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Energy Education Resources: Kindergarten Through 12th Grade

September 2004

Energy Information Administration
National Energy Information Center
U.S. Department of Energy
Washington, DC 20585

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PREFACE

Energy Education Resources: Kindergarten Through 12th Grade is published by the National Energy Information Center (NEIC), a service of the Energy Information Administration (EIA), to provide students, educators, and other information users a list of generally available free or low-cost energy-related educational materials.

The entries are listed alphabetically by organization title. Each entry includes the address, telephone number, and description of the organization and the energy-related materials available. Most of the entries also include Internet (Web) and electronic mail (E-Mail) addresses. In the back of the book there is a subject index cross-referenced by number to the alphabetical entries.

Some of the organizations represented in this list take policy positions on certain energy issues and express them even in educational 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.

This year's edition was done by Paula Altman and Karen Freedman. To include a new entry, contact EIA at the following address:

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Copies of this publication are available free of charge from NEIC.

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**AIR & WASTE MANAGEMENT ASSOCIATION
(A&WMA)**

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E-Mail: info@awma.org
Web: www.awma.org

Founded in 1907, A&WMA is a nonprofit, technical, and educational organization with over 9,000 members in 69 countries. This worldwide network represents many disciplines: physical and social sciences, health, engineering, law, and management. It serves its members and the public by promoting environmental responsibility and by providing technical and managerial leadership in the areas of air pollution control, environmental management, and waste processing and control.

A&WMA provides educational materials for teachers and students in kindergarten through grade 12. Materials are designed to improve the environmental literacy of students and educators and introduce them to actions that they can take to reduce waste, conserve energy, and develop pollution prevention plans. Materials include fact sheets and information books on such topics as air pollution, pollution prevention, recycling, hazardous waste, landfills, and others. A&WMA also produces *Environmental Resource Guides (ERGs)* on air quality and nonpoint source pollution prevention, which focuses on water quality and runoffs. ERGs are supplementary curricula with a hands-on, interdisciplinary approach to environmental education. We encourage A&WMA members and other interested parties to sponsor local teacher-training workshops. The workshops provide teachers an opportunity to participate in ERG activities and create an ongoing dialogue between environmental professionals and the educational community. Contact A&WMA headquarters to find out about teacher-training opportunities in your area or to order public education materials. 1

THE ALLIANCE TO SAVE ENERGY

1200 18th Street, N.W., Suite 900
Washington, DC 20036
(202) 857-0666
Fax: (202) 331-9588
E-Mail: greenschools@ase.org
Web: www.ase.org

A nonprofit coalition of business, government, environmental, and consumer leaders who promote the efficient and clean use of energy worldwide to benefit consumers, the environment, the economy, and national security. The Alliance was founded in 1977 by Senators Charles H. Percy (R-IL) and Hubert H. Humphrey (D-MN).

The Alliance's Green Schools Program is a comprehensive energy savings program for K-12 schools that incorporates energy education and energy-saving activities in and around the school building. Students begin to understand energy and its link to the environment and economics, and the schools benefit by cutting energy costs. Free, downloadable lessons plans, information about the Green Schools Program, contact information and more are available online at www.ase.org/greenschools. 2

THE ALUMINUM ASSOCIATION, INC.

900 19th Street, N.W.
Washington, DC 20006-2168
(202) 862-5100
Fax: (202) 862-5164
Web: www.aluminum.org

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

Provides information on recycling. A complete listing of our publications, along with ordering information, is available on our Web site. 3

**AMERICAN ASSOCIATION FOR VOCATIONAL
INSTRUCTIONAL MATERIALS**

220 Smithonia Road
Winterville, GA 30683
1 (800) 228-4689
(706) 742-5355
Fax: (706) 742-7005
E-Mail: ksseab@aavim.com
Web: www.aavim.com

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

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 *Understanding Electricity, Electrical Wiring, How Electric Motors Start and Run, Fuels and Lubricants, Electric Motors, and Electrical Controls*. 4

AMERICAN CHEMISTRY COUNCIL (ACC)

1300 Wilson Boulevard
Arlington, VA 22209
(703) 741-5000
Fax: (703) 741-6000
Web: www.americanchemistry.com

The American Chemistry Council represents the leading companies engaged in the business of chemistry.

Council members apply the science of chemistry to make innovative products and services that make people's lives better, healthier and safer. The Council is committed to improved environmental, health and safety performance through Responsible Care®, common sense advocacy designed to address major public policy issues, and health and environmental research and product testing. As the largest industrial user of natural gas in America, the chemical industry advocates for a responsible U.S. energy policy. The business of chemistry is a \$460 billion enterprise and a key element of the nation's

economy. It is the nation's largest exporter, accounting for ten cents out of every dollar in U.S. exports. Chemistry companies invest more in research and development than any other business sector. **5**

THE AMERICAN CHEMICAL SOCIETY

1155 16th Street, N.W.
Washington, DC 20036
(202) 872-4590
Fax: (202) 833-7732
E-Mail: m_tinnesand@acs.org
Web: www.chemistry.org

The world's largest scientific society with a membership of over 163,000 chemists and chemical engineers.

Publishes educational materials for use in grades 4 through 12: *The Best of Wonder Science, Volumes I and II*, offers hundreds of hands-on activities for elementary school students; *ChemMatters*, an award-winning magazine for high school students, relates chemistry to everyday life (published quarterly, back issues are available); *ChemCom*, a chemistry textbook program for high school students, connects basic chemistry concepts and content to the real world; *Introduction to Green Chemistry*, a laboratory manual for advanced high school chemistry students, introduces students to environmentally benign industrial processes that begin with renewable resources; and *Science in a Technical World (STW)*, a series of high school science modules, places students in a variety of problem-solving roles as chemical technicians. All of these products include such energy-related topics as electricity, recycling, nuclear energy, and the environment. A free *Teaching Resources Catalog* is available upon request. **6**

AMERICAN COAL FOUNDATION

101 Constitution Avenue, N.W., Suite 525-E
Washington, DC 20001-2133
(202) 463-9785
Fax: (202) 463-9786
E-Mail: info@teachcoal.org
Web: www.teachcoal.org

A nonprofit educational organization supported by a coalition of coal producers and mining equipment manufacturers and suppliers.

Teachers can receive FREE educational materials (teacher packages and coal samples). These materials include: general information brochures on coal, electricity, and land reclamation; coloring and activity book; activity book with teacher guide; activities for elementary and secondary students; coal samples; a coal video and CD guide; a science fair ideas brochure; and posters. Additional copies and other material (video, CD-ROM) are available for a nominal charge. When ordering, include name of organization/school, address, phone/fax numbers, and grade level. Contact above for information. Place order with West Glen Communications, 1430 Broadway, New York, NY 10018, 1 (800) 325-8677, (212) 921-9536 (fax). 7

AMERICAN COUNCIL FOR AN ENERGY-EFFICIENT ECONOMY (ACEEE)

1001 Connecticut Avenue, N.W., Suite 801
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(202) 429-0063 (publications)
Fax: (202) 429-2248
E-Mail: info@aceee.org
Web: www.aceee.org

An independent, nonprofit organization dedicated to advancing energy efficiency as a means of promoting both environmental protection and economic prosperity.

Publishes a variety of books, reports, consumer guides, and fact sheets. Material covers energy use and efficiency, as well as related environmental issues in buildings, industry, and transportation. ACEEE's books and reports are written primarily for adults and concern energy-efficient technologies and policies for end-use. In addition, the *Consumer Guide to Home Energy Savings* is a popular illustrated book for general consumers is a suitable teaching resource for grades 8 through 12. ACEEE's *Green Book: The Environmental Guide to Cars and Trucks*, updated annually, is a one-of-a-kind buyers' guide that ranks vehicles according to environmental friendliness. These materials are available for a fee and are described in a free catalog. 8

AMERICAN ELECTRIC POWER

Community Relations
1 Riverside Plaza, 19th Floor
Columbus, OH 43215
(614) 716-1668
Fax: (614) 716-1682
E-Mail: educate@aep.com
Web: www.aep.com

An investor-owned utility with more than 5 million customers linked to its electricity transmission and distribution grid in Arkansas, Indiana, Kentucky, Louisiana, Michigan, Ohio, Oklahoma, Tennessee, Texas, Virginia and West Virginia.

Provides free educational services to pre-K through grade 12 educators **in areas served by American Electric Power**. Internet resources at the Web site listed above include "The Electric Universe®" for students, teachers and parents; and "Learning from Light" and "Learning from Wind," featuring graphs of actual solar and wind power generation at participating schools and sites. Other services include live theatre presentations on electrical safety for elementary schools; classroom resources; and information centers, tours and nature trails. Educator workshops also may be available in some States. 9

AMERICAN FOREST FOUNDATION

Project Learning Tree
1111 19th Street, N.W., Suite 780
Washington, DC 20036
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E-Mail: info@plt.org
Web: www.plt.org

A nonprofit educational and conservation organization developing, funding, and administering programs that encourage the long-term stewardship of our natural resources. The Foundation's core programs are Project Learning Tree (PLT) and American Tree Farm System.

Project Learning Tree is sponsored nationally by the American Forest Foundation. The program is sponsored at the State level by a variety of State natural resource and education agencies. Crafted to meet State and national standards, PLT provides all the tools educators need to bring the environment into their classrooms – and their students into the environment. PLT's supplementary curriculum guide, *Project Learning Tree: Environmental Education Pre K-8 Activity Guide* (96 multidisciplinary activities), focuses on the total environment: land, air, and water. It is local, national, and global in scope. The curriculum underscores PLT's primary goal — to increase students' understanding of our complex environment. PLT is designed to teach students how to think, not what to think, about environmental issues. The curriculum remains easily adaptable to many settings from the classroom to youth organizations, museums, nature centers, and Scout troops.

Two of the storylines in the *Project Learning Tree: Environmental Education Pre K-8 Activity Guide* focus on energy. The first storyline highlights the concept that energy exists in different forms and comes from renewable and non-renewable sources. The second storyline emphasizes that societies use energy in many different ways and that human use of energy has short- and long-term social, economical, environmental, and health impacts. These energy storylines are comprised of 14 activities. PLT provides secondary education teachers with

a series of topic-specific modules that challenge students to explore every facet of an issue — illustrating the complexity of real-life environmental decisions. In particular, PLT's secondary education module, *Exploring Environmental Issues: Municipal Solid Waste*, helps students explore causes and solutions of this universal urban environmental issue.

PLT offers the Energy & Society kit — energy education materials at the Pre K-8 level. Students learn about their relationship with energy and investigate the environmental issues related to energy's role in society. Energy & Society helps students develop critical thinking skills to make decisions about their personal energy use. In addition to hands-on activities, Energy & Society integrates music and dance to enhance the study of energy issues. The kit includes an activity guide with background information for educators, music CD, dance video, and poster set. The kit is available for sale as well as through workshops.

All PLT curricular materials are available through local workshops. Contact PLT for the name of the program coordinator in your State or visit the PLT Web site for more information on all of PLT's programs. **10**

AMERICAN GEOLOGICAL INSTITUTE (AGI)

4220 King Street
Alexandria, VA 22302-1502
(703) 379-2480
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Web: www.agiweb.org

The American Geological Institute is a nonprofit federation of 43 geoscientific and professional associations </members/index.html> that represents more than 100,000 geologists, geophysicists, and other earth scientists. Founded in 1948, AGI provides information services to geoscientists, serves as a voice of shared interests in our profession, plays a major role in strengthening geoscience education, and strives to increase public awareness of the vital role the geosciences play in society's use of resources and interaction with the environment.

AGI disseminates information on earth science education through several mechanisms, including publications such as high-school curricula (*EarthComm*[™]) and middle-school curricula (*Investigating Earth Systems*[™]); and workshops and presentations for teachers and educators. Visit www.agiweb.org/education for more information. AGI also publishes *Geotimes*, a monthly news magazine (www.geotimes.org), and provides geoscience career information (www.agiweb.org/careers). During the second full week of October, AGI sponsors *Earth Science Week* to raise awareness about how the earth sciences affect our lives and society (www.earthscienceworld.org/week). The Earth Science World ImageBank (www.earthscienceworld.org/imagebank/) provides a library of geoscience images for free educational use. Earth Science Week Kits and other AGI publications are available on a secure Web site at www.agiweb.org/pubs. **11**

AMERICAN NUCLEAR SOCIETY

Outreach Department
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LaGrange Park, IL 60526
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Web: www.ans.org or www.aboutnuclear.org

A nonprofit scientific and educational organization of professionals in the field of nuclear science and technology.

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*, and a *Personal Radiation Dose Chart*. A free publications list is available upon request by mail or electronic mail at outreach@ans.org. Teachers may sign up for the free newsletter, *ReActions*, which contains articles on uses of the atom in everyday life and - in each issue - an “activity card” with a project for classroom use. Short workshops and sessions are held throughout the year at exhibits, conferences, in-service training, and by invitation. **12**

AMERICAN PETROLEUM INSTITUTE (API)

1220 L Street, N.W.

Washington, DC 20005

(202) 682-8081

Fax: (202) 962-4719

Web: www.api.org or www.classroom-energy.org

The American Petroleum Institute (API) is the primary trade association for the oil and natural gas industry in the United States. Representing one of the most technologically advanced industries in the world, our membership includes more than 400 companies engaged in the exploration, production, refining, transportation and marketing of petroleum, natural gas and related products.

API supplies educational materials on the petroleum industry to teachers at no charge. API has created an online resource for educators and students that explores the topic of energy at www.classroom-energy.org including classroom activities, interactive tours, and links to a variety of energy education resources. In partnership with Project Learning Tree (PLT), API developed the “Energy and Society” K-8 education program, including multidisciplinary education materials to help students understand the critical role that energy plays in their daily lives. Program components, all correlated to national education standards, include a music CD and video, posters, study guide and Web site. The “Energy & Me” music CD features 15 songs about energy and is a 2002 Parents’ Choice Recommended Award winner. For more information about the program, please visit PLT’s Web site at www.plt.org/curriculum/energy.cfm.

