6, and in grades 7 through 12 and an order form for the videotapes "The Resource Revolution" and "Working Together for a Healthier Planet." An order form listing additional materials from the American Plastics Council and its member companies will also be included. 11

American Public Power Association

2301 M Street, N.W., Suite 300
Washington, DC 20037
(202) 467-2900

Provides various pamphlets, including *The Benefits of Public Power; History of Public Power; Careers in Public Power; and All About Electricity and 10 Ways Kids Can Save It*. Offers a *Teaching Unit on Electromagnetic Waves*, which was developed by the Los Angeles Department of Water and Power for junior high and senior high school students. Also available are two videos, "Simple Things You Can Do to Save Energy" and "How to Make Great Videos About Saving Energy." The videos were prepared by the Burlington (Vermont) Electric Department through the American Public Power Association's DEED (Demonstration of Energy Efficient Developments) program. Publications and videos are offered for a nominal fee. A free catalog is available. 12

An industry organization dedicated to developing technically and economically sound programs for the responsible use, recovery, and conservation of plastics. A joint initiative with The Society of the Plastics Industry.

A service organization for community-owned not-for-profit electric utilities.

American Solar Energy Society
2400 Central Avenue, Suite G-1
Boulder, CO 80301
(303) 443-3130
Fax: (303) 443-3212
E-Mail: ases@igc.apc.org

A national membership association dedicated to advancing the use of solar energy.

Offers sample copies of its magazine *Solar Today*. Has one science project book, *Elementary and Secondary Science Projects in Renewable Energy and Energy Efficiency*, available for a fee. Bulk discounts are available. 13

American Water Works Association
6666 West Quincy Avenue
Denver, CO 80235
(303) 794-7711
(303) 347-6206 (YOUTH EDUCATION)
Fax: (303) 794-8915

An international, non profit, scientific, and educational organization of professionals associated with the public drinking water industry, including utilities, manufacturers, consultants, researchers, educators, etc.

Provides education materials for students in kindergarten through grade 12. Materials are designed to teach young people about water treatment, distribution, conservation, cycle, and careers. Materials include activity books, teacher's guides, comic style books, computer software, videos, bookcovers, and novelty items. Many of the American Water Works Association's (AWWA) utility members use these materials in their public education programs, and many provide them free of charge for schools in the areas they serve. Nonmembers may order materials directly from AWWA headquarters in Denver. Most materials are quite low in cost. A free information packet which includes a materials catalog, sample materials, and descriptions of AWWA youth education awards, is available upon request. 14

American Wind Energy Association

122 C Street, N.W., Suite 400
Washington, DC 20001
(202) 383-2500
Fax: (202) 383-2505
E-Mail: jclendenin@mcimail.com

Offers two fact sheets on wind energy. One is written for elementary school students (grades 3 through 6) and one for secondary school students (grades 7 through 12). These are available as a packet free upon request. Teachers may want to request a free copy of AWEA's annual status report of wind energy development as well. The booklet *Renewable Energy Fact Sheets*, written by members of the renewable energy industry and Federal laboratories, is available for a fee . 15

Apple Computer, Inc.

1 Infinite Loop
Cupertino, CA 95014
1-(800) 800-2775

In 1990, Apple introduced the LC series of computers (including the I, II, III, 520, 550, 575, and 630). Developed specifically for education, this learning computer series features an all-in-one design and integrated multimedia features, including a built-in CD-ROM drive.

For educators who need greater power or faster speed, Apple introduced Power Macintosh in early 1994. This family of high-end computers is built around the new PowerPC<F128P10J245>æ<F255P255J0> processor and its advanced RISC technology. The Power Macintosh upgrade option offers educators the flexibility to add new capabilities to Macintosh LC computers while protecting their technology investments.

The Apple Education Series (AES), a suite of products that help educators effectively use and integrate technology into their learning environments, includes hardware and software components and select training and support, focusing on curriculum and other education-specific needs.

The American Wind Energy Association (AWEA) represents wind energy as a technology that is economically and technically viable today.

Apple develops, manufactures, and markets personal computers for use in education, business, science, engineering, and government.

In addition to the current products, Apple also publishes the *Macintosh & Curriculum* handbooks for kindergarten through grade 12. Handbooks model technology integration into the mathematics and science curriculum. Each handbook contains assessment guidelines and a variety of investigations which consists of lesson plans, activities, and extensions.

In the *Macintosh & Curriculum Handbook: Elementary Mathematics and Science*, energy-related investigations include: "Star Date: 2210 In Search of the Lost Probes" and "Whole Lotta So." In the *Macintosh & Curriculum Handbook: Secondary Science*, energy-related investigations include: "Conservation of Heat Energy," "Change Through Time," "What Environmental Conditions May Bring About Extinction," and "Temperature Change."

Information about any Apple product is available by calling our national educational support center at 1-800-800-APPL. Science handbooks are available for a nominal fee from the National Science Teachers Association at 1-800-722-NSTA. 16

Arizona Department of Commerce

Energy Office
3800 N. Central, Suite 1200
Phoenix, AZ 85012
(602) 280-1402
Fax: (602) 280-1445

Provides the following materials and services for primary school and secondary school educators free of charge: *Bright Ideas* (single-topic publications covering energy and the environment, renewable energy, solar cooking, passive solar design, photovoltaics, solar and electric cars, solar shading and landscaping, and recycling); *Gourmet Guide To Energy Education* (annotated directory of curricular materials); Energy Learning Centers I, II, and III (activities and games for primary, intermediate, and upper grades); and Energy Patrol (assistance including start-up kit and video for teachers organizing school energy patrols). 17

The Aseptic Packaging Council

1225 Eye Street, N.W., Suite 500
Washington, DC 20005
1-(800) 277-8088
Fax: (202) 333-5987

Offers free educational materials on recycling issues for teachers and students. *Waste Wise: Concepts in Waste Management*, a teacher's discussion guide, can be adapted for particular classes from kindergarten through grade 12. Teaching guides produced in conjunction with Scholastic, Inc., are also available. When ordering, please ask for *Planet Earth* and/or *What's New In Recycling*. Posters, such as *A Day in the Life of a Drink Box* and *Aseptic Science: Preserving History*, are perfect for bulletin boards in classrooms for kindergarten through grade 5. A colorful pamphlet, *Drink Boxes are as Good on the Outside as They are on the Inside*, is another fun way to find out about drink box recycling and energy savings. For more on total energy savings, please ask for *Energy Exchange*. Textbook protection covers that explain the importance of recycling are also available free of charge. 18

A DOE-funded program that emphasizes an energy efficiency curriculum for students in kindergarten through grade 12.

A trade association of drink box manufacturers committed to establishing effective and economical school and curbside drink box and milk carton recycling programs.

Bakken Library and Museum of Electricity in Life

3537 Zenith Avenue South
Minneapolis, MN 55416
(612) 927-6508
Fax: (612) 927-7265

A private
nonprofit
organization.

The museum has developed a model for teaching electricity using prototype "18th Century Electricity Kits" for grades 7 through 9. Comprised of easily assembled parts, the kit includes a cylinder electrostatic generator, a Leydenjar, an electrophorus, and an electrometer, as well as guides for teachers and students. A 30- to 40-minute video accompanies materials to depict original experiments performed on 18th century electric apparatuses. This project was supported by the National Science Foundation. 19

Baltimore Gas and Electric Company (BGE)

Education & Volunteer Services
P.O. Box 1475
Baltimore, MD 21203-1475
(410) 234-7484
Fax: (410) 234-7426

Provides educational services free of charge to schools in BGE's service area. Services include classroom programs, career programs, resources, and newsletters for educators; certified workshops for educators; and films/videos, power plant tours, and classroom literature for students in kindergarten through grade 12. A free *Educational Resources* catalog is available upon request.

An investor-owned utility serving Baltimore City and all, or parts of, nine central Maryland counties.

Biofuels America

26 Lorin Dee Drive
Westerlo, NY 12193
(518) 797-3377
Fax: (518) 797-3385
E-Mail: biofuels@globalone.net

Maintains a large database of contacts and publications. Provides free referrals to educators and students. Will help locate others involved in renewable fuels, energy, and energy efficiency by region or by other specific information, including political, environmental, agricultural, and industry contacts. Hosts a biofuels forum on the Internet. Helps identify potential opportunities for development of regional businesses. Offers free educational materials when available. **21**

BP America

Corporate Communications
200 Public Square (40-H)
Cleveland, OH 44114-2375
(216) 586-6511
Fax: (216) 586-5593
E - M a i l :
usaclv/regctr002/kochtj%bp@mcimail.com

Offers *BP Statistical Review of World Energy*, a booklet containing information on world energy supplies and demand. Includes data on oil, gas, coal, nuclear, and hydro in terms of reserves, production, and consumption for a 10-year period before the current year. Additionally, two publications are available free to teachers—*New Horizons*, BP's annual report on health, safety, and the environment, and, in limited quantities, *BP Review of World Gas*. Contact the address above. Also available is the *BP Educational Resources Catalogue* which offers a full range of school resource materials. Some of the items in the catalog are available for a fee. Write to BP Educational Service, P.O. Box 934, Poole. Dorset BH17 7BR, United Kingdom, for a free copy of the catalog. **22**

A not-for-profit organization. Advocates the production and use of renewable transportation fuels with a focus on environmental sustainability, regional economic growth, and curbing global climate change.

The wholly owned U.S. subsidiary of one of the world's largest international petroleum and petrochemical groups.

Bullfrog Films

P.O. Box 149
Oley, PA 19547
1-(800) 543-3764
Fax: (610) 370-1978
E-Mail: bullfrog@igc.apc.org

An educational film distributor that offers the largest collection of energy films and videos in the country.

Provides educational films and videos on energy and energy-related issues. Titles include *Bill Loosely's Heat Pump*; *Decision: Energy for the Future*; *The Energy Bank*; *Energy Efficiency*; *Energy, Technology and Society*; *Harness the Wind*; *Living Under the Cloud*; *Chernobyl Today*; *Race for the Future*; *Solar Promise*; and *Wake Up Freddy*, in the tradition of Bullfrog's classic, *Toast*. Programs are available for purchase or rental. Special packages, with discounted prices, can be created to serve most schools' needs. A free catalog is available upon request. 23

California Energy Extension Service

Governor's Office of Planning and Research
1400 10th Street, Room 209
Sacramento, CA 95814
(916) 323-4388

DOE-funded program providing information and training on renewable energy and energy efficiency, specifically to schools, small businesses, and Indian tribes.

Provides materials, including lesson plans and classroom activities, to primary school and secondary school teachers. *Environmental Education: Compendium of Energy Resources* lists available materials and where to obtain them. 24

California Foundation for Agriculture in the Classroom

1601 Exposition Boulevard, FB 16
Sacramento, CA 95815
(916) 924-4380
Fax: (916) 923-5318

Teachers may request many free or low-cost items including lesson plans, intensive classroom units, videos, a resource guide, and the *Cream of the Crop* newsletter. Most programs are specific to California but a limited number of resources may be available for use in other States. Among lesson plans available for sale are *Baseball Bats-Where do they Come From?*; *Simple Machines Used in Agriculture*; *Energy and Peanuts*; and *The Mystery of Pumpkins*. Most lesson plans are correlated with California subject frameworks and undergo extensive field testing.

The Foundation encourages classroom integration of agriculture to increase understanding of its vital role in our lives. Contact with the Foundation is a good starting point for reaching other agriculture-related groups that produce educational resources. 25

The Center for Energy and Economic Development (CEED)

1800 Diagonal Road, Suite 370
Alexandria, VA 22314
(703) 684-6292
Fax: (703) 684-6297

Offers *America's Fuel*, a booklet describing how coal is mined and sent to the marketplace, coal's role in supplying America with electricity, environmental compatibility, new technologies, and economic growth. A video, also called "America's Fuel," is available as well. Also available is a CEED "Pocket Piece" folder which gives facts about coal on topics such as: coal technology, coal transportation, health and safety, coal and the environment, coal and the economy, and electricity. All are free of charge. 26

A nonprofit educational foundation that provides educational resources and training for teachers to use agriculture as an integration theme throughout kindergarten through grade 12 curricula.

A nonprofit organization dedicated to preserving coal's role as an economical, efficient, and environmentally compatible source of electricity.