API has also partnered with Scholastic to develop Internet-based lesson plans on energy for grades 6-8. Classroom activities and lesson plans are tied to national education standards and feature background information, crossword puzzles and links to a variety of energy education resources. The lesson plans can be found on Scholastic’s Web site at <http://teacher.scholastic.com/lessonplans/energy/index.htm>.

Finally, API offers a wide variety of energy education material for 9-12 graders on API's Web site, www.api.org, including interactive modules and videos such as "Adventures in Energy", "Technology Transforming an Industry" and "Environmental Commitment" which demonstrate the industry's cutting-edge technology and continued environmental progress in the exploration, production, refining, transportation and marketing of petroleum products. For a complete list of API's education materials for all grade levels, please download a brochure at: www.classroom-energy.org/teachers/ed_materials/API_Education_Materials.pdf. **13**

AMERICAN PLASTICS COUNCIL (APC)

1300 Wilson Boulevard
Arlington, VA 22209
1 (800) 2-HELP-90
(703) 741-5000
Fax: (703) 741-6000
Web: www.plastics.org

APC is a national trade association representing the Nation's largest resin producers, including monomer and polymer production and distribution. APC advocates unlimited opportunities for plastics and promotes their economic, environmental and societal benefits. Plastics: A World of Unlimited Opportunities. Plastics Make It Possible®.

APC has an interactive, online version of their "Hands on Plastics: A Scientific Investigation Kit curriculum" for grades 5-8, as well as the addition of a K-4 Curriculum. The curricula, found at www.teachingplastics.org, was developed in its original format in conjunction with the National Middle Level Science Teachers Association and features background information on plastics and polymers, multi-media examples of classroom activities, and ties to the National Science Education Standards. The information is also available on a CD-ROM. The free kit of supplemental materials for grades 5-8 curriculum can be ordered online, along with other APC publications. **14**

AMERICAN PUBLIC POWER ASSOCIATION (APPA)

2301 M Street, N.W., Suite 300
Washington, DC 20037
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Web: www.appanet.org

The American Public Power Association is the service organization for the Nation's more than 2,000 not-for-profit, community- and state-owned electric utilities.

Provides various general information pamphlets, including: *The Benefits of Public Power*, *Careers in Public Power*, and *All About Electricity and 10 Ways Kids Can Save It*. Also available are two videos, "Simple Things You Can Do To Save Energy" and "Simple Things You Can Do To Save Energy In Your School." The videos were developed through APPA's Demonstration of Energy-Efficient Developments (DEED) program. Publications and videos are offered for a nominal fee. A complete list of materials available is on the Web site at www.appanet.org/publications/. DEED also offers scholarships to college students and this information is available on the Web site at www.appanet.org/DEED/index.cfm. 15

AMERICAN SOLAR ENERGY SOCIETY (ASES)

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Web: www.ases.org or www.solartoday.org

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

The American Solar Energy Society (ASES) is a nonprofit membership organization founded in 1954 to encourage the use

of solar and renewable energy technologies to be a source of sound, broad technical knowledge and to provide a forum for addressing critical issues relating to these energy technologies.

ASES publishes the magazine *SOLAR TODAY*; sponsors the annual National Solar Energy Conference and the Annual ASES National Solar Tour; and supports regional chapters throughout the country. ASES is the United States section of the International Solar Energy Society.

ASES offers sample copies of its magazine, *SOLAR TODAY*. It has one science project book, "Elementary and Secondary Science Projects in Renewable Energy and Energy Efficiency," available for a fee. See www.ases.org or www.solartoday.org for more details and to download additional information. **16**

AMERICAN WATER WORKS ASSOCIATION (AWWA)

6666 West Quincy Avenue
Denver, CO 80235
1 (800) 926-7337
Fax: (303) 795-1989
E-mail: knitschke@awwa.org
Web: www.awwa.org

AWWA is the authoritative resource for knowledge, information, and advocacy to improve the quality and supply of drinking water in North America and beyond. AWWA is the largest organization of water professionals in the world. AWWA advances public health, safety and welfare by uniting the full spectrum of the drinking water community.

Offers educational materials for sale designed to teach young people about water treatment, distribution, and conservation. Materials include activity books, teacher's guides, comic style books, compact disks and videos. Call for a free catalog and visit the Web pages for additional materials. **17**

AMERICAN WIND ENERGY ASSOCIATION (AWEA)

122 C Street, N.W., Suite 380
Washington, DC 20001
(202) 383-2500
Fax: (202) 383-2505
E-Mail: windmail@awea.org
Web: www.awea.org

The American Wind Energy Association (AWEA) is the national association of the U.S. wind energy industry. AWEA's membership is composed of companies and individuals dedicated to advancing the use of clean, renewable wind energy. The mission of AWEA is to promote wind power growth through communication, education, and advocacy.

AWEA offers an Educator's Packet on wind energy, including: a *Wind Energy Teacher's Guide*; the current *Wind Energy Status Report*, which outlines the domestic and international growth of the wind industry; the *Basic Facts About Wind Energy*, which discusses the scale of wind projects, as well as economic development; and a *Wind Energy Information Guide*, a compilation of further sources to contact for information about wind energy. Packets are free upon request. Other educational materials, such as videos and posters, are available for a fee through the AWEA online publications listing. Educators are encouraged to visit the AWEA Web site at www.awea.org. **18**

ARIZONA DEPARTMENT OF COMMERCE ENERGY OFFICE

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E-Mail: jima@azcommerce.com
Web: www.commerce.com or <http://azsolarcenter.com>

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

Provides materials for primary and secondary schools through downloadable PDFs on its Web site. Information includes - *Bright Ideas* (single-topic publication covering energy and the environment, recycling, solar cooking, and photovoltaics). **19**

ASEPTIC PACKAGING COUNCIL (APC)

2120 L Street, N.W., Suite 400
Washington, DC 20037
Web: www.aseptic.org

A trade association representing the U.S. manufacturers of drink boxes. APC's primary mission is to inform the American public about the product benefits and environmental attributes of aseptic packaging.

For more information visit the APC Web site at www.aseptic.org.
20

BALTIMORE GAS AND ELECTRIC COMPANY (BGE)

Educational Services
7225 Windsor Boulevard
Baltimore, MD 21244
(410) 265-4098
Fax: (410) 265-4299
Web: www.bge.com

Baltimore Gas and Electric Company is an investor-owned utility serving Baltimore City and all, or part of, nine Central Maryland counties.

Provides educational services free of charge to schools **in BGE's service area**. Services include classroom programs, career programs, resources, videos, and classroom literature for students in kindergarten through grade 12. Plant tours can be arranged through Constellation Energy Group by calling (410) 783-3272. A **free Educational Resources** catalog is available upon request. Teachers may order materials through BGE's Web site above. **21**

BP

535 Madison Avenue
New York, NY 10022
(212) 451-5010
Fax: (212) 451-8088
Web: www.bp.com

The holding company of one of the world's largest petroleum and petrochemicals groups. Main activities are exploration and production of crude oil and natural gas; refining, marketing, supply and transportation; and manufacturing and marketing of petrochemicals with a growing activity in gas and power and in solar power generation.

The *BP Educational Resources Catalogue* offers a full range of school resource materials. Some of the items in the catalogue are available for a fee. Please note that prices are given in Pounds Sterling and some shipping charges may be charged. Access it at www.bpes.com.

The *BP Statistical Review of World Energy* is on the BP Web site at www.bp.com/centres/energy/. It contains information on world energy supplies and demand, including data on oil, gas, coal, nuclear, and hydro in terms of reserves, production, and consumption for a 10-year period before the current year. **22**

BRONX ZOO/WILDLIFE CONSERVATION PARK

Education Department
2300 Southern Boulevard
Bronx, NY 10460
1 (800) 937-5131
Fax: (718) 220-1057
E-Mail: arobinson@wcs.org
Web: www.wcs.org/education

The purpose of the Wildlife Conservation Society (WCS), since its founding in 1895 as the New York Zoological Society, has been to save wildlife and inspire people to care about our natural heritage. The Society continues to pioneer environmental education programs throughout the United States and abroad. It has the world's leading international conservation program devoted to saving endangered species and ecosystems.

WCS offers *Voyage From the Sun*, a 20-lesson classroom science module for grades 4 through 9. Developed with funding from the U.S. Department of Energy, *Voyage* is designed to introduce students to the major way in which energy is important to wildlife, focusing on the rainforest and tundra habitats. It encourages students to explore the story of earth's energy — its solar origins, how it is incorporated into living systems through photosynthesis, and how it flows from plants to animals.

During *Voyage* training workshops, teachers learn strategies for making the study of energy fun and exciting, as well as receiving first-hand training in how to guide their students as the Energy Pyramid becomes a classroom exhibit. Through activities, such as Photosynthesis Scramble and Tundra Math, teachers build the confidence to lead students on a voyage of discovery as they explore how energy is central to biology and how it links the natural and physical sciences. For more information, call the Director of National Programs at the number above. **23**

BULLFROG FILMS

P.O. Box 149

Oley, PA 19547

1 (800) 543-3764

Fax: (610) 370-1978

E-Mail: video@bullfrogfilms.com

Web: www.bullfrogfilms.com

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

Provides educational videos and DVDs on energy and energy-related issues. Titles include: *Biogas from the Sea; Building the Brookhaven House; Design with the Sun; The Four Corners: A National Sacrifice Area?; Global Warming: Turning Up the Heat; Kilowatts from Cowpies: The Methane Option; Water Power; In Our Own Backyards: Uranium in the U.S.; Downwind/Downstream; Poison in the Rockies; Lovins on the Soft Path; Rising Waters: Global Warming and the Fate of the Pacific Islands; Silent Sentinels; Turning Down the Heat: The New Energy Revolution; Harness the Wind; Living Under the*

Cloud: Chernobyl Today; Turning the Toxic Tide; Race for the Future; An Energy-Efficient Doghouse; Solar Energy Doghouse; City Lights; Rethink-Pollution Prevention Pays; Recycling With Worms; Planet Neighborhood; It's Eco-Logic; Water and the Human Spirit; Here's My Question: Where Does My Garbage Go?; Motor; Nuclear Dynamite; Save Our Land, Save Our Towns; The Next Industrial Revolution; Razing Appalachia; Rough Science Series; Baked Alaska; Up Close and Toxic; Crapshoot: The Gamble with Our Wastes; Thirst; Journey of the Blob 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. **24**

CALIFORNIA ENERGY COMMISSION

1516 9th Street, MS-29
Sacramento, CA 95814
(916) 654-4989
Fax: (916) 653-5590
E-Mail: mediaoffice@energy.state.ca.us
Web: www.energyquest.ca.gov

The California Energy Commission is the State's principal energy planning organization, promoting a balanced and competitive energy system through its diverse programs.

Energy Quest, an online resource for students, teachers and parents, is dedicated solely to energy education and features information on renewable energy, conservation, safety, energy-related math and science experiments; word games; and links to other resources. New for 2004 for teachers and students is the new "You've Got the Power" video, available on Energy Quest or on VHS or CD format. A perfect partner with the Teacher's Guidebook "Energy for Keeps - Electricity from Renewable Energy" is available online. The Energy Commission also provides the following printed energy and environmental education material for kindergarten through grade 12 (more resources online on Energy Quest): *Compendium for Energy Resources* (curriculum evaluation); *Universal House*; *Energy*

Shelter & the California Indian; Conserve and Renew. The Energy Commission's Consumer Energy Center, www.consumerenergycenter.org, provides information for older students on renewable technologies, lighting, passive design, transportation, and building materials. **25**

CALIFORNIA FOUNDATION FOR AGRICULTURE IN THE CLASSROOM

2300 River Plaza Drive
Sacramento, CA 95833
(916) 561-5625
Fax: (916) 561-5697
E-Mail: cfaitc@cfbf.com
Web: www.cfaitc.org

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.

Teachers may request free or low-cost items, including lesson plans, comprehensive 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, some have Spanish language worksheets. Lesson plans can be used as vehicles for teaching Content Standards for California Public Schools. The Foundation encourages classroom integration of agriculture to increase the understanding of its vital role in our lives. Agriculture provides a theme which encourages hands-on activities to reinforce concepts in science/environment, mathematics, English/language arts, history/social science, health/nutrition, physical education, and the visual and performing arts. Contact with the Foundation is a good starting point for teaching other agriculture-related groups that produce educational resources. Educational materials developed by industries and organizations related to agriculture are reviewed by the Foundation and listed in an annually updated *Teacher Resource Guide*. **26**

THE CENTER FOR ENERGY AND ECONOMIC DEVELOPMENT (CEED)

333 John Carlyle Street, Suite 530
Alexandria, VA 22314
(703) 684-6292
Fax: (703) 684-6297
E-Mail: info@ceednet.org
Web: www.ceednet.org

CEED is a nonprofit corporation dedicated to preserving the coal option for America's future energy needs through the use of research, education, and advocacy programs.

CEED works primarily with regional, State, and local policymakers to provide accurate information regarding electricity from coal's role in providing reliable, affordable, and environmentally sound electricity to millions of American families and businesses. CEED materials and information are on the CEED Web site at www.ceednet.org. 27

CENTERPOINT ENERGY HOUSTON

Community Relations
1111 Louisiana
P.O. Box 1700
Houston, TX 77251
(713) 207-2222 or (713) 207-7579
Fax: (713) 207-9892
E-Mail: lucretia.ahrens@CenterPointEnergy.com
Web: www.centerpointenergy.com

CenterPoint Energy is an investor-owned electric and gas delivery company headquartered in Houston and serving seven States from Texas to Minnesota.

The CenterPoint Energy Houston division provides free educational services to K-12 educators **in the Houston, Texas, area**. Services include classroom presentations, videotapes, publications, and activity booklets for students.

Resources and newsletters for educators and teacher in-service training, as well as teacher workshops, are also available. In addition, curriculum supplements are available on topics such as electrical and natural gas safety. “Electric Universe” and “Energy Underground” Internet Resource for Teachers and Students can be found at the Web site listed above. **28**

CHANNING BETE COMPANY

One Community Place
South Deerfield, MA 01373-0200
1 (800) 628-7733
Fax: 1 (800) 499-6464
E-Mail: custsvcs@channing-bete.com
Web: www.channing-bete.com

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

Offers *My Book* series, designed for students in kindergarten and 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. Water, Electric and Energy Conservation stickers and growth charts are also available. Contact your local utility for availability or call the above number. Provides educational services fulfillment for utilities. Please call for pricing, a catalog, and a free sample. **29**

CHARLES EDISON FUND

One Riverfront Plaza, 3rd Floor
Newark, NJ 07102
(973) 648-0500
Fax: (973) 648-0400
E-Mail: info@charlesedisonfund.org
Web: www.charlesedisonfund.org

A charitable foundation providing science teachers with simple, basic, proven fun experimental booklets containing 82 experiments.

Provides “The Best of Edison Science Teaching Kits,” which are available to teachers. Each kit contains nine how-to booklets based on experiments of Thomas Edison and other scientists. These are suitable for grades 4 through 8. Titles include: *Energy for the Future; Useful Science Projects; Environmental Experiments; Selected Experiments and Projects; Nuclear Experiments; Energy Conservation; Alternative Energy Sources; Static Electricity — It’s a Snap; and Lewis Howard Latimer Experiments*. There is a small fee for handling charges. Write for coupon to receive this kit. These experiments are also located at the above Web site, which can be downloaded free of charge. **30**

THE CHLORINE CHEMISTRY COUNCIL (CCC)

1300 Wilson Boulevard
Arlington, VA 22209
(703) 741-5821
Fax: (703) 741-6821
E-Mail: info@science-education.org
Web: www.science-education.org

The Chlorine Chemistry Council®, a business council of the American Chemistry Council, provides information to the public regarding chlorine and promotes the practice and understanding of the responsible use of chlorine chemistry.

The Science Center is a user-friendly site with a variety of fun, educational offerings focused on chlorine science, including:

- *Water Germs Busted by Chlorine and Swimming Pool Germs Busted by Chlorine*—Downloadable coloring/activity books featuring the adventures of The Chlorin8tor and Little Hector, The Disinfector superheroes who teach students the value of chlorine disinfection while imparting an appreciation of simple microbiology.
- *The Chlorine Compound of the Month*—Informative, illustrated articles on a different chlorine compound each month, including interesting facts and basic chemical principles.

- *The Global Bug Conspiracy*—A creative learning tool that “vilifies” some of the most common waterborne pathogens as “mischievous microbes” that are defeated by chlorine disinfection. **31**

CITY PUBLIC SERVICE (CPS)

Energy Education Section
P.O. Box 1771
San Antonio, TX 78296-1771
(210) 353-2300
Fax: (210) 353-4352
Web: www.citypublicservice.com

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

Provides safety and energy educational services free of charge to schools **in the CPS service area**. Services include classroom presentations, a videotape library, curriculum supplements, Energy Education Center, and a Power Point slide presentation. A free *School Safety & Energy Education Program Catalog* is available upon request. **32**

CITY UTILITIES OF SPRINGFIELD, MO

301 E. Central
P.O. Box 551
Springfield, MO 65801-0551
(417) 831-8348
Fax: (417) 831-8324
E-Mail: Cara.Shaefer@cityutilities.net
Web: www.cityutilities.net

A municipal utility serving the metropolitan area of Springfield with electricity, natural gas, water, transit, and telecommunications services. Provides educational services free to instructors in areas served by City Utilities (CU).

Offers powerplant and water treatment plant tours, classroom presentations, an extensive speakers' bureau, and a variety of

energy management resources. City Utilities' partnership with a local high school has become a model for other business and education partnerships. This effort was recognized by the Missouri Department of Education as one of the "Best of the Best Practices for 1999" with more than 130 employees volunteering to assist students. The partnership between CU volunteers and Central High School encourages young people to stay in school and facilitates the school-to-work transition for many students. **33**

COBBLESTONE PUBLISHING

A Division of Carus Publishing Company
30 Grove Street, Suite C
Peterborough, NH 03458
1 (800) 821-0115
Fax: (603) 924-7380
E-Mail: custsvc@cobblestone.mv.com
Web: www.cobblestonepub.com

A publishing firm specializing in magazines for children and teaching resources.

Publishes educational materials for students in grades 2 through 9. Energy-related titles are: *Energy: Powering Our Nation*; *Recycling*; *Earth: A Global Spaceship*; *Planet Earth: Home Sweet Home*; *Amazing Weather*; *Year of the Ocean*; *Night Feeders*; and *California: Water*. Also available is *Odyssey* magazine, featuring such issues as "Secret Life of Plants," "Science of Migration, Snow and Ice," "Antarctica," and "Fragile Frogs." Materials may be purchased from the publisher. Free catalogs are available upon request. **34**

THE COLORADO ENERGY SCIENCE CENTER (CESC)

1767A Denver West Boulevard, Suite 49
Golden, CO 80401
(303) 216-2026
Fax: (303) 384-0020
E-Mail: stoth@energyscience.org
Web: www.energyscience.org

A nonprofit organization specializing in energy education. Formed by the three managing partners of the National

Renewable Energy Laboratory in 1999, CESC educates energy users to make smart investments in clean, cost-effective, sustainable energy technology.

The Colorado Energy Science Center has developed the “Energy Science in the Home Activity Guide,” a set of hands-on modules that improve student proficiency in math and science while giving students the tools to identify energy efficiency opportunities in their own homes. CESC also organizes an annual contest called the Home Energy Investigation in which student teams analyze energy bills and rank homes based on their potential for energy savings. Private sponsors donate cash and energy efficiency products and services as contest awards. The contest encourages students to articulate what they’ve learned and to become effective champions of smart energy efficiency investment. CESC seeks opportunities to partner with organizations in other States to offer energy education in kindergarten through 12th grade schools. **35**

THE CONSUMER AEROSOL PRODUCTS COUNCIL

99 Canal Center Plaza, Suite 310

Alexandria, VA 22314

(703) 683-1044

Fax: (703) 683-4622

E-Mail: rmorris@smithharroff.com

Web: www.nocfcs.org

Supported by companies that manufacture and market aerosol products, the Consumer Aerosol Products Council was founded in 1991 to provide information on aerosols and environmental issues for consumers, media, and educators at all levels.

Offers “Another Awesome Aerosol Adventure,” a **free** educational unit for students in grades 4 through 8. Includes a 10-minute video produced by the creative team from the popular children’s television program *Beakman’s World*. Designed with humor in mind, the video, along with accompanying teacher and student guides, a colorful classroom poster and take-apart aerosol can, makes the complex issues of aerosol technology, ozone depletion, and environmental awareness memorable and fun for a middle school-age audience. “Another Awesome Aerosol

Adventure” is available through Video Placement Worldwide at 1 (703) 836-9797.

The organization also offers the “Science Class Challenge” an opportunity to win \$500 to \$5,000 for your school and a pizza party for your class by teaching an activity found on our Web site and entering our contest. The Science Class Challenge is available for grades 4-9 and encourages students and teachers to learn about the Earth’s protective upper ozone layer, CFCs, and the environment. **36**

CREATIVE TEACHING PRESS, INC.

P.O. Box 2723

Huntington Beach, CA 92647-0723

(714) 895-5047

Fax: (714) 895-6547 or 1(800) 229-9299

E-Mail: webmaster@creativeteaching.com

Web: www.creativeteaching.com

A publisher of educational activity books.

Offers award-winning educational activity books for youth ages 3 to 14. Energy-related titles include: *Earth Book For Kids; Gobble Up Science; How & Why? Science Series; Look Once! Look Again! Series; Life Cycles Series; Seasons; and Science Learn To Read Series*. These books are available from school supply stores, bookstores, or the publisher. Free catalogs are available upon request. **37**

CULVER COMPANY

104 Bridge Road

Salisbury, MA 01952-9904

1 (800) 4-CULVER

Fax: (978) 463-1715

E-Mail: customerservice@culverco.com

Web: www.culverco.com

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

Produces booklets, educational Web sites, videos, posters, and program enhancement items for children and adults. Teacher discussion guides are also available. Utilities purchase and distribute these materials **in their service areas**; other organizations may purchase them directly. **38**

DENVER EARTH SCIENCE PROJECT

Office of Special Programs & Continuing Education

Colorado School of Mines

Golden, CO 80401

(303) 273-3621

1 (800) 446-9488 x3621 (outside 303 area code)

Fax: (303) 273-3314

E-Mail: desp@mines.edu

Web: www.mines.edu/Outreach/Cont_Ed/desp.shtml

A teacher enhancement program, in partnership with corporations, Federal agencies, school districts, and professional organizations which provides innovative earth science curricula for use in grades 4 through 12.

Provides, for a fee, a series of educational workshops that address a range of earth science topics developed by trained curriculum development teams, including 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. The modules are:

- “Oil and Gas Exploration” (grades 7 through 12)
- “Ground Water Studies” (grades 7 through 9)
- “Paleontology and Dinosaurs” (grades 7 through 9)
- “Energy — A Closer Look at Oil and Gas” (grades 4 through 6)
- “Do You Know Your 3 R’s? Radiation, Radioactivity, and Radon” (grades 7 through 10)

Each module contains a teacher resource kit which includes a teacher/student notebook, maps, audiovisual materials, posters, oil samples, groundwater models, etc. Call to find out the location of the nearest training site. **39**

DISNEY EDUCATIONAL PRODUCTIONS

105 Terry Drive, Suite 120

Newtown, PA 18940

1 (800) 295-5010

Fax: (215) 579-8589

Web: www.Edustation.com

Disney Educational Productions develops and distributes entertaining and thought-provoking videos that excite children of all ages to learn about a variety of subjects.

Offers educational videos (some titles on DVD as well) on energy, the environment, earth science, recycling, and water. Curriculum-oriented videos come with discussion guides and lesson plans. Titles include:

- Bill Nye the Science Guy shows, such as *Garbage, Pollution Solutions, and The Water Cycle*
Other relevant Bill Nye titles: *Atmosphere, Atoms, Biodiversity, Earth's Crust—Earth Science Archaeology, Electrical Current, Energy, Erosion, Forests, Fossils, Lakes & Ponds, Oceanography, Rivers & Streams, Rocks & Soil, Simple Machines, Static Electricity, The Sun, Volcanoes, Waves, Wetlands, and Wind*
- *Return to Sender: A Story About Littering*
- *Recycle Rex* (starring Disney's hip animated recycling dinosaur)
- *The Energy Savers* (starring Donald Duck, Mickey Mouse, and Goofy)
- *Zort Sorts: A Story About Recycling*
- *The Great Search — Man's Need for Power and Energy*

Bill Nye, the Science Guy, is now available on DVD. The DVDs include a Bi-Lingual (Spanish) mode, Interactive Science Quiz and Glossary, Bonus Footage and extended 20-page Teacher's Resource Guide.

Our new ABC News Classroom Edition video series includes one curriculum set entitled *The Final Frontier* concerning the space program. The individual titles in this set are: "The Race to the Moon," "The Shuttle Era," "To Mars and Beyond," and "Space Age Technology."

Programs are available for purchase or lease. Call the toll-free number to request a free catalog. **40**

EARTH FOUNDATION

5401 Mitchelldale, B4

Houston, TX 77092

1 (800) 566-6539

(713) 686-9453 (in Houston)

Fax: (713) 686-6561

E-Mail: nhilton@earthfound.com

Web: www.earthfound.com

An organization dedicated to environmental education and conservation.

Each year thousands of schools participate in the Earth Foundation's Rescue the Rainforest Project. Thus far, the network of 10,000 active environmental teachers and students is responsible for raising \$10 million for rainforest conservation through the sale of environmental T-shirts. A "Rainforest Project Kit" is available to educators. The kit, which includes curriculum, videos, instructions, and a ready-made fundraising project, contains everything a school will need to supplement an ecology unit with a teaching method called "Solution-Based Teaching." Upon completion, participating schools receive a certificate recognizing them for the acres adopted and written updates about the area being preserved. Schools that adopt ten or more acres receive a free follow-up video that shows students live footage of the area. Call 1 (800) 5-MONKEY to receive your "Rescue the Rainforest Kit" and for more information about this project or the Coral Reef Rescue Campaign. **41**

EDISON ELECTRIC INSTITUTE (EEI)

701 Pennsylvania Avenue, N.W.
Washington, DC 20004-2696
To order publications: 1 (800) 334-5453
Fax your order: (301) 843-0159
Main number: (202) 508-5000
Web: www.eei.org

EEI is the association of shareholder-owned electric companies.

EEI suggests that you first contact your local electric company. Many utilities have educational programs about energy and the environment for schools. EEI's educational resources are located in the publications catalog online at www.eei.org/products/educational/index.shtml. Publications are available for a fee. **42**

EDISON MUSEUM

350 Pine Street
Beaumont, TX 77701
(409) 981-3089
Fax: (409) 838-2361
E-Mail: info@edisonmuseum.org
Web: www.edisonmuseum.org

A private, nonprofit education foundation that manages the only Edison museum west of the Mississippi River.