Center for Renewable Energy and Sustainable Technology

777 North Capitol Street, N.E., Suite 805
Washington, DC 20002
(202) 289-5370
Fax: (202) 289-5354
E-Mail: info@crest.org

CREST operates an on-line clearinghouse of renewable energy and energy efficiency information called SOLSTICE, which provides free electronic access to documents, images, directories, and other databases around the world. SOLSTICE can be accessed via Gopher ("gopher.crest.org"), FTP (ftp "solstice.crest.org"), and World Wide Web ("http://solstice.crest.org/"). CREST is also developing multimedia educational CD-ROMS about renewable energy, efficiency, and global climate change, and is opening a renewable energy resource center in Washington, DC, sometime in 1995. Publishes a free quarterly newsletter, *Resource*, which details the Foundation's activities and renewable energy activities. Available on-line and by mail.

27

Central Hudson Gas & Electric Corporation

Educational Services
284 South Avenue
Poughkeepsie, NY 12601
(914) 486-5527

Provides free classroom materials, posters, videos, assembly programs for students in kindergarten through grade 6, computer software, power plant tours, and workshops to all teachers **within its service territory**. Write or call for your free teacher's catalog/calendar. 28

The Center for Renewable Energy and Sustainable Technology (CREST), a project of the nonprofit organization the Solar Energy Research and Education Foundation, is dedicated to promoting renewable energy and sustainable development using advanced communications and computer technology.

An investor-owned electric and gas utility serving parts of eight counties in the Hudson Valley Region of New York State.

Channing L. Bete Co., Inc.
200 State Road
South Deerfield, MA 01373-0200
1-(800) 628-7733
Fax: (413) 665-2671

Utilities' service
area. **31**

Offers *My Book* series, designed for students in kindergarten through grade 1; *Coloring and Activities Books* for students in grades 1 through 3; and *Information and Activities Books* for students in grades 4 through 6. "Experiment Kits" on Magnetism, Conservation, Energy, and Electricity, all for students in grades 4 through 6, are available. Each kit contains 35 Student Workbooks and 1 Instructor's Guide. Energy and Environmental posters for classroom and public display are also available. Contact your local utility for availability or call the publisher directly. **29**

City Public Service (CPS)
Consumer Information Division
P.O. Box 1771
San Antonio, TX 78296-1771
(210) 978-2833
Fax: (210) 978-4327

Provides educational services free of charge to schools **in the CPS service area**. Services include classroom presentations, workshops for educators, a videotape library, power plant tours, and curriculum supplements for use in kindergarten through grade 12. A free *CPS School Energy Education Program Catalog* is available upon request. **30**

City Utilities of Springfield
301 E. Central
P.O. Box 551
Springfield, MO 65801-0551
(417) 831-8311
Fax: (417) 831-8802

Provides educational services free to instructors **in areas served by City Utilities**. Offers tours to power plants and water treatment plants, classroom presentations, speakers' bureau and purchased curriculum materials for students in kindergarten through grade 12. City Utilities also has special units, "The Planet Water" and "Are You Being Safety Conscious Around Electricity." Single copies are available to teachers outside City

A publishing firm specializing in Scriptographic Booklets. Most utilities provide them to schools **in their service territories** free of charge; however, the booklets are available from the publisher for a fee.

science activity book for students in kindergarten through grade 6; *Sharing Science with Children*, a survival guide for visiting scientists and engineers in the classroom; and *Sharing Science: Linking Students with Scientists and Engineers*, a survival guide for teachers. 32

A municipally owned natural gas and electric utility serving substantially all of Bexar County and small portions of seven adjacent counties.

Conservation Districts Foundation

408 East Main
P.O. Box 855
League City, TX
77574-0855
(713) 332-3402
1-(800) 825-5547

A municipal utility serving the metropolitan area of Springfield with electricity, natural gas, and water.

Colorado School of Mines

Teacher Enhancement Program
Office of Special Programs
and Continuing Education
Golden, CO 80401

1-(800) 245-1060 x 3303<P8> (in Colorado)<P255>

1-(800) 446-9488 x 3303<P8M> (outside Colorado)<P255D>

Fax: (303) 273-3314

Provides conservation, agricultural, and environmental videotapes, slide presentations, and 16mm films to individuals and organizations on a rental basis. Free catalog lists titles and describes rental procedures. 33

Provides three times a year a free catalog of course listings specifically for teachers. Courses carry graduate-level recertification credit and offer content-based instruction; practical hands-on experience; and, in some cases, extensive field trips. Offers for a nominal fee *What's Under Your Feet*, an earth

A State college of science and engineering teacher enhancement program offering coursework and resources for primary school and secondary school educators in science, energy, math, technology, and the environment.

A foundation of the National Association of Conservation Districts. Features a natural resource-oriented audiovisual library.

**Consolidated Edison Company of
New York, Inc.**

Educational Programs
4 Irving Place, Room 1625S
New York, NY 10003
(212) 460-6905

An investor-owned electric, gas, and steam utility serving New York City and Westchester County.

Con Edison's Educational Programs presentations and materials, **available free only in New York City and Westchester County**, provide customers with information on energy efficiency and conservation; safety; the basics of electricity; and the economic and environmental relationship of energy supply, delivery, and use. The wide-ranging educational services are aimed primarily toward educators and students; however, programs can be tailored to meet the needs of other organizations. Write or call for a free catalog listing available materials. **34**

The Consumer Aerosol Products Council

1201 Connecticut Avenue, N.W.,
Suite 300
Washington, DC 20036
(202) 833-9471

Supported by companies that manufacture and market aerosol products, the Consumer Aerosol Products Council was formed to provide information on aerosols and environmental issues for consumers, government decisionmakers, and educators at all levels.

Offers "The Aerosol Adventure Kit" for students in grades 5 through 9. Included is a 13-minute video that uses an everyday aerosol can to demonstrate some basic science principles—pressure, states of matter, and atmospheric science. Designed with humor and special effects in mind, the video, along with accompanying teacher and student guides, classroom poster, and sample aerosols, makes the complex issues of ozone depletion and environmental awareness memorable and fun for a middle school-age audience. "The Aerosol Adventure Kit" is available free through Modern Talking Pictures. To order, call Modern's toll free number 1-(800) 243-6877 and request Digest #K-0178. **35**

Culver Company
316 Merrimac Street
Newburyport, MA 01950
1-(800) 4-CULVER
Fax: (508) 463-1715

A developer and publisher of educational materials about energy and related topics.

Produces booklets, together with videos, posters, and program enhancement items, for children and adults. Teacher discussion guides are available. Utilities purchase and distribute these materials in their service areas; other organizations may purchase them directly. **36**

Dayton Power & Light Company
School Programs
1065 Woodman Drive
Dayton, OH 45432
(513) 259-7634
Fax: (513) 259-7813

An investor-owned electric, steam and natural gas utility that serves 464,000 customers in 24 counties of a 6,000-square-mile area in West Central Ohio.

Provides free educational programs and resources for students in kindergarten through grade 12 **to schools within the utility's service area.** Programs include a customized computer software program that teaches electric and natural gas safety; an energy conservation program in which boy scouts and girl scouts can earn an energy awareness patch; science fair kits for teachers and a recognition event for top science fair projects; workshops to provide educators with energy-related information and resources; power plant and energy museum tours; and classroom presentations. Materials provided include booklets, videos, posters, student handbooks, and teacher's guides with classroom activities.

37

Denver Earth Science Project

Office of Special Programs & Continuing
Education

Colorado School of Mines
Golden, CO 80401

1-(800) 245-1060 x3038 <P8>(in Colorado)<P255>

1-(800) 446-9488 x3038 <P8>(outside
Colorado)<P255>

Fax: (303) 273-3314

E - M a i l :
<P9.5M>jproud@flint.mines.colorado.edu<P255D>

Provides a series of educational "Modules" addressing a range of earth science topics being developed by trained curriculum development teams composed of experienced earth science teachers and practicing scientists. The hands-on student activities included in each module incorporate real data and follow a problem-solving approach. Each module integrates mathematics, geography, economics, and social and environmental issues with basic earth science concepts. Available for a fee are the following four modules: "Oil and Gas Exploration" (grades 7-12); "Ground Water Studies" (grades 7-9); "Paleontology and Dinosaurs" (grades 7-9); and "Energy-A Closer Look at Oil and Gas" (grades 4-6). Each module includes a teacher resource kit which includes a teacher/student notebook, maps, audio-visual materials, posters, oil samples, ground water models, etc. Teacher training is available and highly recommended. Call to find out the location of the nearest training site. **38**

A teacher enhancement program, in partnership with corporations, Federal agencies, school districts, and professional organizations, which provides innovative earth science curriculum materials for use in kindergarten through grade 12 and teacher training.

East Ohio Gas

Consumer and Educational Affairs Department
P.O. Box 5759
Cleveland, OH 44101-0759
(216) 736-6205
Fax: (216) 736-5323

A natural gas utility serving over one million customers in a 23 county area throughout northeast and southeast Ohio.

Promotes energy awareness in the community and emphasizes the importance of natural gas. Provides educational resources free of charge to primary school and secondary school educators **in the areas served by East Ohio Gas**. A free *Educational Resources & Awards Catalog* offers a wide variety of programs and an extensive media library. New topics include natural gas vehicles, math minigrants and parental resources. **39**

Edison Electric Institute (EEI)

Order and Billing
701 Pennsylvania Avenue, N.W.
Washington, DC 20004-2696
1-(800) 334-5453
Fax: 1-(800) 525-5562

An association of investor-owned electric utility companies.

Suggests that you first contact your local electric utility. Many utilities have educational programs about energy and the environment for schools. EEI's publications catalog is free. Other publications are available for a fee. **40**

Edison Plaza Museum

P.O. Box 3652
Beaumont, TX 77704
(409) 839-3089
Fax: (409) 839-3077

Contains the largest collection of original Edison artifacts west of the Mississippi River. All eight major fields of Edison's achievement are represented. The museum is housed in the historic Travis Street Substation—the first building to distribute electric power in east Texas. Exhibits include past, present, and future energy technologies. Free guide book, brochure, and children's book are available upon request and can be mailed anywhere. **41**

Established in 1982 by Gulf States Utilities Company as a non profit, educational institution to focus on the inventions of Thomas A. Edison and show how the electric industry has expanded on his patents to improve the quality of life.

Educational Development Specialists

5505 E. Carson Street, Suite 250
Lakewood, CA 90713
(310) 420-6814
Fax: (310) 420-1485

Offers the Think Earth education program nationwide to sponsors who give the program to schools. This award-winning program interrelates air, land, water, and energy topics into a comprehensive environmental education school pack. It contains units for students in kindergarten through grade 6, plus a fully animated video. A free catalog is available on the program. **42**

Energy and environmental education program developers and distributors.

Energy Source Education Council

Program Distribution Office
5505 E. Carson Street, Suite 250
Lakewood, CA 90713
(310) 420-6814
Fax: (310) 420-1485

Has an Energy Source Education Program that is financially supported by member organizations (mostly utilities) from the private sector. Material is sold to the utility companies who then distribute it at no charge to classrooms **in their service areas**. Material to others is available for a fee. A free catalog is available. **43**

A nonprofit organization involved in developing and distributing quality energy educational programs.

Enterprise for Education

1316 Third Street, Suite 103
Santa Monica, CA 90401
(310) 394-9864
Fax: (310) 394-3539

Publishes *Energy 90s*, the Energy and Environmental *Skill Builder* series, and the *Math at Work* series. Products range from in-depth, semester-long programs to short, one- to five-classroom period lessons on energy and environmental issues. All publications are printed in full color and include up-to-date information and an abundance of science experiments and classroom activities.

The *Skill Builder* series, 8- and 16-page booklets, comprises the following topics:

- **Environmental Skill Builders**—"Using Our Resources Wisely" (grades 2-4); "The Greenhouse Effect and Global Warming" (grades 6-12); and "Percentages Help an Environmental Engineer" (grades 6-8)
- **Conservation Skill Builders**—"Efficiency of Electric Appliances" (grades 6-10); "Climate and Comfort" (grades 6-12); and "Is Efficiency the Best Energy Source?" (grades 9-12)
- **Nuclear Energy Skill Builders**—"Nuclear Reactor" (grades 8-12); "The Atom and Radiation" (grades 6-12); and "Nuclear Fuel Cycle" (grades 8-12)
- **Fossil Fuel Skill Builders**—"Coal: The Once and Future King?" (grades 6-9); "Natural Gas" (grades 6-12); "Geology of Oil" (grades 6-12); and "Refining Oil" (grades 8-12)
- **Electricity Skill Builders**—"Mouse House Surprise," a 32-page Teacher BIG book and student little book (grades K-2); "Energy Transformations" (grades 4-9); "Generating Electricity" (grades 5-9); "Sources of Electricity"

(grades 5 - 9) ;
"Demand f o r Electricity" (grades 6 - 9) ;
"Workin g With Energy Graphs" (grades 6 - 12) ;
"Measur i n g Helps a n Electricity c i a n Wire an Apartme n t " (grades 4 - 6) ;
a n d "Electr icity f r o m Wind , Water & Sunligh t " (grades 4 - 8) , which include s a lab activit y kit.

When available, Enterprise's materials are provided free of charge by most utilities. Materials also may be purchased directly from the publisher. **44**

Offers booklets for primary school and secondary school science classes FREE from most utilities.

**Environmental
Education
Associates, Inc.
(EEA)**

1211 Connecticut
Avenue, N.W.,
Suite 812
Washington, DC
20036
(202) 296-4572
Fax: (202)
452-9370

Develops educational programs to help citizens, educators, businesses, and government agencies address a variety of environmental issues. One of EEA's programs, Borrowed Time, includes an interdisciplinary school curriculum and training program that is designed to help intermediate and secondary teachers examine, understand, and teach today's complex waste management issues. The Borrowed Time workshops are presented nationally through sponsorship, and free registration includes a complementary copy of curriculum materials. The Borrowed Time materials and other EEA materials are also available for

purchase. To be added to the workshop database, educators should contact EEA by phone or mail. 45

An environmental services firm based in Washington, DC.

Environmental Hazards Management Institute (EHMI)

10 Newmarket Road
P.O. Box 932
Durham, NH 03824
(603) 868-1496
Fax: (603) 868-1547

Provides innovative, educational products and programs that empower individuals to take conscious steps toward reducing their environmental impact. Offers a number of educational products for students in kindergarten through grade 12. Included is *EHMI Earth Express™*, a newsletter for elementary school-age children designed to foster awareness and understanding of environmental issues. Also offered for this age level is Kids Leading the Way in Energy Conservation™, an empowering, color-in poster. The "Automobile Case for the Environment™" series of multimedia, educational kits is offered for high school students. There is a fee for all educational materials, with quantity order discounts. A free catalog is available. 46

A nonprofit nonpartisan organization dedicated to resolving environmental problems through education and relationship-building.

Exxon Company, U.S.A.
Public Affairs
P.O. Box 2180
Houston, TX 77252-2180
(713) 656-8758
Fax: (713) 656-6267

Offers a collection of scientific reports and brochures documenting the environmental recovery of Prince William Sound, Alaska, following the 1989 Valdez oil spill. Also available is the 22-minute video "Scientists and the Alaska Oil Spill." The materials are free, but quantities are limited. **47**

Flexible Packaging Educational Foundation

1090 Vermont Avenue, N.W., Suite 500
Washington, DC 20005
(202) 842-3839

Offers *Less Waste in the First Place: Six Lessons on Packaging, Flexible Packaging and Source Reduction*, a lesson guide on packaging, free to educators. Appropriate for students in grades 4 through 10, the lessons discuss the historic, scientific, social, and environmental considerations involved in the design, development, and disposal of packaging. Included are instructions for a "hands-on" packaging design contest for students and on how to involve the local community. The lesson plan also features a listing, which can be used as a handout, of other resources for information or further reading and an explanation of common myths surrounding packaging and garbage. **48**

Oil company department that responds to public inquiries pertaining to energy and environmental issues.

A trade association of manufacturers and suppliers of flexible (or nonrigid) packaging, supporting educational efforts on the purpose of packaging and its role in the first "R" of waste management-reduction.

Florida Energy Office

Department of Community Affairs
2740 Centerview Drive
Tallahassee, FL 32399-2100
(904) 488-2475

The State's point of contact on all energy-related matters, issues, and programs.

Focuses on solar energy and conservation. "Renewable Energy Activities for Middle Grades," lesson plans for students in grades 6 through 8, is available. *Solar and Energy Conservation Projects for Students* is available to elementary school teachers. Another publication, *Energy Research Projects Guide*, assists students in their selection of an energy topic for science fair projects. Single copies are free of charge.

49

Florida Power & Light Company

Energy Encounter
P.O. Box 128
Ft. Pierce, FL 34954
(407) 468-4111

A regulated investor-owned utility serving more than 3 million customers in Florida.

Provides limited free energy educational resources **within the Florida Power & Light (FPL) service area**. Sponsors an electrical safety poster contest for elementary and middle schools. Other services include a speakers' bureau, special environmental education presentations on manatees and sea turtles, and a series of environmental education pamphlets. FPL operates the "Energy Encounter" visitors' center located at the St. Lucie Nuclear Power Plant on Hutchinson Island. The center is open to the public and offers physical and environmental science presentations to school groups. Classroom presentations meet the science objectives for the State of Florida. FPL also offers environmental tours of the Barley Barber Swamp and Turtle Beach Nature Trail. 50

Florida Solar Energy Center (FSEC)

300 State Road 401
Cape Canaveral, FL 32920
(407) 783-0300

Offers (mostly) free publications on solar water heating, photovoltaics, energy-efficient buildings, transportation, and lighting. Education programs provide workshops and student information packets to students, teachers, and energy professionals. An energy/environmental package that emphasizes individual responsibility for the welfare of our environment was created at FSEC especially for primary school- and middle school-age children. It revolves around a character known as the Planet

Janitor<F128P8.5MJ242>Ø<F255P255DJ0>, and includes a Spanish-English edition of the *Planet Janitor Coloring Book* (copyright 1994), a full-color poster, and a video and companion activities book. These items are distributed for FSEC by EREC, the U.S. Department of Energy's Energy Efficiency and Renewable Energy Clearinghouse. For more information call EREC at 1-800-DOE-EREC (363-3732). 51

Foodservice & Packaging Institute, Inc.

1901 North Moore Street, Suite 1111
Arlington, VA 22209
(703) 527-7505

Fax: (703) 527-7512
Now offers three issue sheets—"Environment," "Sanitation," and "Lifestyle"—that explain the importance of foodservice disposable products to today's consumers. While written for foodservice managers, these informative single-page sheets are appropriate for middle school and high school students. Also, FPI's popular 1991 video package "Foodservice Disposables: Should I Feel Guilty?" is still available in limited quantities. The video, which explores environmental issues surrounding foodservice disposables, is appropriate for grades 6 through 12. Individual copies of FPI materials are free of charge to educators. Contact FPI to receive the price for larger quantities. 52

The energy institute for the State University System, FSEC's mission is to conduct research on alternative energy technologies, to ensure the quality of solar energy equipment, and to educate people about their energy options.

A nonprofit trade association for manufacturers, suppliers, and distributors of foodservice disposable products. These products consist of single-use cups, plates, bowls, bags, cutlery, trays, hinged-lid "clamshell" containers, and other paper, plastic, and aluminum items. Foodservice & Packaging Institute, Inc. (FPI) supports the environmentally responsible manufacture, distribution, use, and disposal of foodservice disposables.

Frey Scientific

905 Hickory Lane
Mansfield, OH 44905
1-(800) 225-3739
Fax: (419) 589-1522

Offers a general science catalog that includes over 75 pages of products for earth science and ecology study. Product line consists of books, charts and posters, videos and video discs, software, kits, games, manipulatives, general supplies and equipment, and more. Products are available for a fee; catalog is free of charge. **53**

A full-line supplier of educational materials, equipment, and supplies for science, designed for students from kindergarten through college.

A nonprofit educational organization serving teachers and students nationwide to increase awareness and understanding of geothermal energy.

Geothermal Education Office

664 Hilary Drive
Tiburon, CA 94920
(415) 435-4574
1-(800) 866-4436
Fax: (415) 435-7737

Provides free booklets, small posters, newsletters, and selected geothermal industry publications (some in class sets). Available for a fee are large posters, an elementary-level video with script and glossary, and a 90-page geothermal curriculum supplement for grades 4 through 8. The curriculum extensively covers the geology, history, and uses of geothermal energy, placed in the context of today's energy needs (included are copy-ready student information pages, science experiments; math, language, arts, and social studies activities; a glossary; and other suggested resources.) **54**

Global Issues Resource Center

Tri-C Eastern Campus East 1 Bldg.
4250 Richmond Road
Cleveland, OH 44122
(216) 987-2224
Fax: (216) 987-2053

For a fee, the Center provides to primary school and secondary school educators a variety of workshops that address a range of topics and emphasize interdisciplinary and hands-on strategies. The Energy Choices for the Future is provided to educators for grades 4 through 7. Teacher and student materials include a "Teacher's Guide and Resource Box." Subject-specific bibliographies (energy, environment, conflict resolution, global issues) are available for a nominal fee. 55

A nonprofit library and educational resource, in partnership with foundations, Federal agencies, and school districts, which provides innovative programs and teacher training focusing on global issues, energy, environment, and conflict resolution.

Hawaiian Electric Company, Inc.

Education & Consumer Affairs Division
900 Richards Street
Honolulu, HI 96813
(808) 543-7511
Fax: (808) 543-4420

Provides free teaching materials to educators in the areas served by Hawaiian Electric and its subsidiaries Maui Electric Company and Hawaii Electric Light Company. Services include classroom programs, career programs, resources for educators, certified workshops for educators, video, and classroom literature for kindergarten through grade 12. "Hawaii's Electric Century," an education module for Hawaiian history classes, is available for use in grades 4, 7, and 11. A free *Energy Education Catalog & Calendar* which lists all resources is available upon request. 56

An investor-owned electric utility serving the Hawaiian island of Oahu.

Houston Lighting & Power Company
Community Relations/Educational
Services
611 Walker
P. O. Box 1700
Houston, TX 77251
(713) 228-9211 or (713) 229-7579
Fax: (713) 220-5016

disseminate sound,
s c i e n t i f i c
information. 58

Provides free educational services to kindergarten through grade 12 educators **in the Houston Lighting & Power service area.** Services include classroom presentations, films, videotapes, publications, and activity booklets for students. Resources and newsletters for educators and teacher in-service training, as well as teacher workshops and field trips for continuing education credit, are also available. In addition, curriculum supplements are available on science and social studies topics and on electricity safety and fuel sources.

57

**Illinois Department of Energy
and Natural Resources**
Office of Coal Development and
Marketing
325 West Adams, Room 300
Springfield, IL 62704-1892
(217) 785-2800

Provides materials on coal production, distribution, usage, research, development, and demonstration of clean coal technologies. Two kits, one for students in kindergarten through grade 2 and one for those in grades 5 and 6, are available free of charge. A kit for students in grades 3 and 4 will be available September 1995. Resource materials and a "Kids, Coal and the Environment" video also are available free of charge while quantities last. Coal awareness and education efforts target the general public through the media, the schools, and special programs in an attempt to diffuse myths regarding coal and to

An investor-owned electric utility,
headquartered in Houston, serving a
5,000-square-mile area on the Texas Gulf
Coast.

A State coal program committed to the
continued and expanded use of Illinois' coal
resources in environmentally safe and
economically viable ways.

**Independent Petroleum Association
of America**

Information Services Department
1101 16th Street, N.W.
Washington, DC 20036
(202) 857-4760
Fax: (202) 857-4799

The national association representing independent crude oil and natural gas explorers/producers.

Provides, for a fee, an annual yearbook of statistics on the crude oil- and natural gas-producing States. *The Oil & Natural Gas Producing Industry In Your State* compiles exploration and production statistics for each producing State in an easy-to-use manner. The material is suitable for junior high and senior high school students. **59**

Indiana Department of Education

Office of Program Development
Center for School Improvement &
Performance
Room 229, State House
Indianapolis, IN 46204-2798
(317) 232-9139
Fax: (317) 232-9121

A State education agency that provides primary school and secondary school teachers with staff development programs and curricular assistance in environmental and energy education.