Provided are tours of the museum for school and organized tour groups. Films are available to groups not exceeding 35. By mail or over the Web are a series of free information handouts addressing Thomas Edison — the Inventor Bulletin Series. Tours involve a 20-minute orientation through the interactive museum. The exhibits cover Edison's life and his "major" inventions — the incandescent light bulb, the phonograph, and the motion picture camera. Interactive elements include a complete computerized database of Edison's 1,093 U.S. Patents, Edison silent movie sampler, Edison music sampler and a Morse code simulator. The museum is free and open Monday through Friday, 9:00 a.m. to 5:00 p.m. closed on major holidays. **43**

EDUCATIONAL DEVELOPMENT SPECIALISTS

5212 Katella Avenue, Suite 206
Los Alamitos, CA 90720
(562) 799-6002
Fax: (562) 799-6006
E-Mail: kayice@aol.com
Web: EDSpecialists.com or ThinkEarth.org

Curriculum developers and distributors of energy and environmental education programs.

Offers the “Energy Source Education Program” and the “Think Earth Environmental Education Program.” Sponsors nationwide can purchase program units to provide free to schools. Units are also sold directly to teachers and others. “Energy Source” units include “Energy Explorers” for grades 3 and 4, and “People Power” for grades 5 and 6. The award-winning “Think Earth” curriculum contains nine separate units, with videos, for students in pre-kindergarten through middle school. See Web site for descriptions of each unit. **44**

EDUCATIONAL DIVIDENDS

302 West Hill Street, Suite 102
Champaign, IL 61820
(877) 359-9444
Fax: (217) 359-9446
E-Mail: carol@educationaldividends.com
Web: www.educationaldividends.com

Develops educational products that are designed to change the classroom paradigm to consistently produce creative self-learners who are employable.

Using its AND Model, offers classroom activities, curriculum and professional development that integrates technology, standards-based learning, leadership and workplace skills. To learn more about Educational Dividend’s products and services, visit the above Web site. **45**

EDUCATORS FOR THE ENVIRONMENT

664 Hilary Drive
Tiburon, CA 94920
(415) 435-1527
E-Mail: energyforkeeps@aol.com
Web: www.energyforkeeps.org

A nonprofit educational organization founded to increase awareness and understanding of renewable energy.

“Energy for Keeps” is an illustrated guide to electricity from renewable energy. A text for all, plus class activities and science standards correlations (California and National), for grades 6 through 12. Comprehensive, inter-disciplinary, inquiry-based information available at www.energyforkeeps.org. **46**

ENERGY OUTREACH COLORADO - ENERGY HOG CAMPAIGN

225 E. 16th Avenue, Ste. 200
Denver, CO 80203
(303) 825-8750
Fax: (303) 825-0765
E-mail: mellingson@energyoutreach.org
Web: www.energyhog.org

Energy Outreach Colorado is the leading nonprofit organization in Colorado that works to ensure that Colorado's low-income households can meet their home energy needs.

The Energy Hog Campaign is a national public service advertising campaign created by Energy Outreach Colorado and the Ad Council along with the U.S. Department of Energy, The Home Depot, North American Insulation Manufacturers Association and twenty state energy offices. This campaign targets children between the ages of 8 and 13 as well as adults. It features a dastardly new character, the Energy Hog, who puts an exciting face to the invisible concept of wasting energy, taking a topic of low interest and making it fun for children, while empowering them to take the lead at home in inspiring their parents to make wise energy choices.

Teacher and student curriculum for an Energy Hog Traveling Road Show has been developed through the efforts of Energy Outreach Colorado, the Colorado EnergyScience Center and the Colorado Governor’s Office of Energy Management and Conservation. The Road Show is a school assembly performance that assists teachers in educating their students on the consequences of wasting energy and what we can do to save energy. The curriculum designed for this program is available to download on our Web site, www.energyhog.org. It includes a teacher primer that explains the different sources of energy, where energy comes from, why energy is important and how we use energy. It then discusses how to look for Energy Hogs (ways energy is wasted) in your home. The curriculum kit also includes fun and interactive student worksheets like the Energy Hog Primer where kids must fill in blanks to energy related questions. Kids can also play Energy Hog Bingo or become Energy Hog Detectives, and they can learn about energy through the fun Math Challenge. 47

ENERGYNET U.S.

302 West Hill Street, Suite 102

Champaign, IL 61820

(877) 359-ENET (3638)

Fax: (217) 359-9446

E-Mail: carol@educationaldividends.com

Web: www.energynet.net

A nonprofit organization offering standards-based, technology-enriched classroom projects for a moderate fee.

EnergyNet offers teaching material appropriate for all grade levels. Elementary students enjoy finding ways for their homes and schools to save energy through our “Energy Detectives” project. Students in grades 6 through 12 have three choices: “Energy Auditing” provides a great background on the many ways students can reduce the costs of energy in their homes and schools; “Community Energy Consultants” assists students in sharing this knowledge with their community by conducting energy audits on any number of local buildings; and “Energy Engineers” involves students in the process of designing energy

efficiency into school renovation and construction programs. Parents and community members are encouraged to become partners with their schools to promote educational excellence via EnergyNet's "Community Partnership Initiative." To learn more about the hands-on projects and activities, visit the Web site at www.energynet.net. **48**

ENTERPRISE FOR EDUCATION, INC.

1316 Third Street, Suite 103

Santa Monica, CA 90401

(310) 394-9864

Fax: (310) 394-3539

E-Mail: entfored@aol.com

Web: www.entfored.com

Offers booklets for primary and secondary school science classes free from many electric utilities.

Contact the education specialist at your local electric utility. Materials also may be purchased directly from the publisher. A catalog is available. Supplies a variety of 8-, 16- and 32-page *Energy and Environmental Skill Builder* color booklets. Teachers can create short-to-comprehensive units based on the subject and grade level. The following are available:

- *Environmental*
"Using Our Resources Wisely" (grades 2 through 4);
"The Greenhouse Effect and Global Warming" (grades 6 through 12); "Percentages Help an Environmental Engineer" (grades 6 through 8); and "The Clean Air Challenge," 32 pages with video and science experiment kit (grades 8 through 10)
- *Conservation*
"Efficiency of Electric Appliances" (grades 6 through 10); "Climate and Comfort" (grades 6 through 12); "Is Efficiency the Best Energy Source?" (grades 9 through 12); "King Barkley's Almost Birthday Disaster," 32-page booklet plus 11-minute sing-along CD (grades kindergarten through 5); and "Electricity is in the News" (grades 4 through 8)

- *Nuclear Energy*
“Nuclear Reactor” (grades 8 through 12); “The Atom and Radiation” (grades 6 through 12); and “Nuclear Fuel Cycle” (grades 8 through 12)
- *Fossil Fuel*
“Coal: The Once and Future King?” (grades 6 through 9); “Natural Gas” (grades 6 through 12); “Geology of Oil” (grades 6 through 12); and “Refining Oil” (grades 8 through 12)
- *Electricity*
“Mouse House Surprise,” a 32-page teacher big book and student little book (safety) (grades kindergarten through 2); “Sam and Jody Save the Circus” (safety) (grades 2 and 3); “Paths for Electricity” (safety) (grades 3 through 5); “Energy Transformations” (grades 4 through 9); “Generating Electricity” (grades 5 through 9); “Sources of Electricity” (grades 5 through 9); “Demand for Electricity” (grades 6 through 9); “Working With Energy Graphs” (grades 6 through 12); “Measuring Helps an Electrician Wire an Apartment” (grades 4 through 6); “An Electrical Engineer Plans an Electrically Safe Outdoor Concert” (safety) (grades 5 through 9); “Electricity from Wind, Water & Sunlight” (grades 4 through 8), which includes a lab activity kit; and “Risk: Taking Chances, Making Choices” (grades 6 through 10)
- *Waste Management*
“Hazardous Wastes from Homes,” 40 pages and a 48-page teacher’s guide (grades 9 through 12)
- *Water*
“The Day the Water Stopped” teacher big book and student little book (grades kindergarten through 2) **49**

ENVIRONMENTAL HAZARDS MANAGEMENT INSTITUTE (EHMI)

10 Newmarket Road
P.O. Box 932
Durham, NH 03824
1-800-558-3464
(603) 868-1496
Fax: (603) 868-1547
E-Mail: swolfert@ehmi.org
Web: www.ehmi.org

An independent, nonprofit environmental, health, and safety education and research institute working to promote environmental responsibility at home, in the workplace, and in the community through education and relationship building.

Offers environmental, health, and safety education and outreach materials for adults and children. Topics include recycling/buy recycled; energy efficiency/conservation and indoor air quality; household chemical product management; water quality; lead poisoning prevention; used oil recycling; composting; and more. The balanced, well-researched information is offered in a variety of formats, including enviro-wheels (slide-charts); tabloid publication for school children; bookcovers; color-in activity books; color-in posters; and videos. There is a fee for all educational materials. Discounts are available on bulk orders. A free price list is available. **50**

EV MEDIA

1316 Third Street, Suite 103
Santa Monica, CA 90401
(310) 394-3980
Fax: (310) 394-3539
E-Mail: ab50@aol.com
Web: www.entford.com (click on Electric Transportation button)

An educational publishing company providing electric vehicle-related materials.

Provides publications and activity kits on electric vehicles (EV) for schools and the general public. Materials range from

color booklets for secondary school students to teacher guides, electric vehicle model kits, and discussion leader guides free from many electric utilities with EV programs. Materials cover electric vehicles, electricity, energy efficiency and conservation. Titles include: *Electric Car*, a 16-page color booklet (for grades 7 through 12); the 148-page *Teacher's Electric Car Book*, everything a teacher needs to conduct a unit on electric vehicles; "The Electric Flyer Model Kit," which includes everything needed to build a working, table-top size model electric vehicle; and "The Electric Vehicle Classroom Kit," which includes a classroom set of color booklets; the *Teacher's Electric Car Book*; and five to eight "Electric Flyer Model" kits. The battery/charger option for the EV "Classroom Kit" includes five to eight rechargeable 1.5 volt AA Ni-cad batteries and a four-unit battery charger. Revised materials now include optional motor controller kits, with detailed assembly instructions included in the expanded *Teacher's Electric Car Book*. Contact your electric utility electric vehicle department for these materials, which are often offered at no cost to educators. Materials are also available directly from publisher. Call the number above for latest pricing information. **51**

FIRSTENERGY CORP.

Community Initiatives Department
76 South Main Street
Akron, OH 44308-1890
(330) 761-4247
Fax: (330) 761-4203
E-Mail: tgilman@firstenergycorp.com
Web: www.firstenergycorp.com/education/

FirstEnergy Corp. is a registered holding company headquartered in Akron, Ohio. Its seven electric utility-operating companies comprise the Nation's 4th largest investor-owned electric system, serving 4.3 million customers within 36,100 square miles of Ohio, Pennsylvania, and New Jersey.

FirstEnergy's energy education program provides Math, Science and Technology grants and free supplemental resources to educators, youth group leaders, and civic organizations in the communities served by FirstEnergy and our operating companies

- Ohio Edison, The Illuminating Company, Toledo Edison, Penn Power, Met-Ed, Penelec, and Jersey Central Power & Light - and where we have facilities. These resources can be ordered online at www.firstenergycorp.com/education/.

In addition, check out the latest addition to our site - "The Electric Avenue." This interactive site - offering a world of information on electrical safety, energy sources and efficiency - is designed to be an excellent classroom resource. Electric Avenue also features fun energy-related games and facts geared to all grade levels. **52**

FLORIDA POWER & LIGHT COMPANY (FPL)

Energy Encounter

6501 South Ocean Drive

Jensen Beach, FL 34957

1 (877) FPL-4FUN (toll free) or 1 (877) 375-4386

Fax: (772) 467-7565

Web: www.fpl.com/encounter

A regulated investor-owned utility serving approximately 4 million customers in Florida.

FPL's Energy Encounter is a free energy information center that offers interactive exhibits featuring fun and entertaining information about energy, electricity, magnetism and nuclear power. Visitors embark on a treasure hunt exploring the riches of energy to discover that a souvenir awaits all who find the answers to the energy-related questions. Hands-on educational programs designed to meet State science curriculum are offered throughout the school year for grades 1 through 12 (by reservation only). Teacher workshops are offered focusing on science education, energy, and nuclear related topics. Self-guided tours of the Turtle Beach Nature Trail are available. On selected days the marine life touch tank and the College of Turtle are also offered. For more information, call FPL's Energy Encounter toll-free at 1 (877) FPL-4FUN or 1 (877) 375-4386. Or visit our Web site at www.fpl.com/encounter for directions, hours of operation, and upcoming special events. **53**

FLORIDA SOLAR ENERGY CENTER (FSEC)

1679 Clearlake Road

Cocoa, FL 32922

(321) 638-1000

Fax: (321) 638-1010

E-Mail: info@fsec.ucf.eduWeb: www.fsec.ucf.edu/ed/teachers and <http://energywhiz.com>

FSEC is a research institute of the University of Central Florida.

FSEC currently has several free downloadable curriculum units available on their Web site. The units include hands-on activities and PowerPoint presentations that align to science standards. The solar energy units include “Solar Matters I - III” for elementary and middle school students, “Understanding Solar Energy” for high school students, and “Solar Wonders”, a PowerPoint presentation on the uses of solar energy. The environmental unit, “Alternative Fuel Matters” is for middle school students, while the Planet Janitor video and coloring book (available on the Energy Whiz site) are for elementary students. A new energy efficiency unit, “Building Performance Matters” is available for high school students. The Energy Whiz Web site features student projects and submissions that deal with energy as well as experiments and hands-on activities that can be performed at home. A lending library of classroom materials is available for Florida teachers. **54**

FOODSERVICE & PACKAGING INSTITUTE, INC. (FPI)

150 South Washington Street, Suite 204

Falls Church, VA 22046

(703) 538-2800

Fax: (703) 538-2817

E-Mail: fpi@fpi.orgWeb: www.fpi.org

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, aluminum, and alternative materials products. Foodservice

& Packaging Institute, Inc., supports the environmentally responsible manufacture, distribution, use, and disposal of foodservice disposables.