Provides energy, economics, and environmental curricular materials and workshops to kindergarten through grade 12 classroom teachers across Indiana. The *Energy, Economics, and the Environment* publication consists of case studies supported by classroom activities, actions, and issues. *Completing the Cycle-It's Up to Me* contains 55 interdisciplinary lessons that focus on recycling and the environment. This curriculum for kindergarten through grade 8 was written by classroom teachers from Frankfort Community Schools and Crawfordsville Community Schools. The Phase I booklet is designed for use in kindergarten through grade 3 and Phase II is for use in grades 4 through 8. A minimal charge will be assessed for each publication. A list of other available environmental and energy education materials is available upon request. **60**

Integrated Waste

Services Association

Two Lafayette Centre
1133 21st Street, N.W., Suite 205
Washington, DC 20036
(202) 467-6240
Fax: (202) 467-6225

IWSA and the U.S. Department of Energy's National Renewable Energy Laboratory offer *WasteWorld*, a middle school curriculum guide addressing environmental, economic, and energy-related issues associated with municipal solid waste management. This multimedia simulation presents a balanced view of source reduction, recycling, waste-to-energy, and landfilling, enabling students to research and recommend solid waste management plans for their community. The package includes a slide show, Macintosh interactive computer software, student activities, a teacher's guide, glossary, and supplementary research materials. Write or call for more information. **61**

Jacksonville Electric Authority (JEA)

21 West Church Street
Jacksonville, FL 32202
(904) 632-5200

Provides free energy educational resources (booklets, posters, kits, audio/visual materials, etc., for kindergarten through grade 12) to schools **within the JEA service area**. Services include student and teacher materials, speakers, power plant tours, teacher seminars with affiliates: Pelotes Island Preserve, Tree Hill, and the University of North Florida. A free fact sheet that describes the services and materials is available on request. **62**

Integrated Waste Services Association (IWSA) represents companies that use trash to produce energy as part of a community's integrated solid waste plans. Waste-to-energy facilities use waste to generate enough energy to power 1.3 million homes.

A municipal electric utility serving over 300,000 customers in Jacksonville, Florida, and vicinity.

**Jersey Central Power & Light
Company**

300 Madison Avenue
Morristown, NJ 07960
(201) 644-4298
Fax: (609) 971-4646

Provides free energy education resources for all grade levels **within the JCP&L service area**. Services available include a speakers' bureau, classroom presentations, and a free-loan video library. JCP&L also operates the Energy Spectrum energy education center located at the Oyster Creek Nuclear Generating Station in Forked River, NJ. The center is open to the public and admission is free. It contains a wide variety of energy-related exhibits and literature and offers class trips for students in grades 4 through 8. Other energy-related programs are available for civic organizations, scout troops and senior citizen groups with advance reservations. You can reach the Energy Spectrum by calling (609) 971-2100. **63**

Keep America Beautiful, Inc.

9 West Broad Street
Stamford, CT 06902
(203) 323-8987

Offers a wide variety of educational materials for use in kindergarten through grade 12. Items include *Waste in Place*, a curriculum supplement for educators of kindergarten through grade 6, which introduces children to responsible waste handling in over 30 hands-on lesson plans; and *Waste: A Hidden Resource*, a curriculum supplement for teachers for grades 7 through 12 that provides an overview of solid waste, encourages students' investigation and decisionmaking through role-playing in a mock crisis. Both are available for a fee. Other resources include *Plastics Recycling By The Numbers*, a classroom activity guide designed to teach students in grades 3 and 4 about plastic and its uses, the Plastic Container Coding System, and how to separate plastics for recycling; *Mister Rogers' Activity Book for Young Children*, which provides lessons on reuse and recycling; and "Pollution Pointers For Elementary Students," a one-page fact sheet describing 24 things children can do. These are available for a nominal fee. Materials catalog is

available free upon request. **64**
Headquartered in Morristown, NJ, and serves 13 counties throughout NJ. Jersey Central Power & Light Company (JCP&L) is a subsidiary of General Public Utilities Corporation, an investor-owned electric utility based in Parsippany, NJ.

A national nonprofit, public education organization dedicated to improving waste-handling practices in American communities.

Kids For A Clean Environment

(Kids F.A.C.E.)
P.O. Box 158254
Nashville, TN 37215
1-(800) 952-3223
Fax: (615) 333-9879

A nonprofit
children's
environmental
organization.

Provides free membership to children and teachers. Included with the membership is the membership guide *Our World, Our Future: A Kids Guide to Kids for a Clean Environment*, a membership certificate, and a subscription to the bimonthly newsletter *Kids F.A.C.E. Illustrated*. Material focuses on environmental topics and offers proactive projects that can be performed at home or at school. Their current project is the Kids International Earth Flag. Children may send in squares with their idea of a clean environment drawn or painted on them. For instructions, send a self-addressed stamped envelope to the above address. **65**

Kissimmee Utility Authority (KUA)

Office of Communications
P.O. Box 423219
Kissimmee, FL 34742-3219
(407) 933-7777
Fax: (407) 933-1761

A municipal
electric utility
serving over
38,000 customers
in Kissimmee,
Florida, and
vicinity.

Provides free energy educational resources (coloring books, booklets, calendars, posters, kits, audio/visual materials, etc., for use in kindergarten through grade 12) to schools **within the KUA service area**. Services include student and teacher materials, speakers' bureau, power plant and energy control center tours, and teacher seminars with neighboring utilities. A free brochure highlighting the services and materials is available upon request. **66**

The Learning Works

P.O. Box 6187, Dept. NEIC
Santa Barbara, CA 93160
(805) 964-4220
Fax: (805) 964-1466

A publishing firm specializing in children's educational books.

Publishes educational activity books for youth ages 4 to 17. Energy-related titles include: *Weather, Electricity, Environmental Investigations; Science Sampler; Primary Science Sampler; Earth Book for Kids: Activities to Help Heal the Environment; My Earth Book; and Likeable Recyclables.* In addition, stamps with environmental themes are available. These are available for a fee and may be ordered from school supply stores, bookstores, and the publisher. A free catalog is available upon request. 67

Mineral Information Institute

475 17th Street, Suite 510
Denver, CO 80202
(303) 297-3226

A nonprofit educational organization providing free resources and contacts to support classroom teachers. Also provides technical support to new and established earth science programs.

Provides minerals and energy information at no cost to teachers (cost involved to others). Materials include posters, lessons, activities, and referrals to other sources providing free or highly subsidized educational information. The purpose of all materials is to increase awareness that *Everything We Have and Everything We Use Comes From Our Natural Resources.* Sponsored and continues to support revisions of the high school science textbook *Global Science: Energy, Resources, Environment.* 68

Minnesota Department of Public Service

121 7th Place East, Suite 200
St. Paul, MN 55101-2145
(612) 296-5175
Fax: (612) 297-1959

Provides a wide range of energy conservation materials (primarily brochures and fact sheets) targeted to residential, commercial, and industrial audiences. This information is designed to encourage specific conservation practices and to increase public awareness of energy/environmental issues. Some of these free materials may be appropriate for students in grades 8 through 12. More direct education efforts are geared toward Minnesota home builders and community energy auditors. The Department's Energy Information Center has full-time staff to answer consumers' energy-related questions and to provide individualized advice as needed.

A State energy office which protects the public in utility rate and quality of service matters, provides a range of energy information, and promotes conservation and renewable resource development.

69

National Aeronautics and Space Administration (NASA)

300 E Street, S.W., Code FE
Washington, DC 20546
(202) 453-2194

Provides to educators free of charge: teachers guides with classroom activities, explaining NASA spaceflights and projects; NASA educational program information; NASA fact sheets; educational briefs; brochures; lithographs; wallsheets; nontechnical publications; and access to videotapes and slide sets for duplication. New NASA educational materials are listed triennially in a newsletter which is provided to educators. Educators can obtain subscription from NASA Educational Publications at the address listed above. 70

A Federal agency with programs to advance the Nation's education goals through expanding and enhancing the scientific and technological competence of all students and educators.

National Arbor Day Foundation

100 Arbor Avenue
Nebraska City, NE 68410
(402) 474-5655
Fax: (402) 474-0820

Provides free information on tree planting and care, including correctly planting windbreaks and shelterbelts, in the *Conservation Trees* and *Trees for America* brochures. Also has available for a nominal fee a book on *Trees for Fuelwood: A Step Toward Energy Diversity*, and, for elementary school- and middle school-age children, curriculum kits that stress the contributions made by trees and the importance of environmental stewardship. For samples of the free educational materials, including the *Celebrate Arbor Day!* booklet, and information about the curriculum kits, write or call to request an *Educational Materials Sampler*. 71

A nonprofit education organization dedicated to tree planting, conservation, and environmental stewardship.

National Association of Conservation Districts (NACD)

408 East Main
P.O. Box 855
League City, TX 77574-0855
(713) 332-3402
1-(800) 825-5547

Sponsors conservation education recognition programs for primary school and secondary school teachers as well as a poster contest for students. Publishes and distributes educational materials about conserving soil and water. Free materials include order forms, information about the contests, and single copies of the *Guide to Careers in Natural Resource Management*.

72

A nongovernmental nonprofit organization representing nearly 3,000 soil and water conservation districts and their State associations in the 50 States and U.S. territories. NACD serves its member districts as one voice, utilizing the force of local initiative and self-government, in the conservation and development of natural resources.

**National Center for Appropriate
Technology**

P.O. Box 3838
Butte, MT 59701
(406) 494-4572

Provides a curriculum guide of experiments, readings, projects, and resource referrals for a course in photovoltaic technology. These materials are targeted for junior high school and high school science classes. The curriculum guide is based on the Science, Technology, and Society (STS) model. **73**

National Corn Growers Association

1000 Executive Parkway, #105
St. Louis, MO 63141
(314) 275-9915
Fax: (314) 275-7061

Provides teachers with a free educational kit, "Corn - A Renewable National Resource," that includes materials that recognize corn as a reservoir of energy and a renewable substitute for products made from expendable fossil fuels. Components of the kit include 30 student tabloids, a video, poster, resource booklet, activity sheets, sample experiments, and corn products. Accompanying Teacher's Guides provide supplementary information and integration ideas. *The World of Corn* resource booklet, a statistical look at corn markets and trends, can also be requested separately and is provided free by contacting the association. **74**

A nonprofit organization founded in 1976 that works in the areas of energy conservation and renewable energy technologies, resource-efficient housing, and sustainable agriculture.

A nonprofit commodity organization representing more than 29,600 corn farmers and 24 State-affiliated corn grower associations.

National Cotton Council of America

Education Materials

1918 N. Parkway

Memphis, TN 38112

(901) 274-9030

Provides, for a nominal fee, a variety of print and audiovisual materials on cotton, including a videotape about the highly successful and environmentally sound "National Boll Weevil Eradication Program." The tape (primarily for grades 3 through 12) includes a 3-minute program aired on the "Today's Environment" television series on the Discovery Channel. The eradication program uses an integrated approach for eliminating one of the U.S. cotton's major pests, including plowing down cotton stalks after harvest, the strategic placement of traps baited with a pheromone (sex attractant) and the judicious application of crop protection products. **75**

A nonprofit commodity organization representing 35,000 producers and processors of raw cotton and dedicated to strengthening that industry's ability to compete effectively and profitably in fiber and oilseed markets at home and abroad.

**National Energy Education
Development Project (NEED)**

1920 Association Drive, Suite 414
Reston, VA 22091
(703) 860-5029
Fax: (703) 860-2903

Through hands-on experiments, museums, drama, art, and music, students reach out to family and community with energy awareness programs that they have developed themselves. Members receive a "Local Participation Kit" with dozens of teacher-tested activities and games, leadership training for students and teachers, a subscription to *Energy Exchange* magazine, and the opportunity to participate in an annual awards program to recognize energy achievement. New activities for 1994-1995 include: *Transparent Energy*-an introduction to the 10 major energy sources for middle schools; *Blueprint for Success*-elementary and intermediate levels-provides instructions and daily lesson plans to implement three- to six-week classroom energy units; *Animated Energy*-NEED's new stage production, featuring favorite cartoon characters, including Aladdin, Fred and Wilma Flintstone, Charlie Brown, and others; *Yesterday in Energy*-a museum that kids can make and present that shows the history of energy in America; and *Reach Out and Teach Someone*-community outreach projects for intermediate and high school students. **76**

A national network of students, educators, and leaders in government and industry dedicated to providing comprehensive energy programming.

National Energy Foundation (NEF)

Resources for Education
National Office
5225 Wiley Post Way, Suite 170
Salt Lake City, UT 84116
(801) 539-1406
Fax: (801) 539-1451

A nonprofit educational organization providing educational resources and training services to educators.

Offers a wide variety of energy, environmental, and mineral resource education materials for kindergarten through grade 12. New items include a comprehensive mineral resource and mining education curriculum, *Out of the Rock*; energy/environmental education activity guide *EcoAction Activities*; educational posters including *Out of the Rock*, *From the Mine to my Home*, and *Rocas Y Minerales* (Spanish version of existing *Rocks and Minerals*); *EcoWatt Benefits*, *Energy Management in and around Your School*, *Natural Gas and the Environment*, and *Natural Gas Vehicles*. NEF also offers in-service training programs so energy education materials can be properly used and integrated into the existing school curriculum. Materials can be purchased in single issues or in bulk. In-service programs are custom tailored to the school system and sponsoring agency budget requirements. Materials catalog is available free upon request. 77

National Geographic Society

Educational Services
1145 17th Street, N.W.
Washington, DC 20036
1-(800) 368-2728
Fax: (301) 921-1575

A nonprofit organization.

Provides educational materials designed for the kindergarten through grade 12 earth, physical, and environmental science curriculum. Materials include filmstrips, videos, books, learning kits, interactive videodiscs, and CD-ROMS. The National Geographic Kids Network, a telecommunications-based science curriculum for elementary school-grade levels, is also available. Free catalogs are available upon request. 78

National Propane Gas Association

1600 Eisenhower Lane, Suite 100
Lisle, IL 60532
(708) 515-0600
Fax: (708) 515-8774

Provides environmental, safety, and propane industry information in fact sheets, a coloring book, and an activity book. Also available are the Energy Costs Comparison Calculator and four propane gas student education kits. The propane gas student education kits are designed for use in kindergarten through grade 3; in grades 4 through 6; in junior high school; and in high school. 79

A national trade association comprising 3,300 companies representing all aspects of the propane industry.

National Rural Electric Cooperative Association

Communications Department
1800 Massachusetts Avenue, N.W.
Washington, DC 20036
(202) 857-9543
Fax: (202) 857-9791

Provides educational booklets and pamphlets aimed at junior and senior high school students (as well as adults). Publications include *History of Rural Electrification*; *Energy and Electricity* (includes a home safety audit); *Facts About America's Rural Electric Systems*; and *Occupations in Rural Electrification*. Publications are for sale. An order form for the materials is available upon request. 80

A service organization, based in Washington, DC. Represents the Nation's 1,000 nonprofit consumer-owned rural electric systems, which provide electric service to more than 25 million people in 46 States.

National Science Foundation

Office of Legislative and Public Affairs
4201 Wilson Boulevard, Room 1245
Arlington, VA 22230
(703) 306-1070
Fax: (703) 306-0157
E-Mail: nstw@nsf.gov

A Federal agency that supports basic science and engineering research and education.

National Science and Technology Week (NSTW), a collaborative effort of the National Science Foundation and corporate sponsors, features partnerships with community institutions (e.g., schools, libraries, museums, zoos); a special focus activity encourages parents to join their children in discovering science in their everyday activities and interests. Materials include an NSTW annual poster, "training activities" packets and "sharing science" brochures that alert the public to scientific discovery. Activities and materials promote: (1) the sharing of information on science curriculum and education trends; (2) developing "Science Day" activities; (3) organizing community-wide contests or events; and, (4) recruiting scientific and technical personnel to advise children about careers. **81**

National Science Resources Center (NSRC)

Arts and Industries Building, Room 1201
Washington, DC 20560
(202) 357-2555
Fax: (202) 786-2028

The NSRC is operated by the Smithsonian Institution and the National Academy of Sciences to improve the teaching of science in the Nation's schools.

Collects and disseminates information about exemplary science teaching resources, develops innovative science curriculum materials, and sponsors outreach activities to help school districts develop and sustain hands-on science programs. Relevant titles include: *Science for Children: Resources for Teachers*, an elementary science resource guide; *Electric Circuits, Magnets and Motors*; and *Ecosystems*, inquiry-centered curriculum units in the Science and Technology for Children (STC) elementary science program. **82**

National Science Teachers Association

Publications
1840 Wilson Boulevard
Arlington, VA 22201
(703) 243-7100
Fax: (703) 243-7177

Publishes educational products and activity books for students from kindergarten through college. Relevant titles include: *Earth: The Water Planet; Water, Stones & Fossil Bones; Ten-Minute Field Trips; Energy Sources and Natural Fuels;* and *Taking Charge: An Introduction to Electricity*. These books are available for a fee. A free catalog is available upon request. **83**

National Wildlife Federation

8925 Leesburg Pike
Vienna, VA 22184-0001
1-(800) 432-6564
Fax: (703) 442-7332

Publishes *Your Big Backyard, Ranger Rick, National Wildlife,* and *International Wildlife* magazines for children and adults; produces environmental education activity series *NatureScope* for educators; and sponsors *National Wildlife Week Educator's Guide*. Call toll-free and ask for more information on our educational outreach programs. **84**

The Natural Gas Vehicle Coalition

1515 Wilson Boulevard, Suite 1030
Arlington, VA 22209
(703) 527-3022
Fax: (703) 527-3025

Acts as a clearinghouse for information on natural gas vehicles for members and the general public. General information packets and the *Member Business Guide*, a list of member equipment suppliers and the products and services they provide, are available free of charge. Also available for a nominal fee is "The Road to Clean Air," a 12-minute educational video featuring actress Lindsay Wagner describing the virtues of natural gas vehicles. **85**

The largest science teachers association in the United States, working to improve the quality of science education nationwide.

A nonprofit conservation education organization. The mission of the National Wildlife Federation is to educate, inspire, and assist individuals and organizations of diverse cultures to conserve wildlife and other natural resources and to protect the earth's environment in order to achieve a peaceful, equitable, and sustainable future.

A national trade association and commercialization organization supported by gas companies, natural gas vehicle equipment suppliers, local government agencies, and other companies committed to developing profitable, long-term markets for natural gas vehicles.

New York Power Authority

Nuclear Communications
123 Main Street
White Plains, NY 10601
(914) 681-6822

Provides free educational programs and resources for primary school and secondary school educators in New York State. Maintains four visitor centers that conduct educational programs, including site tours. Resources include computer software simulating producing and distributing electrical power for grades 6 through 8; videos on energy and the environment; programs such as "Make Your Home a Castle," an energy efficiency kit for grades 4 through 6; and literature to support energy education. Opportunities for teachers include graduate-level Institutes in Energy Education, Science/Technology/Society workshops, business-education partnerships, and a unique "loaned-teacher" program. For additional information, write to New York Power Authority, Education Programs, 99 Washington Avenue, Suite 1950, Albany, NY 12210, or call (518) 427-6580. 86

New York State Geological Survey

3136 Cultural Education Center
Albany, NY 12230-3136
(518) 474-5816

Provides free educational leaflets for both students and teachers for kindergarten through grade 12. Provides a limited number of honoraria for college-level geological research in New York State. Conducts workshops and classes in geological sciences through the New York State Museum in Albany, NY. Produces geological maps and reports for both professionals and the general public. A catalog of publications is available free upon request. 87

The New York Power Authority's mission is to furnish the people of New York State with lower-cost electricity.

The mission of the New York State Geological Survey is to make services available to all agencies and people of New York State; conduct geological research, and cooperate with agencies of other States, the Federal Government, educational institutions, and industry in the discovery, analysis, and dissemination of geological information.

Northeast Utilities

Community Relations-Educational Programs
P.O. Box 270
Hartford, CT 06141-0270
(203) 665-2752
Fax: (203) 444-4283

An investor-owned electric utility serving Connecticut, western Massachusetts, and New Hampshire.

Provides educational services free to educators and organizations **in the areas served by Northeast Utilities**. Offers visits to information centers, tours, classroom presentations, nature trails and environmental education, speakers' bureau, safety presentations, film/video- and computer software-lending library, energy/nuclear energy curriculum and related literature, teacher workshops, and teaching kits. Booklets and posters for kindergarten through grade 12 are available. Also has pamphlets on home appliances, insulation, heating and cooling, and weatherization.

Connecticut Yankee Information & Science Center

362 Injun Hollow Road
Haddam Neck, CT 06424-3099
(203) 267-9279
1-(800) 348-INFO (CT ONLY)

Millstone Information & Science Center

278 Main Street
Niantic, CT 06357
(203) 444-4234

1-(800) 428-4234 (CT ONLY)

Northfield Mountain Recreation & Environmental Center

R.R. 2 Box 177
Northfield, MA 01360
(413) 659-3714

Public Service of New Hampshire

1000 Elm Street
P.O. Box 330
Manchester, NH 03105
(603) 669-4000

The Science & Nature Center at Seabrook Station

Box 300, RT 1
Seabrook, NH 03874
(603) 474-9521, Ext. 2727
1-(800) 338-7482 (NEW ENGLAND ONLY)

**Northern Indiana Public Service
Company**

Corporate Communications Department
ATTN: Educational Services
5265 Hohman Avenue
Hammond, IN 46320
(219) 647-6215

Provides, free to primary school and secondary school educators **within its service territory**, power plant tours, films, videos, publications, activity booklets, and, upon request, a *Teaching Resources Catalog*. **89**

Northern States Power Company

Community Development Department
414 Nicollet Mall (RS4)
Minneapolis, MN 55401
(612) 330-6677<P8M> (work-based learning)<P255D>
(612) 330-6538<P8M> (speakers<P255D>)
(612) 330-6048<P8M> (tours<P255D>)

Provides educational services free to educators **in the areas served by Northern States Power Company**. Offers visits to two nuclear plant training centers and Minnesota's largest coal-fired plant; environmental education, speakers' bureau, job shadowing, and a work-based learning program. **90**

Nuclear Energy Institute

1776 I Street, N.W., Suite 400
Washington, DC 20006-3708
(202) 739-8000

Provides a wide variety of publications on nuclear energy issues, including the benefits of electricity generated by nuclear power, public opinion data on nuclear energy, and statistical data on nuclear energy. Complimentary packets of material are available for students and teachers. A complimentary booklet on nuclear energy is available to the general public. For more information, contact the NEI Publications Office. **91**

A regulated natural gas and electric public utility serving the northern third of Indiana.

An investor-owned electric and natural gas utility serving parts of Minnesota, Wisconsin, North Dakota, South Dakota, and upper Michigan.

Based in Washington, DC, the Nuclear Energy Institute (NEI) is a trade association of the nuclear energy industries.

Nuclear Information and Resource Service

1424 16th Street, N.W., Suite 601
Washington, DC 20036
(202) 328-0002
Fax: (202) 462-2183
E-Mail: nirsnet@aol.com

A nonprofit
information
clearing-house.

Furnishes fact sheets on nuclear waste, safety, general information, and alternative energy. Single copies are available. Free brochures available include: *10 Basic Questions About Nuclear Power and Nuclear Power? Consider the Alternatives. The NIRS Energy Audit Manual: How to Audit Campus & City Buildings*, also available for a fee, includes chapters on lighting efficiency, heating, and air conditioning, designed to help students calculate energy and cost savings for their school (high school and above). Current information on nuclear industry and events is available, as well as a catalog of related articles. **92**

Omaha Public Power District

Consumer Relations Department
444 South 16th Street Mall
Omaha, NE 68102-2247
(402) 636-3747
Fax: (402) 636-3922

A public utility
serving the
electric needs of
customers in
eastern Nebraska.

Provides educational services free of charge to schools **in the utility's service area**. Services include classroom programs and speakers, career planning information, films/videos, tours of power plants and other facilities, and literature for students and teachers in all grades. Also provides information on Omaha Public Power District's Buddy Alert and Safetysaurus Programs. All materials available upon request. **93**

Pennsylvania Power & Light Co.

Energy Education Coordinator, A9-2
Two North Ninth Street
Allentown, PA 18101-1179
(610) 774-6914

F a x : (610) 774-5746

Provides free energy education teaching materials to educators **in the utility's service area**. Materials include kindergarten through grade 12 curriculum units (teacher workshops required), Nuclear Energy Seminar for Teachers (NEST: worth 3 continuing education credits), Teacher Environmental Awareness (TEA) workshops, electrical safety programs (including a student poster contest), a minigrant program for teachers (up to \$500 funding), *Energy in Education* newsletter, College Energy Debate program, Electric Vehicle teachers guide (grade 5 through 8), and *Electric and Magnetic Field* teachers guide (grades 7 through 12). Write or call for schedules of programs or for more information.