FPI offers a free teacher's kit (new version available on CD or FPI's Web site) that includes educational materials for middle school environmental science educators. This kit contains a full range of information and student activities, including a new interactive Web page. FPI also offers one-page issue sheets appropriate for middle and high school students on environment and sanitation. These explain the importance of foodservice disposable products to today's consumers. Single copies of these FPI publications are free to educators. Contact FPI for larger quantities. For additional information about other publications, visit the Web site above. **55**

FREY EDUCATIONAL RESOURCES

100 Paragon Parkway

Mansfield, OH 44903

1 (800) 225-3739

Fax: 1 (877) 256-3739 or (419) 589-1546

E-Mail: customercare@freyscientific.com

Web: www.freyscientific.com

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

Offers a general science catalog that includes over 100 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. **56**

FUEL CELLS 2000

1625 K Street, N.W., Suite 725
Washington, DC 20006
(202) 785-4222
Fax: (202) 785-4313
E-Mail: info@fuelcells.org
Web: www.fuelcells.org

Fuel Cells 2000 is a nonprofit program to educate people around the world about the potential benefits of fuel cells, an advanced energy generation technology. Fuel cells combine hydrogen and oxygen electrochemically to produce energy. The only byproducts are water and useful heat.

Produces fuel cell information brochures and sends free information packets in response to requests from students, teachers, and the general public. Some publications include the *Fuel Cells in Transportation* brochure, the *Fuel Cell Quarterly*, the free monthly *Fuel Cell Technology Update*, and comprehensive charts (Fuel Cell Vehicles, Fuel Cell Buses, Worldwide Hydrogen Fueling Stations). Also distributes material developed by other organizations, including the *Fuel Cells — Green Power* brochure. The Fuel Cells 2000 Web site provides basic fuel cell information, as well as extensive links; FAQs, a news group; an online bibliography of books and articles; and a gallery of fuel cell product images. Fuel Cells 2000 has a “Fuel Cell Career Center” with company job pages for professionals and educational resources, lesson plans, and experiments for teachers and students, as well as the “Fuel Cell Match Maker,” an online message board. **57**

GENERAL ATOMICS SCIENCES EDUCATION FOUNDATION

3550 General Atomics Court
San Diego, CA 92121-1194
(858) 455-3335
Fax: (858) 455-3379
E-Mail: pat.winter@gat.com
Web: fused.gat.com

A high technology research and development center.

Offers information to middle and high school teachers and students regarding current U.S. and worldwide nuclear fusion research that is aimed at understanding plasma science and fusion technology and their roles in providing an energy resource for tomorrow's needs. Available materials include a 20-minute video (Spanish, French, or English), "Fusion: Creating a Star on Earth"; "STARPOWER," an interactive learning adventure CD; and a teacher resource guide packed with experiments and a workbook on the electromagnetic spectrum, plasma, and radiation. Classroom posters on fusion, radiation, and the electromagnetic spectrum are also available. These items are available free while supplies last. *Requests must be sent on school letterhead.* No requests honored by phone. Please visit at the above Web site. **58**

GEOHERMAL EDUCATION OFFICE

664 Hilary Drive
Tiburon, CA 94920
(415) 435-1527
Fax: (415) 435-7737
E-Mail: geo@marin.org
Web: www.geothermal.marin.org

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

Provides free booklets, posters, and selected geothermal industry publications (some in class sets). Available for a fee are high school-and elementary school-level videos; an activity-packed geothermal curriculum for grades 4 through 8; and a set of classroom activities for grades 6 through 12 (free with purchase of video). A geothermal slide show (PPT) CD containing 122 colorful graphics and photos is also available for sale. See www.geothermal.marin.org. **59**

GEOHERMAL HEAT PUMP CONSORTIUM

6700 Alexander Bell Drive, Suite 120

Columbia, MD 21046

(888) ALL-4-GEO or (410) 953-7150

Fax: (410) 953-7151

E-Mail: info@ghpc.org

Web: www.geoexchange.org

Celebrating its tenth year in existence, the Geothermal Heat Pump Consortium has been working to increase the awareness and use of geexchange technology throughout the United States and the world. The Consortium, a nonprofit advocacy association, believes that the responsible use of energy resources are crucial to the nation's economy and our quality of life. Toward that end, increasing the use of geexchange technology will not only dramatically reduce our national energy consumption and greenhouse gas emissions, but also will slash its users' energy costs, and our Nation's dependence on fossil fuels.

The Geothermal Heat Pump Consortium acts as a resource for anyone wishing to know more about geexchange technology. Our information catalogue includes items specifically addressing geexchange installations in schools, homes, and businesses, as well as more generalized topics. We offer all of our full-color brochures, case studies, reports and documentaries on our Web site at www.geoexchange.org. Additionally, we will mail out copies of any of our materials to teachers and students free of charge. Our full-time staff and industry allies can also provide one-on-one technical expertise, marketing research data and insight, and current industry activity status to interested parties via e-mail or over the phone. **60**

HAWAIIAN ELECTRIC COMPANY, INC.

Education and Consumer Affairs Division
900 Richards Street
Honolulu, HI 96813
(808) 543-7511
Fax: (808) 543-7412
Web: www.heco.com

An investor-owned electric utility that serves the island of Oahu, in the State of Hawaii.

Hawaiian Electric Company and its subsidiaries, Maui Electric Company and Hawaii Electric Light Company, provide free teaching materials to kindergarten through 12th grade educators located on the islands of Oahu, Maui and Hawaii. Services include free books and school-based presentations, as well as loaning of CD Roms and videos related to electrical safety, basic electricity, energy conservation, renewable energy, and careers in the electric utility industry; the Electron Marathon — an annual electric vehicle competition open to high school students; Solar Sprint — a miniature solar model car project for middle school students; the Invention Convention — elementary school students take an abstract idea and turn it into a tangible three-dimensional model; and The Electric Universe — Web page at www.heco.com that provides students and teachers alike with electrifying information. For details on these programs, visit www.heco.com and go to Generation e. **61**

HONOLULU CLEAN CITIES

Alternative Transportation Fuels Program
c/o City and County of Honolulu
1000 Uluohia Street
Kapolei, HI 96707
(808) 587-3809
Fax: (808) 587-3820
E-Mail: mtome@dbedt.hawaii.gov
Web: www.state.hi.us/dbedt/ert/cc

A nonprofit organization participating in the U.S. Department of Energy's "Clean Cities" program. Members are fleet managers,

fuel providers and utilities, government agencies, environmental organizations, and other experts in alternative transportation fuels and alternative fueled vehicles.

Provides a wide array of free alternative fuel- and vehicle-related videos, presentations, and publications to educators, students, fleet managers, and community groups in Hawaii. Other services include tours, alternative fuel displays, workshops, and “ride-and-drive” demonstrations of propane, biodiesel, and electric vehicles. Publisher of *Hawaii’s Fun-Fueled Activity Book*, a 32-page book that introduces alternative fuels, pollution, and global warming through games, crossword puzzles, word searches, and “fill-in-the-blank” activities. The activities are suitable for grades 4 through 6; the fact sheets for grades 4 through 12. These activities and fact sheets can be downloaded in the original Microsoft Word format from the Web site listed above. Permission is given to use and modify the fact sheets and activities for non-commercial uses. **62**

ILLINOIS DEPARTMENT OF COMMERCE AND ECONOMIC OPPORTUNITY

Office of Coal Development

620 East Adams

Springfield, IL 62701

(217) 524-3820

Fax: (217) 558-2647

E-Mail: Linda_Dunbar@commerce.state.il.us

Web: www.illinoiscoal.biz

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

Provides materials on coal production, distribution, usage, research, development, and demonstration of clean coal technologies. Materials available include: *From the Coal Mines to the Power Lines*, a teaching resource manual covering the formation, history and uses of coal, coal mining, reclamation, as well as clean coal technologies. The manual contains lesson

plans and hands-on activities for grade level sections K-4, 5-8, and 9-12. Included with each manual are age-appropriate booklets, handouts, and posters. All materials are free. Coal awareness and education efforts target the general public through the media, schools, and special programs in an attempt to diffuse myths regarding coal and to disseminate sound, scientific information. An order form listing all the various publications is available upon request. A CD-ROM accompanies each of the three grade level sections. Each CD deploys a PowerPoint Presentation highlighting glossaries of terms through the use of captions, questions, photos, clip art, descriptions and music. **63**

INDEPENDENT PETROLEUM ASSOCIATION OF AMERICA

Information Services Department

1201 15th Street, N.W., Suite 300

Washington, DC 20005

(202) 857-4722

Fax: (202) 857-0444

E-Mail: flawrence@ipaa.org or govrel@ipaa.org

Web: www.ipaa.org

The national association represents 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 (OPI)* compiles exploration and production statistics for each producing State in a simple manner, suitable for junior and senior high school students. The new edition of the OPI is 2003-2004. In addition, the association provides a statistical brochure entitled *U.S. Petroleum Statistics* that contains 19 tables of statistical data for oil and natural gas.

64

THE INSTITUTE FOR CHEMICAL EDUCATION (ICE)

Department of Chemistry
University of Wisconsin—Madison
1101 University Avenue
Madison, WI 53706-1396
1 (800) 991-5534
(608) 262-3033
Fax: (608) 265-8094
E-Mail: ICE@chem.wisc.edu
Web: <http://ice.chem.wisc.edu>

A nonprofit educational organization providing chemistry resources and graduate-level workshops for kindergarten through grade 12 teachers to better integrate hands-on chemistry into their classrooms.

Provides chemistry education materials and workshops to kindergarten through grade 12 teachers throughout the world. The publications, kits, and workshops are designed to help teachers include hands-on science activities in their everyday classrooms. ICE's *Topics in Chemistry* series provides background chemical and environmental information on everyday topics. Topics include: *Acid Rain* — a brief history of acid precipitation; the sources of gases that cause acid rain and their conversion to acid in the atmosphere; details of the effects of acid precipitation on the environment; and available alternatives to reduce emissions that contribute to acid rain. *Acid Rain, Experimental Supplement* — five experiments showing the effects of acid rain on the environment, using easy-to-find materials; notes on presentation and curriculum integration are included. *The Hole in the Ozone Layer* — the chemistry, uses, and importance of ozone and chlorofluorocarbons; a history

of theories involving their interactions in the atmosphere; the effect of ozone depletion on life; examination of changes in public policy; and the response of industry. *Nanocrystalline Solar Kit* — enough materials to make five solar cells (most of the materials can be reused) and a booklet with information on the origins of photosynthesis, use of fossil fuels and renewable energy sources and the effects on the environment. The solar cells use natural dyes from berries and a common paint pigment to generate electricity from light. The booklet contains detailed laboratory directions for assembling a solar cell and circuit set-ups to measure the electrical output of the cell. **65**

INTERSTATE OIL AND GAS COMPACT COMMISSION

900 N.W. 23rd St.

Oklahoma City, OK 73105

(405) 525-3556

Fax: (405) 525-3592

E-mail: gerry.baker@iogcc.state.ok.us

Web: www.iogcc.state.ok.us

A government organization representing the governors of 30 oil and natural gas producing states, the IOGCC is a leading advocate for the conservation of domestic, onshore oil and gas by minimizing wasteful production practices and protecting the environment.

The IOGCC publishes both technical and non-technical information on issues related to the production of natural gas and crude oil onshore the United States. Its Web site includes information on careers in professions important to the vitality of the U.S. oil and gas industry; the importance of research and development in exploration, production and conservation; statistics on the large number and production from low-volume wells that contribute significantly to the nation's energy supply; and various position statements reflected in resolutions adopted by the organization. A complete catalog of information is available on-line at www.iogcc.state.ok.us. **66**

**INTERSTATE RENEWABLE ENERGY COUNCIL'S (IREC)
SCHOOLS GOING SOLAR CLEARINGHOUSE**

P.O. 1156

Latham, NY 12110-1156

Phone/Fax: (518) 458-6059

E-mail: Vicki@irecusa.org

Web: www.schoolsgoingsolar.org

The Interstate Renewable Energy Council's (www.irecusa.org) mission is to accelerate the sustainable utilization of renewable energy sources and technologies in and through state and local government and community activities. IREC supports market-oriented services targeted at education, coordination, procurement, the adoption and implementation of uniform guidelines and standards, and consumer protection. The Schools Going Solar Clearinghouse is one of a suite of programs/projects administered by IREC.

Schools are GOING SOLAR! Bringing solar energy to schools is an important first step to increasing the use of solar energy in the entire community. Schools make excellent showcases for displaying the benefits of solar energy. Students learn about solar energy, and then can educate their parents and other adult members of the community about these technologies.

This SGS Clearinghouse and its Web site are all about building a network, a community of people who can share experiences with solar energy in schools. Teachers, students, school and community officials and the general public should find the information contained in this Web site very useful in getting a project going, making an existing project more effective, and helping get the word out about these projects all over the country.

The SGS Clearinghouse also issues a monthly e-newsletter, maintains a database of solar schools, facilitates contact among teachers in solar schools, links interested people together to exchange information/resources, and provides educational materials such as brochures, videos, lesson plans, etc. Go to: www.schoolsgoingsolar.org. Explore the annotated links (many with free downloadable education materials), read the monthly newsletters, contact the people listed, and let us know if there is any way we can be of assistance. **67**

JEA

21 West Church Street
Jacksonville, FL 32202
(904) 665-6000
Fax: (904) 665-7386
E-Mail: smitrh@jea.com
Web: www.jea.com

JEA is the eighth largest municipal utility in the country, providing electric, water, and sewer services to its customers. The JEA electric system currently serves more than 360,000 customers in Jacksonville and parts of three adjacent counties. JEA's water system serves more than 240,000 water customers and 186,000 sewer customers, or more than 80 percent of all water and sewer utility customers in northeast Florida.

JEA provides free energy and sewer and water educational resources (booklets, posters, kits, etc.) to schools **within the JEA service area**. Services include student and teacher materials for kindergarten through grade 12; speakers; teacher workshops and programs with affiliates E. Dale Joyner Nature Preserve at Pelotes Island, Tree Hill Nature Center, and the JEA Science Theatre and AquaExpo at the Museum of Science and History. This exhibit is made up of two parts - the JEA Science Theatre and the AquaExpo. Kids visiting the theatre will participate in interactive science shows and learn about scientific theories as they relate to electricity and electrical safety. The AquaExpo focuses on the scarce and precious nature of water and how we can do our part to conserve it. **68**

JOHNSON CONTROLS, INC.

Academy of Energy Education
507 East Michigan Street
Milwaukee, WI 53202
(414) 524-5574
Fax: (414) 524-5030
E-Mail: michelle.l.tanem@jci.com
Web: www.johnsoncontrols.com

Provides facility services and building control system solutions to meet the specific needs of all types of nonresidential buildings, including training staff to operate equipment more efficiently; installing, maintaining, and servicing HVAC controls and mechanical systems, lighting controls, and life safety systems; performance contracting; and complete outsourcing operations.

Offers, in partnership with the National Energy Foundation, a curriculum-enhancing program that promotes energy education in kindergarten through grade 12-plus and expands into a school-to-work transition experience. Designed to encourage students to explore energy usage and its impact on the environment, the Academy of Energy Education programs include: Energy Fun for kindergarten through grade 3; Energy Fundamentals for grades 4 through 6; Energy Action Patrol for grades 5 through 8; Energy Action Teams for grades 6 through 9; and Energy Action Technology for grades 9 through 12. For high school students, the Academy features career exploration. College students can participate in externships in exchange for college credits granted by Utah State University. Each program contains a Polaroid camera and film packet to integrate visual learning aspects and the Energy Action Challenge for personal application of energy conservation. For more information, call your local Johnson Controls office or (888) 214-0916. **69**

KEEP AMERICA BEAUTIFUL, INC.

1010 Washington Boulevard

Stamford, CT 06901

(203) 323-8987

Fax: (203) 325-9199

E-Mail: info@kab.org

Web: www.kab.org

Keep America Beautiful is the Nation's largest nonprofit public education and community improvement organization whose network of more than 540 city, county, statewide, and international affiliates engages individuals in programs that prevent litter and reduce, reuse, recycle, and properly manage waste materials. Through partnerships and strategic alliances with citizens, businesses, and government, Keep America Beautiful programs motivate millions of volunteers annually to clean up, beautify, and improve their neighborhoods, creating safer and more livable community environments.

Offers educational resources for teachers and students to provide a balanced perspective of waste and the options for its management in clear and user-friendly formats. The classroom curriculum supplement "Waste In Place," for grades kindergarten through 6, builds critical thinking, processing, and problem-solving skills through imaginative, hands-on lessons. Lessons can be taught individually or in sequence. Developed and field-tested by professional educators and waste experts, the curriculum supplement is being used nationwide by thousands of teachers to influence positive behavior, foster social responsibility and respect for the environment, and enrich the learning experience. Learn more about Keep America Beautiful at www.kab.org. **70**

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
E-Mail: kidsface@mindspring.com
Web: www.kidsface.org

A nonprofit children's environmental organization.

Provides free membership to children and teachers. Included with membership is the guide *Our World, Our Future: A Kids Guide to Kids for a Clean Environment* and a membership certificate. Material focuses on environmental topics and offers proactive projects that can be performed at home or at school. Their current project is the Earth Odyssey Campaign, a campaign that will focus on air quality issues, land conservation through recycling, and the creation of wildlife habitats. For information, send a self-addressed stamped envelop to the address above. **71**

KISSIMMEE UTILITY AUTHORITY (KUA)

Office of Corporate Communications
P.O. Box 423219
Kissimmee, FL 34742-3219
(407) 933-7777
Toll-free: (877) 582-7700
Fax: (407) 933-1761
E-Mail: cgent@kua.com
Web: www.kua.com

Florida's sixth largest municipally-owned utility providing electric, water, and telecommunication services to 170,000 residents in five Central Florida counties.

Provides free energy educational resources (coloring books, booklets, calendars, posters, kits, audiovisual materials, etc., for use in kindergarten through grade 12) to schools **within the KUA service area**. Services include student and teacher materials, speakers' bureau, powerplant and energy control center tours. A free color brochure highlighting the services and materials is available upon request. **72**

MIDWEST RENEWABLE ENERGY ASSOCIATION

7558 Deer Road
Custer, WI 54423
(715) 592-6595
Fax: (715) 592-6596
E-Mail: info@the-mrea.org
Web: www.the-mrea.org

A grassroots private nonprofit educational organization dedicated to promoting renewable energy and energy efficiency through education and demonstration.

Offers special workshop series for teachers, children, and the general public. Hosts the Renewable Energy and Sustainable Living Fair every June in Central Wisconsin. This annual event features workshops, exhibits, speakers, a model home, renewable energy home tours, alternatively fueled vehicle showcase, regional Junior Solar Sprint competition, entertainment, and more. Offers year-round workshops on renewable energy and energy efficiency. *ReNews*, a quarterly newsletter, is available for a minimal fee. 73

MINERAL INFORMATION INSTITUTE (MII)

501 Violet Street
Golden, CO 80401
(303) 277-9190
Fax: (303) 277-9198
E-mail: mii@mii.org
Web: www.mii.org

A nonprofit educational organization providing free resources and contacts to support classroom teachers.

Provides mineral and energy information at no cost to classroom teachers. Companies and other organizations may purchase MII materials at a nominal cost. Materials include videos, posters, lessons, and activities. The purpose of all materials is to increase awareness that Everything We Have and Everything We Use Comes From Our Natural Resources. MII sponsored and continues to support revisions to the high school integrated

science textbook, *Global Science: Energy, Resources, Environment*. Teachers should write on school letterhead to request free materials. Virtually all of MII's materials can be downloaded for free from the Web site. 74

**MINNESOTA DEPARTMENT OF COMMERCE —
ENERGY DIVISION**

85 7th Place East, Suite 500
St. Paul, MN 55101
(651) 296-5175
1 (800) 657-3710
Fax: (651) 297-7891
E-Mail: energy.info@state.mn.us
Web: www.commerce.state.mn.us

The State Energy Office provides a broad range of energy information to the general public. The State Energy Office also promotes energy efficiency and sustainable energy resource and technology development in Minnesota.

Provides a wide range of energy conservation materials for the general public. Educational materials are targeted to residential, commercial, and industrial audiences. This information is designed to encourage specific conservation practices and to increase public awareness of energy and energy-related issues. Some of these free materials may be appropriate for students in grades 6 through 12. The Department's Energy Information Center has a full-time staff to provide individualized responses to consumers' energy-related questions. All printed materials and software are available through the Department's Web page. 75

**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
(NASA)**

300 E Street, S.W., Code FE
Washington, DC 20546-0001
Web: <http://education.nasa.gov>

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.

NASA's Education Home Page serves as a cyber-gateway to information regarding educational programs and services offered by NASA for educators and students across the United States. This high-level directory of information provides specific details and points of contact for all of NASA's educational efforts and Field Center offices.

Educators and students utilizing this site will have access to a comprehensive overview of NASA's educational programs and services, along with a searchable program inventory that has cataloged NASA's educational programs. NASA's online home pages, offered by NASA's five areas of research and development, include the Aerospace Technology, Biological and Physical Research, Earth Science, Human Exploration and Development of Space, and Space Science. **76**

NATIONAL ARBOR DAY FOUNDATION

100 Arbor Avenue
Nebraska City, NE 68410
(402) 474-5655
Fax: (402) 474-0820
E-Mail: Education@arborday.org
Web: www.arborday.org

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

Provides free information on tree planting and care, including correctly planting windbreaks and shelterbelts, in the *Conservation Trees* and *Trees for America* brochures, as well as the *Celebrate Arbor Day Guidebook*. For elementary and middle school-aged children, the National Arbor Day Foundation also has available, for a nominal fee, curriculum kits that stress the contributions made by trees and the importance of environmental stewardship. For samples of the free educational materials and to receive information about the curriculum kits, write or call to request an *Educational Resource Guide*. **77**

NATIONAL ASSOCIATION OF CONSERVATION DISTRICTS (NACD)

509 Capitol Court, N.E.
Washington, DC 20002-4949
(202) 547-6223
Fax: (202) 547-6450
Web: www.nacdnet.org

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 on America's private working land.

Sponsors conservation education recognition programs for primary and secondary school teachers, as well as a poster contest for students. Publishes and sells educational materials about conserving soil and water and other natural resources. **78**

NATIONAL CORN GROWERS ASSOCIATION (NCGA)

632 Cepi Drive
Chesterfield, MO 63005
(636) 733-9004
Fax: (636) 733-9005
E-Mail: corninfo@ncga.com
Web: www.ncga.com

Actively represents the interests of producers of the Nation's top grain crop. Membership includes 33,000 growers in 48 States and 44 affiliated State corn grower organizations. NCGA's mission is to create and increase opportunities for corn growers in a changing world and to enhance corn utilization and profitability.

The organization provides teachers with a downloadable Web-based educational program, "Corn in the Classroom," which illustrates corn as a reservoir of energy and a renewable substitute for products made from expendable fossil fuels. Also,

The World of Corn resource booklet, a statistical look at corn markets and trends, is available for download from our Web site. The booklet, which is free up to 25 copies, can be requested by contacting the organization. Additional copies cost \$3.00 per copy. **79**

NATIONAL COTTON COUNCIL OF AMERICA

Education Materials
1918 North Parkway
Memphis, TN 38112
(901) 274-9030
Fax: (901) 725-0510
Web: www.cotton.org

A nonprofit commodity organization representing 25,000 producers and processors of raw cotton. The organization is dedicated to strengthening the cotton industry's ability to compete effectively and profitably in the raw cotton, oilseed, and manufactured product markets at home and abroad.

Provides a variety of downloadable and audiovisual materials on cotton (www.cotton.org), 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 industry's major pests, such as plowing down cotton stalks after harvest, the strategic placement of traps baited with pheromone (sex attractant), and the judicious application of crop protection products. **80**

NATIONAL COUNCIL ON ECONOMIC EDUCATION

1140 Avenue of the Americas
New York, NY 10036
1 (800) 338-1192
Fax: (212) 730-1793
E-Mail: sales@ncee.net
Web: www.ncee.net

The National Council on Economic Education is a nonprofit organization dedicated to educating students in the principles of

economics and personal finance. Visit our Web site or contact us for information on Teacher Resource Manuals, Student Activity books, and curriculum development materials to assist educators in the K-12 classroom.

The following lessons are offered for a nominal fee. They can be reviewed on the Web site above:

Economics and the Environment — Helps high school students understand the crucial relationship between activity and environmental protection. Activities include courses in environmental studies, economics, natural sciences, social issues, and global issues.

Classroom-tested lessons give students insight into a variety of environmental issues. Students learn key concepts — how natural resources are used and why, at times, misused, and how future economic activity can provide for environmental protection, as well as for economic growth. Selected by World Wild Life and North American Association for Environmental Education as an exemplary resource to help teach about biodiversity.

Economics and the Environment EcoDetectives — Applying economic reasoning to environmental problems for middle school students. Students learn about protecting endangered species, recycling, and resource depletion. Students solve persistent environmental mysteries. Materials highlighted by California Integrated Waste Management Board and California Department of Education, together with the Acron Group.

The Great Economic Mysteries Book — Students in grades 9 through 12 solve engaging mysteries about environmental issues, natural resources, recycling, waste management, and government issues.

The Wide World of Trade — Through trade simulations and activities, students discover how scarce resources are allocated in order to provide goods and services. **81**

NATIONAL ENERGY EDUCATION DEVELOPMENT (NEED) PROJECT

8408 Kao Circle
Manassas, VA 20110
(703) 257-1117
Fax: (703) 257-0037
E-Mail: info@need.org
Web: www.need.org

A national network of students, educators, and business, government and community leaders dedicated to the design and delivery of comprehensive, non-biased kindergarten through 12th grade energy education curriculum.

By meeting local, state, and national education standards, NEED programs provide students and teachers an opportunity to learn about energy through hands-on science, math, drama, social studies, art, and music. Student leadership initiatives encourage students to work with their peers, teachers, family, and community to design energy education programming for their region. The curriculum package is a six- to nine-week unit and is widely adopted for use in the classroom. Memberships are available to educators for little or no cost, based on availability of sponsorship, from NEED's partners and sponsors. Participating educators receive the NEED 2004-2005 Energy Kit with teacher guides to a variety of activities and a full catalog of free items to complete their units based on their grade level. The materials include *Energy Infobooks* on the Nation's leading energy sources; curriculum guides that help teachers plan comprehensive units to include the science of energy, energy sources, electricity, efficiency and conservation; and many evaluation/assessment and reinforcement options. A variety of training programs for teachers, students, and energy professionals are available throughout the year, and week-long summer training is offered annually. NEED's Web site has resources to teach an entire NEED unit available in PDF and other formats. Science Fair Projects, Alternative Transportation Fuels activities, and new Biodiesel and Ethanol components are available. As a recipient of a U.S. Department of Energy

grant for hydrogen education, NEED will launch its hydrogen education and outreach programming in the fall of 2005. Watch www.need.org for more information. For more information about NEED and our programs, visit www.need.org and our EIA partnership project, the EIA Kid's Page, at www.eia.doe.gov/kids.