94

Polystyrene Packaging Council

1025 Connecticut Avenue, N.W.,
Suite 515
Washington, DC 20036
(202) 822-6424
Fax: (202) 331-0250

Offers *The Plastics and the Environmental Sourcebook*, an easy-to-use reference guide for teachers that includes descriptions of available materials involving plastics and the environment. Also offers age-specific classroom activities, prepared with the guidance of science teachers nationwide, that look at the role of plastics in our everyday lives. This is available free of charge. **95**

An investor-owned electric utility serving all or parts of 29 counties covering a 10,000-square-mile area in Central E a s t e r n Pennsylvania.

A nonprofit trade association dedicated to providing information about environmentally responsible methods of solid waste disposal for polystyrene and the growing number of polystyrene recycling programs nationwide. Polystyrene Packaging Council's membership includes manufacturers of polystyrene resin, polystyrene foam and rigid food service packaging, and polystyrene protective shape molded and loose-fill packaging.

Potomac Electric Power Company
PEPCO - Community Relations and
Educational Services
1900 Pennsylvania Avenue, N.W.
Washington, DC 20068-0001
(202) 872-2975
Fax: (202) 331-6366

An investor-owned
electric utility
serving the
Washington
metropolitan area.

Provides educational services free to
educators **in the areas served by PEPCO.**
Offers tours, puppet shows, classroom
presentations, youth projects, environmental
education, safety presentations, and
literature. Booklets and posters for students
from kindergarten through grade 12 are
available through the Customer Service
Department, (202) 872-2000. PEPCO also
provides pamphlets on home appliances,
insulation, heating and cooling,
weatherization, and solar energy. **96**

Public Affairs
Division of a
consumer products
company.

Procter & Gamble
Educational Services
P.O. Box 14009
Cincinnati, OH 45250-0009
(513) 945-8450
Fax: (513) 945-8979

Offers the free environmental education
teaching kit "Planet Patrol" for grades 4
through 6. Materials teach students how to be
a part of the solution to America's growing
solid waste crisis. The teaching unit
includes teacher's guide, student worksheets,
and classroom poster. **97**

The Nation's
source for
environmental
solutions.

Renew America
1400 16th Street, N.W., Suite 710
Washington, DC 20036
(202) 232-2252
Fax: (202) 232-2617

Promotes successful environmental programs to
foster their replication and expansion.
Publications available for purchase include:
the *Environmental Success Index*, a directory
of more than 1,600 verified programs; and
topic reports on various environmental topics.
Kids! Renew America is also available free of
charge. **98**

Safe Energy Communication Council

1717 Massachusetts Avenue, N.W.,

Suite 805

Washington, DC 20036

(202) 483-8491

Fax: (202) 234-9194

Offers a free poster with everyday suggestions on how to save the earth. Publications and graphics dealing with a variety of issues, including nuclear power, nuclear waste dangers, global warming, energy efficiency, and renewable energy are available for a nominal fee. Titles include: *MYTHBusters #7: Nuclear Reactor Safety*; *MYTHBusters #6: Energy Efficiency*; *Americans Speak Out on Energy Policy (poll)*; *Global Warming: What You Can Do*; *Clinton Charts New Course for U.S. Energy Policy*; and *Move Over Gasoline: Solar Electric Cars Are Coming*. Request a publications list for other titles. Also available are safe energy science project ideas. **99**

A national non profit coalition educating the public about safe, economical energy alternatives.

Science Screen Report

1000 Clint Moore Road

Boca Raton, FL 33487-2806

1-(800) 232-2133

Fax: (407) 241-0707

An ongoing secondary school-level videotape program that focuses on the most recent developments in science, technology, and engineering. Produced since 1970 with the active participation of the National Science Teachers Association, "Science Screen Report" (SSR) is designed to stimulate student interest in the challenges, rewards, and opportunities of pursuing scientific careers. More than 550 corporations currently sponsor SSR to 3,000 school districts nationwide. Tapes become the permanent property of the school system to allow repeated use year after year. **100**

The only videotape program made available to schools free of charge through corporate sponsors.

Science Service, Inc.

1719 N Street, N.W.
Washington, DC 20036
(202) 785-2255

Science Service, Inc., administers three youth programs. The International Science and Engineering Fair (ISEF) is a competition for students in grades 9 through 12. Students participate in their regional and/or State ISEF-affiliated fair. Two individual student projects and one team project of up to three students are chosen to participate in the ISEF. Participants are eligible for scholarships, scientific field trips, summer research internships, and equipment. The Westinghouse Science Talent Search (STS) awards \$205,000 in scholarships to 40 finalists. Top prize is a \$40,000 scholarship. Participants must be seniors in high school. Students submit a report of an independent research project in the sciences, official entry form, transcript, test scores, and teacher recommendations. Early December deadline for entry materials. For an official entry form and specific deadline, contact Science Service, Inc. Science Service, Inc., also publishes the annual *Directory of Student Science Training Programs for Precollege Students*. The directory lists programs and internships in the sciences for students in grades 9 through 12. Nearly one-third of the programs is specifically geared toward those groups traditionally underrepresented in the sciences, including women, African-Americans, Native Americans, Hispanics, physically challenged, and economically disadvantaged. To obtain a copy or to list your program, contact Science Service, Inc. **101**

Founded in 1921, a non profit scientific and educational organization that promotes scientific literacy, with special emphasis toward young people and, more recently, members of underrepresented groups.

SC Johnson Wax

Marketing Public Relations Department
1525 Howe Street
Racine, WI 53403
(414) 631-2960 (or) (414) 631-4709
Fax: (414) 631-3829

A family-owned,
g l o b a l
manufacturer of
products for the
home and workplace
with world
headquarters in
Racine, Wisconsin.

"Ozone: The Hole Story," a packet that includes a video and teaching materials developed for high school science classes, is available for a small fee. To order, call 1-(800) 243-6877. This packet presents the history and status of the use of chlorofluorocarbons, their possible effect on the thinning of the upper ozone level, and some practical solutions.

Also, offers "Smart Shoppers Crew," a packet that includes a poster and teaching unit developed for use with middle school students, free of charge to teachers who request on school letterhead. "Smart Shoppers Crew" provides critical thinking skill lessons and activities on label reading, delivery systems, comparison shopping, and environmental shopping.

Also offers "Living Planet," a packet that includes a video and teaching unit developed for middle school and high school classes to help students understand and apply the principles of sustainable development. "Living Planet" is available free of charge while supplies last. Order by sending a written request on school letterhead to the above address.

Shell Oil Company
External Affairs
P.O. Box 2463
Houston, TX 77252-2463
(713) 241-6161

Offers *Oil*, a booklet describing the origin of oil, how it is produced and converted into thousands of products, and how it is transported to customers around the world. Also available are *A Story of Achievement*, a brief history of Shell Oil Company, and *Let's Collect Rocks and Shells*. These booklets are free of charge, but quantities are limited.
103

**Simon and Schuster Children's
Publishing Division**
Educational Marketing
866 Third Avenue, 5th Floor
New York, NY 10022
(212) 702-3771

Offers a wide-variety of energy, science, and environmental books from 11 imprints, including such titles as: *Nuclear Energy* by Pringle; *Understanding Radioactivity* by Milne; *Weather Forecasting* by Gibbons; *Fireflies!* by Brinckloe; *The Big Storm* by Hiscock; and *Before the Sun Dies* by Gallant. Provides free paperback and backlist catalogs and teachers resource guides.

104

SME Foundation
P.O. Box 625002
Littleton, CO 80162-5002
(303) 973-9550
Fax: (303) 973-3845

Offers both free and for-sale materials including classroom resource guides, posters, videos, and computer programs. Also able to provide teachers with contacts among SME members in most geographic locations who are willing to help in teaching about minerals and mining. **105**

Oil company department that responds to public inquiries pertaining to energy and environmental issues.

A children's trade book publisher of both fiction and nonfiction titles for kindergarten through grade 12.

A nonprofit educational organization providing educational resources related to energy, minerals and mining. The Foundation's parent organization, the Society for Mining, Metallurgy & Exploration, Inc. (SME), is the worldwide professional society for mining engineers.

Smith College

Elm Street
Northampton, MA 01063
(413) 584-2700
Fax: (413) 585-2075

A private academic institution.

Offers the project *An Electricity Curriculum Based on Capacitor-Controlled Transient Lamp Lighting*, which reveals the physics of current propulsion. This high school electricity curriculum engages students in hands-on experimentation. It includes three instructional aids (*Introductory Workshop Guide*, *Classroom Resources Book*, and *Background Information File*) which enhance the teacher's own understanding of electric circuits and make the study of electricity enjoyable for students. This project was supported by the National Science Foundation.

106

Solar Energy Industries Association

122 C Street, N.W., 4th floor
Washington, DC 20001
(202) 383-2600
Fax: (202) 383-2670

A nonprofit national trade association which represents the photovoltaic and solar thermal manufacturers and component suppliers.

Publishes *Renewable Energy Fact Sheets*, which includes information and classroom activities. Also produces *Solar Science Activities*, which includes dozens of classroom activities for grades 5 through 9, and *Energy, Technology and Society*, which is geared for high school students and provides information on alternative energy technologies. All are available for a fee. A free publications catalog is available upon request. CD-ROM educational modules are available through its Solar Energy Research and Education Foundation. 107

Steel Recycling Institute
680 Andersen Drive
Pittsburgh, PA 15220-2700
1-(800) 876-7274

Provides materials for primary school and secondary school educators. Materials include *Nature's for ME*, a preschool workbook filled with recycling and nature-related interactive exercises; "YES I CAN!," a video and teacher's guide for grades 1 through 3; and *Cycles for Science*, a high school curriculum supplement for Biology, Chemistry, Earth/Life Science and Physics, and a community volunteer activities guide to support the program. Information and prices are available through order forms. Additional materials, such as activity sheets (black line masters), a coloring poster, and a wall poster are available. If responding in writing, please indicate grade level(s) for which materials or order forms are needed.

108

The Sugar Association, Inc.
1101 15th Street, N.W., #600
Washington, DC 20005
(202) 785-1122
Fax: (202) 785-5019

Offers Sugar Science: Photosynthesis to Food a computer software package that explains the processes of photosynthesis and respiration as well as the role of plants in the food chain. This interactive software also provides experiments on sugar's functional role in food processing, including yeast interaction (baking), preservation (jams and preserves) and freezing (ice cream). The program, available for a fee, was reviewed by the National Science Teachers Association and is available in the following formats: Apple IIe, Apple IIGS, IBM, Macintosh, IBM Novell and AppleShare. Accompanying the software is a teacher's manual that includes a user's guide for the software and explanations of the experiments, including objectives, additional data and definitions, and extension activities for students. Recommended for upper elementary/middle school students. **109**

An industry association dedicated to promoting and sustaining steel recycling across the country.

Established in 1943, the Sugar Association maintains an active role in informing the public about the role that sugar can play, in moderation, in a healthful diet. By creating public education programs with a variety of diet, health, nutrition and fitness materials, the Association has worked to dispel misconceptions about sugar as well as provide opportunities for continued scientific research.

Troll Associates

100 Corporate Drive
Mahwah, NJ 07430
(201) 529-4000
Fax: (201) 529-1862

A publishing firm
specializing in
children's books.

Publishes educational material for students from prekindergarten through grade 8. Includes a complete line of science materials relating to life, earth and physical sciences. Some of the energy-related titles are *Electricity; Energy and Fuels; Wonders of Energy; World of Weather; and Discovering Electricity*. Science Thematic Units are also available for children from prekindergarten through grade 6. Materials may be purchased from the publisher. Free catalogs are available upon request. **110**

Union of Concerned Scientists

Two Brattle Square
Cambridge, MA 02238-9105
(617) 547-5552
Fax: (617) 864-9405
E-Mail: ucsoutreach@ipc.apc.org

An independent,
n o n p r o f i t
organization of
scientists and
other citizens
concerned about
the impacts of
a d v a n c e d
technology on
society.

Focuses on global environmental problems, energy policy and technology, nuclear power safety, and arms control. Free brochures are available on a variety of topics, such as *Solar Power, Nuclear Power, How You Can Fight Global Warming, and Renewable Energy and Developing Countries*. Teachers can purchase a 100-page multidisciplinary guide to teaching renewable energy in grades 7 through 12, as well as a collection of eight posters on renewables and a renewable energy slide show. Other publications include books on renewable energy, transportation policy, and nuclear power safety. **111**

University of California-Los Angeles
Graduate School of Education
405 Hilgard Avenue
Los Angeles, CA 90025
(213) 825-4321

A State-run,
a c a d e m i c
institution.