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NATIONAL ENERGY FOUNDATION (NEF)

Resources for Education

National Office

3676 California Avenue, Suite A117

Salt Lake City, UT 84104

(801) 908-5800

Fax: (801) 908-5400

E-Mail: info@nef1.org

Web: www.nef1.org

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

Major initiatives include the Igniting Creative Energy Challenge, a national competition where K-12 students use their creativity to express their ideas related to being energy conscious. Entries include original art, music, literature, computer graphics, multimedia presentations, science projects, etc. NEF is also a Rebuild America strategic partner, working with school districts, state energy offices, and other partners nationwide to help bring down energy usage and costs at schools across the country. NEF continues to produce new energy-related instructional materials for K-12 teachers. New items include posters titled "Electrical Generation," "Renewable Energy Sources," and "Energy Management in and around Your School." Currently in development are two new posters, one focusing on high performance schools and the other on oil. NEF provides a wide array of posters, learning activity guides, videos, and instructional music that focus on energy. Available soon will be newly revised learning activities guides titled "Energy Fun," "Energy Fundamentals," and "Energy Action Activities." NEF also distributes instructional materials nationwide through a "fulfillment" program with the natural gas industry, and the

Foundation continues to provide in-service training support to school districts in many parts of the country. **83**

NATIONAL GEOGRAPHIC SOCIETY

School Publishing

1145 17th Street, N.W.

Washington, DC 20036

1 (800) 368-2728

Fax: (515) 362-3366

Web: www.nationalgeographic.com or

www.nationalgeographic.com/education

A nonprofit organization.

Publishes supplemental curriculum materials for kindergarten through 12th grades on electricity, energy efficiency/energy conservation, environment, geosciences/earth sciences, recycling, and water. Materials include GeoKits (thematic, multimedia teaching kits); Windows on Literacy and Reading Expeditions nonfiction books; videos; atlases; PicturePack transparency sets; and PictureShow CD-ROMs. Free catalogs are available upon request at 1 (800) 368-2728. Free lesson plans and resources are offered at www.nationalgeographic.com/education. **84**

NATIONAL HYDROGEN ASSOCIATION (NHA)

1800 M Street, N.W., Suite 300

Washington, DC, 20036-5802

(202) 223-5547

Fax: (202) 223-5537

E-Mail: nha@ttcorp.com

Web: www.HydrogenUS.org

The National Hydrogen Association is an industry-led, not-for-profit association dedicated to removing barriers to the implementation of hydrogen energy systems. The NHA mission is to foster the development of hydrogen technologies and their utilization in industrial and commercial applications and promote the transition role of hydrogen in the energy field.

Publishes the *NHA News*, as well as *Hydrogen Fact Sheets*, and the brochure *Creating a Hydrogen Powered Future*. The *NHA News* is available in electronic format from our Web site and can be used to inform students, grades 9 through 12, of progress in hydrogen technology development. *Creating a Hydrogen Powered Future* is suitable for grades 6 through 12 and is available for a nominal fee if requested in large quantities. **85**

THE NATIONAL HYDROPOWER ASSOCIATION (NHA)

One Massachusetts Avenue, N.W., Suite 850
Washington, DC 20001
(202) 682-1700
Fax: (202) 682-9478
E-Mail: help@hydro.org
Web: www.hydro.org

An association dedicated to building greater public awareness of the advantages of hydropower as our Nation's most plentiful renewable energy source.

Offers a variety of materials on the production of hydropower, hydro's economic and environmental benefits, and the issues facing the hydropower industry. Posters and educational curriculum are available at nominal cost. An annual conference is held every spring. NHA works closely with the Hydro Research Foundation, the U.S. Hydropower Council for International Development, and other organizations dedicated to hydropower and other forms of renewable energy. Staff is available to answer specific questions and to help identify sources of additional information. **86**

NATIONAL OILHEAT RESEARCH ALLIANCE

211 N. Union Street
Alexandria, VA 22314
(703) 519-4204
Fax: (703) 519-4205
E-Mail: info@nora-oilheat.org
Web: www.oilheatamerica.com

An independent, nonprofit organization dedicated to Oilheating.

Publishes a variety of books, reports, consumer guides, and fact sheets. Material covers energy use and efficiency, technical papers, and educational materials for technical training. Prepares video educational materials concerning the Oilheating industry. There is a catalog of materials available at www.norastore.org. All materials are distributed at the cost of production. **87**

NATIONAL PROPANE GAS ASSOCIATION (NPGA)

1150 17th Street, N.W., Suite 310
Washington, DC 20036-4623
(202) 466-7200
Fax: (202) 466-7205
E-Mail: info@npga.org
Web: www.npga.org

Propane Education & Research Council (PERC)

1140 Connecticut Ave., N.W., Suite 1075
Washington, DC 20036
(202) 452-8975
Fax: (202) 452-9054
E-mail: propanesupport@propanecouncil.org
Web: www.usepropane.com

NPGA is the national trade association of the propane industry.

PERC promotes the safe, efficient use of propane as a preferred energy source. Fact sheets, consumer safety brochures with a scratch and sniff feature, coloring books, and industry safety videos are available online at www.propanecatalog.com. Additional information is available on both organizations' Web sites. Homeowners can compare the cost of energy prices on www.usepropane.com. **88**

**NATIONAL RURAL ELECTRIC COOPERATIVE
ASSOCIATION**

Youth Programs
4301 Wilson Boulevard
Arlington, VA 22203
(703) 907-5500
E-Mail: nreca@nreca.coop
Web: www.nreca.org or www.nreca.coop

A service organization representing the Nation's more than 900 nonprofit consumer-owned cooperative electric systems, which provide electric service to more than 36 million people in 47 States.

NRECA publishes both a weekly newspaper and a monthly magazine covering electric co-op and industry issues. Congressional testimony, Regulatory filings, press releases, and other public records are available at the association's Web site at www.nreca.coop. **89**

NATIONAL SCIENCE TEACHERS ASSOCIATION (NSTA)

Publications Sales
1840 Wilson Boulevard
Arlington, VA 22201
1 (800) 277-5300
Fax: (888) 433-0526
E-Mail: pubsales@nsta.org
Web: <http://store.nsta.org>

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

Publishes educational products and activity books for students from kindergarten through college. A free catalog is available upon request. Call 1 (800) 277-5300. **90**

NATIONAL WILDLIFE FEDERATION

11100 Wildlife Center Drive
Reston, VA 20190
1-800-822-9919
Fax: (703) 438-6468
E-Mail: wildlife@nwf.org
Web: www.nwf.org

The Nation's largest nonprofit conservation education organization. The mission of the National Wildlife Federation (NWF) 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 and sustainable future.

NWF publishes the magazines *Wild Animal Baby*(™), *Your Big Backyard*, and *Ranger Rick*(™) for children, and National Wildlife; produces a free monthly electronic educator newsletter including activities and tips for creating Schoolyard Habitats; produces curriculum units and facilitates teacher training workshops around the country on the following topics: Creating Schoolyard Habitats, Discovering Habitats and Access Nature; produces on-line resources, such as the *Ranger Rick Educators' Guide* for use with Ranger Rick magazine in the classroom. Visit www.nwf.org/education for more information and to receive an educator information packet. 91

NATURAL GAS SUPPLY ASSOCIATION (NGSA)

805 15th Street, N.W., Suite 510
Washington, DC 20005
(202) 326-9300
Fax: (202) 326-9330
E-Mail: mmarion@ngsa.org
Web: www.ngsa.org or www.naturalgas.org

A national, nonprofit trade association representing integrated and independent companies that produce and market domestic natural gas. Established in 1965, NGSA encourages expanded use of natural gas and regulatory and legislative actions that foster competitive markets.

All materials provided by NGSa are available at www.ngsa.org, which features information about public policy issues of concern to natural gas consumers, as well as to those employed in and interested in the industry. Issues covered include supply issues (exploration and production, challenges and barriers to producing natural gas), issues related to the Federal Energy Regulatory Commission (including the transmission and gathering of natural gas and the rates and regulations of interstate natural gas pipelines), distribution issues (the market pressure on natural gas prices and how it affects the retail price of natural gas), and demand issues (environmental regulations that prevent natural gas from being used to improve air quality and the use of natural gas to generate electricity). An annotated list of natural gas associations is included. NGSa also provides an educational primer about natural gas and the natural gas industry at www.naturalgas.org. 92

THE NATURAL GAS VEHICLE COALITION (NGVC)

400 North Capitol Street, N.W.
Washington, DC 20001
E-Mail: kbatte@NGVC.org
Web: www.NGVC.org

The Natural Gas Vehicle Coalition (NGVC) is a national organization dedicated to the development of a growing, sustainable, and profitable market for vehicles powered by natural gas and hydrogen.

The NGVC represents more than 180 engine, vehicle, and equipment manufacturers; fleet operators and service providers, natural gas companies, and environmental groups and government organizations interested in the promotion and use of natural gas and hydrogen as transportation fuels. The NGVC also hosts the only national conference dedicated to NGVs and hydrogen-powered vehicles.

Driving natural gas- or hydrogen-powered vehicles instead of traditional gasoline or diesel vehicles reduces air pollution and dependence on imported oil. Many schools are using natural gas school buses instead of old, dirty diesel buses to ensure their children ride to school safely. 93

NEBRASKA PUBLIC POWER DISTRICT

Energy Education Team
P.O. Box 499
Columbus, NE 68602-0499
(402) 586-5960
Fax: (402) 586-5166
E-Mail: webeditor@nppd.com
Web: www.nppd.com

A public utility servicing the electric needs of its customers, with a chartered territory including all or parts of 91 of Nebraska's 93 counties.

Provides educational services free of charge to schools and civic groups **in the utility's service area**. Services include electrical safety assemblies, "Louie the Lightning Bug" presentations, classroom programs and speakers, films/videos, tours of power plants and other facilities, and literature for students and teachers in all grades. Also provides information on Nebraska Public Power District's Environmental and Energy management/conservation issues. Materials are available upon request for groups and individuals in the utility's service area. **94**

NEW YORK STATE ENERGY RESEARCH AND DEVELOPMENT AUTHORITY (NYSERDA)

17 Columbia Circle
Albany, NY 12203-6399
(518) 862-1090 ext. 3303
1-800-875-5029 or 1-866-NYSERDA ext. 3303
Fax:(518) 862-1091
E-Mail: tad@nyserda.org
Web: www.GetEnergySmart.org or
www.nyserda.org/schools/schoolprograms.html

NYSERDA's holistic approach to energy-efficient schools is to invest in students, teachers, staff and school buildings. Our goal is to create energy-aware students, teachers and facility managers, while creating an efficient, healthy and safe learning environment.

The **Energy Smart Students Program**, in partnership with the National Energy Education Development (NEED) Project, provides K-12 curriculum materials. Materials are classroom-tested and aligned with New York State's Learning Standards. Some lessons are kit-based; a number of free classroom kits are available. Training workshops introduce teachers to the lesson plans. Teachers may register for workshops and download lessons from NYSERDA's Web site (www.GetEnergySmart.org).

The **School Power Naturally**SM Program provided working photovoltaic and data collection systems to 50 New York schools. Solar data collected from these 50 schools can be used in conjunction with **free**, interdisciplinary, middle and high school-level lessons. The data and lessons are both available for **all teachers** at www.SchoolPowerNaturally.org.

Energy Smart Schools provides objective technical and financial assistance to eligible K-12 schools in New York. NYSERDA assists New York's school administrators and facility managers to build and maintain school buildings that provide a safe, healthy and energy-efficient environment for learning. More information is available at www.nysed.org/schools/schools.html. 95

NEW YORK STATE GEOLOGICAL SURVEY/STATE MUSEUM

3140 Cultural Education Center

Albany, NY 12230

(518) 474-5816

Fax: (518) 486-2034

E-Mail: wkelly@mail.nysed.gov

Web: www.nysm.nysed.gov/research/geology/

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, Federal Government, educational institutions, and industry in the discovery, analysis, and dissemination of geologic information.

Provides free educational leaflets for both students and teachers for kindergarten through grade 12. Conducts workshops and

classes in geological sciences through the New York State Museum in Albany, New York. Produces geological maps and reports for both professionals and the general public. A catalog of publications is available free upon request. **96**

THE NOODLEHEAD NETWORK

107 Intervale Avenue
Burlington, VT 05401
1 (800) 639-5680
(802) 862-8675
Fax: (802) 864-7135
E-Mail: info@noodlehead.com
Web: www.noodlehead.com

An educational video producer and distributor that creates videos from a kid's viewpoint.

Produces and distributes educational videos for kids. Specializes in energy-related videotapes for utilities and the kindergarten through grade 12 school market. Kids play an integral role in the creation of each tape — from scriptwriting to acting to editing. Titles include: “Simple Things You Can Do To Save Energy,” “Simple Things You Can Do To Save Energy In Your School,” and “KnuckleHead’s Electrical Safety Series.” Videos are available for purchase in VHS format or with duplication and broadcast rights. Free catalogs and preview copies of the videos are available upon request. **97**

NORTH CAROLINA SOLAR CENTER

Box 7401
North Carolina State University
Raleigh, NC 27695-7401
(919) 515-7085
1 (800) 33NC-SUN (for North Carolina only)
Fax: (919) 515-5778
E-Mail: ncsun@ncsu.edu
Web: www.ncsc.ncsu.edu

The North Carolina Solar Center serves as the State's clearinghouse for solar energy programs, research information, education and technical assistance. The Center is sponsored

by the State Energy Office Department of Administration and the U.S. Department of Energy, with State Energy Program funds in cooperation with North Carolina State University. It is affiliated with the Industrial Extension Service and the College of Engineering at NCSU.