This project involves secondary school master science teachers from the Los Angeles area in the creation of two cross-curricular, multilevel modules that focus on environmental science. Collaboration involves UCLA, area community colleges, and middle school and high school faculty. National Science Foundation support for this project began in 1993; some materials are still under development. **112**

University of Florida
Center for Economic Education
186 Norman Hall
Gainesville, FL 32611-2053
(904) 392-0971
Fax: (904) 392-7159
E-Mail: gcarr@nervm.nerdc.ufl.edu

A university
center responsible
for providing
e d u c a t i o n a l
materials to
teachers.

Provides curriculum guides for teachers. Available for a fee is the *Energy and Economics* (high school) and *Resources and Energy* (grades 2 and 3) curriculum guides, which are designed to give students a greater understanding of the connections between energy and economics. Bulk orders of 100 or more copies can be purchased at a discount. **113**

University of Illinois at Urbana-Champaign
School of Architecture --
Building Research Council (BRC)
1 East St. Mary's Road
Champaign, IL 61820
1-(800) 336-0616
Fax: (217) 244-2204

A nonprofit
information
clearing-house and
research center.

Publishes 8-, 12-, and 16-page booklets about how to make homes comfortable, healthy, and energy efficient to home owners and seniors in high school. BRC offers the following publications at a nominal fee: *Home Inspection*, which examines each home system-plumbing, electrical, etc., and provides a checklist for buying a home; *Lighting*, which focuses on task, security, and general lighting; *Energy Management*, which outlines practical management plans for summer and winter; *Insulating*, which focuses on how to know what type and how much insulation is needed; *Heating*, which is about the various kinds of heating systems and how to select a system; *Selecting Windows*, which explains window options and energy savings by selecting wisely; and, *Moisture Condensation*, which discusses how to keep moisture from making a home chilly and prone to water damage. *Energy Management* is available in Spanish. A free publications catalog is available upon request. A complete set of 27 booklets is available for instructors and home owners. Bulk rates are available. **114**

A State-run,
academic
institution.

University of Maryland-College Park
Physics and Astronomy Department
College Park, MD 20742
(301) 454-3311

Teacher enhancement opportunities were designed for middle school teachers in acoustics, optics, electricity, and Newton's laws. Manuals provide detailed discussion of a series of experiments which can be performed with selected apparatuses. National Science Foundation support for this project began in 1991; some materials are still under development. **115**

U.S. Consumer Information Center
Pueblo, CO 81009

Offers the free, quarterly *Consumer Information Catalog* containing listings of over 200 free and low cost Federal consumer publications on topics such as health, energy conservation, Federal benefits, money management, housing, child care, employment, small business, education, food and nutrition, and more. A free catalog is available by writing to: Free Catalog, Pueblo, CO 81009. Bulk copies are available to schools and nonprofit groups able to distribute 25 or more copies. **116**

Helps Federal agencies develop, promote, and distribute consumer information to the public through the ***C o n s u m e r I n f o r m a t i o n Catalog.***

U.S. Department of Agriculture

Forest Service
Rocky Mountain Forest and Range
Experiment Station
240 W. Prospect Street
Fort Collins, CO 80526
(303) 498-1500
(303) 498-1719 (PUBLICATIONS DISTRIBUTION)
Fax: (303) 498-1660

Provides copies of technical publications on ecosystem component interactions, resource management and protection, resource interactions, and people's values and interactions with ecological systems. Available publications include: *Distribution of Abandoned and Inactive Mines on Forest Service Lands* and *Conceptual Framework for Minerals Analysis in the RPA Assessment.* **117**

Forest Service Research is intended to serve society by developing and communicating the scientific information and technology needed to protect, manage, and use the natural resources of forests and rangelands.

U.S. Department of Commerce

National Oceanic & Atmospheric
Administration (NOAA)
Office of Public Affairs
14th & Constitution Avenue, N.W., Room 6013
Washington, DC 20235
(202) 482-6090

Provides free of charge to students, teachers, librarians, and the general public information about the earth's oceans and atmosphere including the topics of endangered marine mammals, severe and hazardous weather, NOAA weather radio, coastal management, civilian satellites, and global warming. Information about NOAA's educational programs, like the Teacher at Sea, is also available from this office. 118

U.S. Department of Education

ERIC Clearinghouse for Science, Mathematics,
and Environmental Education
1929 Kenny Road
Columbus, OH 43210-1080
(614) 292-6717
1-(800) 276-0462
Fax: (614) 292-0263
E-Mail: ericse@osu.edu

ERIC/CSMEE, sponsored by the Office of Educational Research and Improvement, U.S. Department of Education, has as its primary function the acquisition and dissemination of printed materials related to science, mathematics, and environmental education. The information is indexed and abstracted for inclusion in two monthly publications, *Resources in Education (RIE)* and *Current Index to Journals in Education (CIJE)*. *RIE* provides abstracts for a variety of educational materials; *CIJE* announces journal literature. In addition to acquiring and processing documents and journal articles, the ERIC/CSMEE staff produces digests and other documents. Digests are short publications (one page, front and back) on a single topic. Other publications include yearbooks, source books, reviews of research, instructional activity collections on broad topics, and collections of papers presented at national meetings. The Clearinghouse offers a variety of user services and maintains a full ERIC microfiche collection, *RIE* and *CIJE* reference collection,

and a library collection of materials related A Federal agency with programs to advance the Nation's science education goals by expanding and enhancing the scientific competence of all students, teachers, and the general public.

One of 16 ERIC clearinghouses, the ERIC Clearinghouse for Science, Mathematics, and Environmental Education (ERIC/CSMEE) develops, maintains, and makes accessible to the public the world's largest education-related database which includes over 850 items relating to energy education.

to the scope areas. Also provides a variety of electronic services on the Internet. A Gopher server can be accessed at the following address: gopher.ericse.ohio-state.edu and a World Wide Web server can be accessed at: <http://gopher.ericse.ohio-state.edu> **119**

P r o v i d e s
i n f o r m a t i o n
a b o u t
e d u c a t i o n
r e s e a r c h ,
s t a t i s t i c s ,
p u b l i c a t i o n s ,
a n d
d a t a t a p e s .

U.S. Department of Education

Office of Educational Research and
Improvement (OERI)
555 New Jersey Avenue, N.W.
Washington, DC 20208-5461
(202) 219-1513
1-(800) 424-1616

Publishes a series of *Helping Your Child* books for parents. Included is *Helping Your Child Learn Geography*, which helps children look at the world in which they live, the effects of the environment on the way in which towns have developed, and the effects humans have had on the environment that have made areas livable. *Helping Your Child Learn Science* helps children and their parents feel comfortable with scientific methods while they are having fun. Other topics in the series include *Math*, *History*, *Reading*, *Using the Library*, *Get Ready for School*, *Succeed in School*, *Responsible Behavior*, *Being Healthy and Fit*. All are available for a nominal fee. For a complete list of ordering instructions for all of the *Helping Your Child* books, write Helping Your Child List, OERI Education Information Branch, at the above address. Also available free of charge is the OERI Bulletin, a quarterly listing of publications, programs, statistics, and grants. Write to the above address to receive it. **120**

U.S. Department of Energy
Argonne National Laboratory
Division of Educational Programs
9700 South Cass Avenue
Argonne, IL 60439-4845
(708) 252-4114
Fax: (708) 252-3193

A DOE-funded
multipurpose
national
laboratory
providing programs
to promote science
careers and
improve science
education.

Argonne provides teacher research and training opportunities for science teachers for elementary school upper grades and high school. One program, the TRAC program, offers teachers an 8-week research experience at the Laboratory. A summer teacher enhancement program provides teachers experience with a scientific apparatus that is later delivered to the school via a van (Chicago area only). Teachers guides and videotapes for the PBS "New Explorers" series have been created by teams of scientists and teachers from DOE laboratories and museums around the Nation. The guides are designed to encourage students to consider science careers and to provide good science activities. Teachers in Chicago are eligible for workshops and class field trips. Teachers elsewhere can order videos and guides from PMI Films Inc. 1-800-343-4312, x359.

Also available on the Internet is a computer bulletin board for science teachers with an "Ask A Scientist" feature where scientists provide answers to various questions. The answers can be retrieved after a few days. A teacher exchange of ideas and some curricular materials are also part of the bulletin board. The bulletin board is free to teachers and can be reached via Telnet to newton.dep.anl.gov or via Mosaic through the Argonne Division of the Educational Programs Home Page. **121**

U.S. Department of Energy
Bonneville Power Administration
Community Education Program-CKPP
P.O. Box 3621
Portland, OR 97208-3621
(503)230-3709
Fax: (503) 230-4019

Participates in a broad range of education programs **in the BPA four-State service area.** Various programs, which are available for teachers and students from primary school through college, include math and science enhancements, hands-on learning, work-site mentoring and apprenticeships, competitions, environmental education, tutoring, and others. Works with several business, school, and government agency partnerships. Many employees volunteer each year for various programs. **122**

U.S. Department of Energy
Carbon Dioxide Information
Analysis Center (CDIAC)
MS-6335, Building 1000
Oak Ridge National Laboratory
P.O. Box 2008
Oak Ridge, TN 37831-6335
(615) 574-0390
Fax: (615)574-2232
Internet: cdp@ornl.gov

Provides reports and fact sheets, including a newsletter, *CDIAC Communications*, which describes CDIAC and DOE initiatives in global change research. *Trends 93: A Compendium of Data on Global Change*, a quick source of frequently requested data, is also available. *Glossary: Carbon Dioxide and Climate*, contains a glossary of CO₂-related terms and tables of information related to CO₂ and climate. These materials are suitable for middle school and high school students. All are free. Four-page *DOE Research Summary* briefs are available, as well as a PC model on global energy-CO₂ emissions. The *IEA/ORAU Long-Term Global Energy Economics Model with CO₂ and CH₄ Emissions* is a PC-version of a computer model package, suitable for high school and college students, with a number of variables to interactively produce CO₂ and CH₄ emission scenarios for 1975 through 2100. **123**

Bonneville Power Administration (BPA) is both an electric utility and a Federal agency within DOE. Established in 1937, BPA markets electric power from Federal dams and other energy resources in the Pacific Northwest. BPA employs over 3,500 persons in Idaho, Montana, Oregon, and Washington. The majority work in the Portland-Vancouver metropolitan area headquarters and control center.

A DOE-funded program that provides information support to the international research, policy, and education communities for evaluation of issues related to climate change.

U.S. Department of Energy

Clean Cities Hotline
P.O. Box 12316
Arlington, VA 22209
1-(800) CCITIES or (224-8437)
Fax: (703) 528-1953
E-Mail: hotline@afdc.nrel.gov

Provides implementation and technical information on the DOE's Clean Cities program. The program works to help communities convert to alternative-fuel vehicles through coordination planning. The Hotline provides general information on the Clean Cities Program, lists of involved cities and participants, as well as technical and regulatory information of use to Clean Cities, such as funding for alternative-fuel vehicles and information on the Clean Air Act and Energy Policy Act. The Hotline is in direct contact with the Clean Cities Program Director, as well as DOE regional offices and involved Clean Cities. The Hotline is available between 10 am and 6 pm, eastern standard time. The toll-free 800 number is available to callers in the United States only. **124**

U.S. Department of Energy

Energy Efficiency and Renewable
Energy Clearinghouse (EREC)
P.O. Box 3048
Merrifield, VA 22116
1-(800) DOE-EREC or (363-3732)
1-(800) 273-2955 (BULLETIN BOARD SERVICE)
Fax: (703) 893-0400
E-Mail: energyinfo@delphi.com

Provides information on the full spectrum of renewable energy and energy efficient technologies to consumers, teachers, and students. Maintains lists of organizations that will supply educators with energy-related booklets, audiovisual materials, software, bibliographies, project contacts, kits, and equipment. Publications appropriate for primary school and secondary school students are available. Teachers and librarians may request activity lists and bibliographies as well as background materials. All publications are free. **125**

The Clean Cities Hotline, sponsored by DOE, provides information on the Clean Cities Program - a voluntary and cooperative effort to promote alternative-fuel vehicles.

A DOE-funded energy information service responding to public inquiries on the use of renewable energy and energy conservation.

U.S. Department of Energy
National Alternative Fuels Hotline
P.O. Box 12316
Arlington, VA 22209
1-(800) 423-1DOE or (423-1363)
Fax: (703) 528-1953
E-Mail: hotline@afdc.nrel.gov

Provides information on vehicle conversion technology, refueling station locations and Federal alternative fuel programs. Free publications and data are available on alternative fuel technology, infrastructure development, legislative and regulatory changes, and other issues concerning the alternative transportation fuel industry. In addition, NAFH works directly with the National Renewable Energy Laboratory's Alternative Fuel Data Center (AFDC). Data on vehicle emissions, performance, fuel economy, maintenance and more are available through the AFDC. To learn more about alternative fuels and the AFDC, call NAFH at 1-(800) 423-1DOE.

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U.S. Department of Energy
National Energy Information Center (NEIC),
EI-231
Energy Information Administration
1000 Independence Avenue, S.W.,
Room 1F-048
Washington, DC 20585
(202) 586-8800
Fax: (202) 586-0727
E-Mail: infoctr@eia.doe.gov

Available free of charge is an Energy INFOcard, a laminated quick-reference card providing the most recent annual domestic and international energy data, and a booklet, *Energy Information Sheets*. The 23 one-page capsules cover such energy topics as petroleum, natural gas, coal, electricity, and renewable energy. Also available, for a small fee, is *Energy Facts*, a pocket-sized statistical reference providing brief facts on a variety of domestic and international energy data. Bulk orders of 100 or more copies can be purchased at a discount. **127**

The National Alternative Fuels Hotline (NAFH) is sponsored by DOE to assist the general public and interested organizations in improving their understanding about alternative transportation fuels.

NEIC is the information dissemination service for DOE's Energy Information Administration, which is responsible for the collection, analysis, and distribution of energy statistics.

U.S. Department of Energy

National Low Level Waste Management Program,
EM-32/TREV
Office of Environmental Management
Washington, DC 20585-0002
(301) 903-7177
Fax: (301) 903-7451

Provides general information on low level waste management through short fact sheets, a booklet answering often-asked questions concerning low level radioactive waste disposal, as well as brochures on what constitutes commercial low level waste, concepts for disposal of low level waste, and low level radioactive waste basics. **128**

U.S. Department of Energy

Office of Civilian Radioactive
Waste Management, RW- 5.1
Education and Information Division
1000 Independence Avenue, S.W.
Room 5A-051
Washington, DC 20585
(202) 488-5513
1-(800) 225-NWPA or (225-6972)

Furnishes *Science, Society, and America's Nuclear Waste* to educators. This four-unit curriculum, developed and tested by teachers for use in grades 8 through 12, includes teacher guides, student readers, hands-on activities, videotapes, and computer software, which can supplement and provide relevance for science, technology and society; environmental science; and social studies classes. Units are modular and flexible and can be used in their entirety or selectively. Also available is general information on nuclear waste in a series of fact sheets and brochures, including an overview of the Nuclear Waste Policy Act, in addition to *Managing the Nation's Nuclear Waste*, which describes the integrated waste management system in the United States. All publications are free. **129**

A Federal program providing both general and special technical assistance to States and regions to establish an effective nationwide system for the disposal of commercial low level waste.

A Federal program established to develop a waste management system for the storage and disposal of U.S. commercial spent nuclear fuel and high-level nuclear waste.

U.S. Department of Energy

Office of Fossil Energy
Communications, FE-5
1000 Independence Avenue, S.W.
Room 4G-085
Washington, DC 20585
(202) 586-6503

Offers *Dinosaurs and Power Plants*, a three-document teaching set that relates the story of mining and drilling for coal, gas, and oil; environmental concerns; and modes of transportation. Included are two teaching guides and a booklet for students. Another publication, *Clean Coal Technology*, and a poster, *The Clean Coal Path*, are also available. All are free. **130**

A Federal Office providing technical and public education-related information on coal, oil, and natural gas technologies, and the Nation's petroleum reserves.

U.S. Department of Energy

Office of Nuclear Energy, NE-12
Plans and Evaluation Division
Washington, DC 20585
(301) 903-6590

Offers energy educational materials, including historical and current factual data on nuclear energy. Pamphlets discuss such issues as the nuclear fuel cycle and civilian uses of nuclear energy. Available publications include: *The History of Nuclear Energy*, *Atoms to Electricity*, *The Harnessed Atom*, and several others. Also provides booklet listing nuclear power plants, with operating data. All publications are free. **131**

Public Information Office for the Office of Nuclear Energy. Responds to public inquiries about DOE's civilian nuclear energy program.

U.S. Department of Energy
Office of Scientific and Technical
Information
P.O. Box 62
Oak Ridge, TN 37831
(615) 576-8401
Fax: (615) 576-2865
E-Mail: usertalk@adonis.osti.gov

Provides pamphlets on various energy-related subjects as available and as directed by the program offices. Many publications are free. Also provides electronic access to Departmental information through the DOE Home Page at the World Wide Web Server URL <http://www.doe.gov> on the Internet. This server can also be reached by dial-up through a modem at (615) 241-3901. **132**

The Office of Scientific and Technical Information (OSTI) is responsible for the management of DOE's scientific and technical information. OSTI works with DOE's program offices in making energy-related information available to the public.

U.S. Department of Energy
Pittsburgh Energy Technology Center
Education Outreach
P.O. Box 10940
Mailstop 141-L
Pittsburgh, PA 15236
(412) 892-5034
Fax: (412) 892-4158

Provides free materials for grades 3 to 5 that include extensive activities and teacher lesson plans. The materials were developed as a joint project between Pittsburgh Energy Technology Center scientists and teachers in the Elementary Teacher Research Internship Program. The materials include a booklet entitled *Coal: Energy for Home and Community*, laboratory activities, support information, discussion ideas, and overhead masters for view graphs on coal as well as solar and wind energy sources. **133**

A Federal fossil energy research facility.

U.S. Department of Energy
Sandia National Laboratories (SNL)
Educational Outreach
Organization #0035
P.O. Box 5800
Albuquerque, NM 87185
(505) 889-2311
Fax: (505) 271-4125

Provides educational products and class material for kindergarten through university level classes. Relevant titles/services for students from kindergarten through grade 12 include Capturing the Sun's Energy classroom experiments, science fair project ideas, "Capturing Sunlight for Everyone's Use" (videotape), and the Sandia Teachers Resource Center. **134**

U.S. Department of Energy
Southwestern Power Administration
P.O. Box 1619
Tulsa, OK 74101
(918) 581-7474

Provides educational assistance to a local magnet middle school through tutoring and special project assistance. Also provides a limited number of educational/informational publications targeting elementary school-age children on safe play around electrical sources. **135**

U.S. Department of Energy
Western Area Power Administration
P.O. Box 3402
Golden, CO 80401
(303) 275-1739
Fax: (303) 275-1717
Internet: buntin@wapa.gov

Provides contact points with WAPA's customers in the area of on-going energy educational efforts on conservation and renewable energy for students from kindergarten through grade 12. For information, call the Energy Services Manager in any of the following cities: Billings, Montana, (406) 657-6530; Loveland, Colorado, (303) 490-7227; Phoenix, Arizona, (602) 352-2661; Sacramento, California, (916) 649-4435; and Salt Lake City, Utah, (801) 524-5495, or the Division of Energy Services in Golden, Colorado. **136**

A DOE-funded national laboratory educational service to promote awareness of energy sources and uses.

A DOE power marketing administration serving the six-State area of Arkansas, Kansas, Louisiana, Missouri, Oklahoma, and Texas.

A DOE power marketing administration encompassing all or parts of 15 western States.

U.S. Department of the Interior

Bureau of Land Management (BLM)
1849 C Street, N.W.
Washington, DC 20240
(202) 208-3435 <P8M>(Public Affairs)<P255D>
(801) 539-4244 <P8M>(Minerals Outreach
Coordinator)

Provides a broad range of informational material on energy and mineral resources of the roughly 30 percent of the onshore land owned by the U.S. Federal Government. Available material includes pamphlets, brochures, maps, fact sheets, environmental studies, and statistical summaries. Material is free on request or carries a minimal charge. General information is available through the Washington, DC, office. Information on specific areas is available at the 12 State offices.

A regulatory agency responsible for the management of a wide variety of resources on public lands. These resources include wildlife habitat, recreational values, cultural and historic sites, scenic, and wilderness areas as well as more than 60 types of minerals produced from public lands.

BLM has an active program for presentation of energy and minerals sciences, especially as they relate to the public lands. Exhibits may be arranged for professional functions or fairs. Presentations at local schools or youth gatherings can be arranged through any BLM office or through the Minerals Outreach Coordinator in Salt Lake City, Utah.

Several videos are available focusing mainly on preservation of ecosystems and reclamation. Demonstration areas showing preservation and reclamation techniques may be used as field trips for students. The BLM is also active in the preservation of old mining towns, and tours of these "ghost towns" may be arranged.

U.S. Department of the Interior
Minerals Management Service (MMS)
1849 C Street, N.W.
Washington, DC 20240
(703) 787-1080
Fax: (703) 787-1010 or (703) 787-1186

Provides a broad range of informational material on gas, oil, mineral, and environmental resources in the ocean. Available material includes color photo posters, brochures, fact sheets, statistical summaries, technical reports, newsletters, environmental studies, and professional papers. Most material is free upon request, but quantities may be limited. The MMS has an extensive color slide collection, and arrangements may be made for loans or duplications at cost. Most information is suitable for upper grade levels.

Offices in Washington, DC; New Orleans, Louisiana; Camarillo, California; and Anchorage, Alaska, can arrange for presentations at local schools on the work conducted at MMS and on geology, environmental science, engineering, resource management, international activities, and related topics.

Several video programs are available on loan, including a new interactive video. MMS professionals have worked with schools to develop their energy and environmental resource curricula. Call or write for further information and referral or to ask for a catalog of publications. **138**

MMS is a regulatory agency responsible for balancing energy and mineral resource development with protection of environmental resources on the U.S. Outer Continental Shelf.

U.S. Environmental Protection Agency (EPA)

Public Information Center, 3404
401 M Street, S.W.
Washington, DC 20460
(202) 260-2080
Fax: (202) 260-6257

Provides free material on drinking water, air quality, pesticides, radon, indoor air, Superfund, wetlands, and other environmental topics. **139**

Public Information Center for EPA. Responds to public inquiries about environmental issues and EPA programs. Also serves as the main referral point for the Agency.

Videodiscovery, Inc.

1700 Westlake Avenue N. , Suite 600
Seattle, WA 98109-3012
1-(800) 548-3472
(206) 285-5400
Fax: (206) 285-9245
E-Mail: america online-"Videodiscovery" or
applelink:vdisc

Developer and publisher of multimedia programs for kindergarten through college-level science education. Specifically, the company publishes interactive science videodiscs, CD-ROMs, and computer software, such as *STS Science Forums; Understanding Earth; Chemistry at Work; Science Sleuths; and Physics at Work*. The company is dedicated to improving science instruction through the advancement of educational technologies. A free catalog of products is available upon request. **140**

An educational software publisher.

A municipal utility serving electric needs of the community.

Waverly Light and Power

1002 Adams Parkway
P.O. Box 329
Waverly, IA 50677
(319) 352-6251
Fax: (319) 352-6254

Provides educational services free to educators **within its service territory**. Services include generating plant tours, classroom presentations, and purchased reference materials for kindergarten through grade 12. **141**

Westinghouse Electric Corporation

Energy Systems
Communications Department
P.O. Box 355, Bay 216 E
Pittsburgh, PA 15230-0355
(412) 374-6803

Provides energy-related materials to all who are interested, especially to teachers and to students who will make our energy decisions in the future. A few copies of the booklets are available free of charge. However, for larger quantities, there is a fee. Materials available are: a simulated uranium fuel pellet; *Electricity from Nuclear Energy*; *Nuclear Energy Glossary*; *Questions Kids Ask About Energy*, *Radiation Booklet*; *Let's Look at Radioactive Waste Disposal*; and Component Illustrations (color prints). For more information, you may contact the Communications Department of the Energy Systems Business Unit. **142**

A company dedicated to providing high quality products, services, technology, systems, and management in nuclear energy, as well as advanced energy and process control systems.

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