The Center seeks to advance the use of solar energy through information and education programs and services. The NCSU Solar House, built by the NCSU College of Engineering, is the education headquarters for the Center. The Solar House, which is open to the public, provides a reference library, video library, and educational resources for teachers and students. A computer displaying renewable energy CDs and other Solar Center resources is located in the Solar House library. Our Web site provides a listing of our programs, workshops, special events, fact sheets, books for sale, library bibliography, videos, and other Solar Center resources. **98**

NORTHEAST SUSTAINABLE ENERGY ASSOCIATION (NESEA)

50 Miles Street, Suite 3
Greenfield, MA 01301
(413) 774-6051
Fax: (413) 774-6053
E-Mail: edu@nesea.org
Web: www.nesea.org

The Nation's leading regional membership organization focused on promoting the understanding, development, and adoption of energy conservation and non-polluting, renewable energy technologies. NESEA works to bring clean electricity, green transportation, and healthy, efficient buildings into everyday use in order to improve the environment, protect human health, and nurture local economies. For more than a quarter century, NESEA has facilitated and enhanced a network of professionals, practitioners, and other citizens in the pursuit of responsible energy use with programs and activities focus on the northeastern United States (from Washington, DC to Maine).

Offers educational programs and resources that enable teachers and students to explore the science, technology, and

potential of low-polluting, environmentally friendly, and secure energy options such as renewably-produced electricity, clean transportation fuels, alternative transportation systems, and healthy, efficient buildings. Several free publications are available from their Web site or can be ordered for the cost of shipping and handling. These include three middle school lesson sets, *Getting Around Without Gasoline*, *Getting Around Clean & Green*, and *Travel Solutions to Global Warming*; a high school unit on alternative fuels, *Cars of Tomorrow* and the *American Community*; and several elementary-level resources, *Choose Your Future Adventure Game*, *Trip Tally: Discovering Environmental Solutions*, and *Totally Tree-Mendous Activities*.

NESEA also develops resources for other organizations. For example, a middle school science unit on transportation and global warming that can be downloaded from www.planetconnecticut.org and lessons that use mini solar-electric panels for hands-on inquiry of scientific principals that can be obtained from www.schoolpowernaturally.org.

In addition, NESEA runs educational programs for teachers and students as follows: 1) the Northeast Regional Junior Solar Sprint that invites middle school students to participate in a miniature solar car competition run by area coordinators from the mid-Atlantic, New England, and New York States; 2) the Tour de Sol: The Great American Green Transportation Festival, the clean-vehicle championship that invites high school students to build an electric or hybrid vehicle and enter the event and also invites students of all ages to take a field trip to the event and receive a guided tour of the vehicles; and 3) training workshops, conferences, and summer institutes for teachers. 99

NORTHEAST UTILITIES

Community Relations—Educational Programs

P.O. Box 270

Hartford, CT 06141-0270

1 (800) 286-5000, ext. 4043

Fax: (860) 721-4331

Web: www.nu.com

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

Conducts electrical school safety programs in all fourth/fifth grade classrooms **in areas served by Northeast Utilities system companies**. Booklets and posters on electric safety are available to customers and organizations in areas served by Northeast Utilities. Additional pamphlets on hypothermia, heat stress, home safety, energy conservation and weatherization are also available to customers and organizations in areas served by Northeast Utilities System.

Centers of the Northeast Utilities

SmartLiving Center
2231 Berlin Turnpike
Newington, CT 06111
1 (800) 228-7764
Web: www.smartliving-ct.com

Operating Companies of the Northeast Utilities System

The Connecticut Light and Power Company
CL&P
P.O. Box 270
Hartford, CT 06141-0270
Web: www.cl-p.com

Western Massachusetts Electric Company
WMECO Customer Service Center
P.O. Box 2010
West Springfield, MA 01090-2010
Web: www.wmeco.com

Public Service of New Hampshire
PSNH
P.O. Box 330
Manchester, NH 03105-0330
Web: www.psnh.com

NUCLEAR ENERGY INSTITUTE (NEI)

1776 I Street, N.W., Suite 400

Washington, DC 20006-3708

(202) 739-8000

Fax: (202) 785-4019

E-Mail: publications@nei.org

Web: www.nei.org

The nuclear energy industry's Washington-based policy organization.

Provides a 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 on nuclear energy are available for students and teachers. For more information, contact the NEI Publications Office. **101**

NUCLEAR INFORMATION AND RESOURCE SERVICE (NIRS)

1424 16th Street, N.W., Suite 404

Washington, DC 20036

(202) 328-0002

Fax: (202) 462-2183

E-Mail: nirsnet@nirs.org

Web: www.nirs.org

A nonprofit information and networking center for citizens and environmental organizations concerned about nuclear power, radioactive waste, radiation, and sustainable energy issues.

Furnishes fact sheets on nuclear waste, safety, general information, and alternative energy. Single copies are available. *The NIRS Energy Audit Manual: How to Audit Campus & City Buildings* is available for postage and handling; 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 the nuclear industry and events is available, as well as a catalog of related articles. **102**

OFFSHORE ENERGY CENTER

200 North Dairy Ashford, Suite 6220
Houston, TX 77079
(281) 679-8040
Fax: (281) 544-2441
E-Mail: oeeducation@aol.com
Web: www.oceanstaroec.com

Ocean Star

Offshore Drilling Rig & Museum
Pier 19
Galveston, TX
(409) 766-STAR
Fax: (409) 766-1242
E-Mail: osmuseum@aol.com

A nonprofit corporation, the Offshore Energy Center is dedicated to expanding the awareness of the vast energy resources beneath the world's oceans and to chronicling the unique heritage and technological accomplishments of the industry that discovers, produces, and delivers these resources in a safe and environmentally responsible way.

The Offshore Energy Center sponsors the Ocean Star, an offshore drilling rig and museum in Galveston, Texas. The museum is a retired jack-up rig that has been refurbished, enabling visitors to enjoy learning about operating offshore rigs and specialized oil field equipment in a comfortable atmosphere, while experiencing the ambiance and accessibility of a quality museum. Offers group package discounts and is available for rentals. The museum also offers "Family Days" in which a specific topic related to the oil and gas industry is explored. Held the second Saturday of every month, admission is free for children with an accompanying adult. Museum is open daily 10 a.m. to 5 p.m. Closed Christmas and Thanksgiving.

Sponsorship for field trips to the museum, overnight programs, and guest speakers are available. The "Knowledge Box," a mobile exhibit showcasing the many aspects of the oil and gas industry, is loaned free to surrounding school districts. The "Knowledge Box" contains teacher resources, hands-on activities, and interactive lessons. The Offshore Energy Center

also provides a variety of teacher training workshops assisting with energy, science, and environmental curriculums. **103**

OHIO ENERGY PROJECT (OEP)

670 Enterprise Drive, Suite A

Lewis Center, OH 43035

(614) 785-1717

Fax: (614) 785-1731

E-Mail: oepe@ohioenergy.org

Web: www.ohioenergy.org

A nonprofit energy education organization whose mission is to promote an energy-educated society and to facilitate leadership through effective partnerships with schools, businesses, government, and communities. OEP provides the complete energy education picture through hands-on, minds-on activities for teachers and students.

With a philosophy of “Kids Teaching Kids,” OEP facilitates workshops for elementary and middle school students led by high school student teams. These workshops focus on current, interdisciplinary, unbiased energy information.

Other workshop opportunities include Ohio’s EnergySmart Schools for those interested in providing a sustainable, energy efficient learning environment; customized energy education programs; and OEP/Center of Science and Industry education programs.

The largest affiliate of the National Energy Education Development (NEED) Project, OEP offers a free partnership for Ohio educators. This partnership provides energy education materials, access to most workshops, and periodic updates on OEP information. **104**

**OHIO OIL & GAS ENERGY EDUCATION PROGRAM
(OOGEEP)**

1718 Columbus Road, S.W.
P.O. Box 187
Granville, OH 43023-0535
(740) 587-0444
Fax: (740) 587-0446
E-Mail: rreda@ooga.org
Web: www.oogeep.org

The Ohio Oil and Gas Energy Education Program (OOGEEP) is a nonprofit educational program funded by Ohio's oil and gas producers and royalty owners through a voluntary assessment on all crude oil and natural gas produced in Ohio.

OOGEEP offers the following materials: Educational posters — “Productions of Oil and Gas,” an Ohio Oil and Gas Activity Map and Information, and a safety poster; educational packets, including hands-on activities; puzzles; free teacher workshop materials; Science Fair information; and videos. For detailed information on these materials, please refer to www.oogeep.org/EdMaterials/default.htm. **105**

OKLAHOMA ENERGY RESOURCES BOARD

3555 N.W. 58th, Suite 430
Oklahoma City, OK 73112
1 (800) 664-1301
(405) 942-5323
Fax: (405) 942-3435
Web: www.oerb.com

An oil and natural gas industry-funded State agency dedicated to energy education and restoring environmentally damaged, orphaned and abandoned oil and gas production and exploration sites.

Provides to Oklahoma educators, free of charge, the following: teachers' guides with classroom activities for *Fossils to Fuel* and *Petro Active*, two science-based energy curriculum units for elementary and middle schools. Also sponsors 1-day training in the use of the curricula and reimburses school districts for substitute pay during workshops. Offers, free of charge, a statewide coordinated program entitled "Petro Pros" (*Petroleum Professionals in the Classroom*). This interactive hands-on program is presented by oil and natural gas industry volunteers who bring energy facts to the classroom in 45-minute presentations. Also free of charge is an oil field safety video, "What's the Risk?" Geared towards middle school students, the video explains the dangers of playing around oil field equipment. It features extreme stunts by BMX and skateboard riders. The Energy Behind Finding Energy, a two-part video that explains the various stages of petroleum production, is free to educators. Produced in conjunction with Marathon Oil, the video includes information on exploration, drilling, extraction and refining. Copies are available in VHS and DVD format. **106**

OMAHA PUBLIC POWER DISTRICT

Consumer Relations Department
444 South 16th Street, 3E/EP1
Omaha, NE 68102-2247
(402) 636-3751
Fax: (402) 636-3922
E-Mail: sjefferson@oppd.com
Web: www.oppd.com

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 are available upon request. **107**

PACIFIC GAS & ELECTRIC COMPANY (PG&E)

Customer Energy Management Department
245 Market Street, Room 645B, Mail Code N6G
P.O. Box 770000
San Francisco, CA 94177
(415) 972-5416
Fax: (415) 973-4961
E-Mail: PMW2@pge.com
Web: www.pge.com

An investor-owned utility serving more than 4 million residential customers.

Provides the Energenius Educational Series, several complete curriculum programs focusing on energy efficiency and gas and electric safety education for kindergarten through grade 8. Curriculum materials are provided at no cost to schools **within the service territory**. Energenius Educational Series comes complete with teacher curriculum guide and student activities for each student. The core of the series consists of multi-lesson classroom programs designed to engage students in active, age-appropriate learning and to relate to pace-setting curriculum standards such as those of the California Content Standards. Games and activities can be used inside or outside the classroom and involve both young people and their families. Order materials by going to PG&E's Web site and click on the icon for teachers. **108**

PEPCO

701 Ninth Street, N.W.
Washington, DC 20068
(202) 833-7500
Web: www.pepco.com

Pepco is a regulated electric utility that provides transmission and distribution services and is a wholly owned subsidiary of Pepco Holdings, Inc. Pepco delivers electricity at regulated rates to more than 700,000 customers in Washington, DC, and major portions of Prince George's and Montgomery counties in suburban Maryland.

Provides speakers for classroom presentations on the importance of electricity, electricity as an energy resource, electric safety, how electricity is delivered to homes, transmission and distribution lines, and energy management to all schools in Pepco's service area.

Pepco's Web site — www.pepco.com — provides a wealth of information and customer services online. A popular feature is *Megawatt U*, a fun site that teaches children about electricity and electrical safety. There's even a section with safety tips for adults. **109**

POLYSTYRENE PACKAGING COUNCIL (PSPC)

1300 Wilson Boulevard, 8th Floor
Arlington, VA 22209
(703) 741-5649
Fax: (703) 741-5651
Web: www.polystyrene.org

The Polystyrene Packaging Council (PSPC) is a business unit of the American Plastics Council. PSPC represents the major resin suppliers of polystyrene and converters and fabricator companies of polystyrene foodservice packaging products. PSPC's mission is to serve as a forum for issues of importance to the polystyrene industry (i.e., Foodservice Health & Safety, Foodservice Advocacy/Communications, and Education/Consumer Affairs), and to serve as the polystyrene industry spokesperson on issues of importance to selected audiences and the general public.

Offers general information brochures on polystyrene and solid waste management. Available on-line at www.polystyrene.org.

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PPL CORPORATION

Education Relations/Community Affairs
Two North Ninth Street
Allentown, PA 18101-1179
(610) 774-6914
Fax: (610) 774-5930
Web: www.pplweb.com

PPL Corporation is a worldwide energy corporation. PPL generates electricity at power plants in the northeastern and western United States, sells electricity in key U.S. markets, and delivers energy in Pennsylvania, the United Kingdom, and Latin America.

Provides energy and environmental education materials and programs to educators and students. This includes kindergarten through grade 12 curriculum, employees who volunteer as tutors, Nuclear Energy Seminar for Teachers (NEST) (worth three graduate credits), Energy for Living Workshops, Teaching Environmental Awareness (TEA) workshops, School-to-Career programs, electrical safety programs, a newsletter (*Partners*) for educators, and Let's Get Real real-life problem-solving competition for middle and high school teams. **111**

PROCTER & GAMBLE

Educational Services
P.O. Box 599
Cincinnati, OH 45201-0599
(513) 983-2139
Fax: (513) 983-2173
E-Mail: true.tb@pg.com
Web: www.pg.com

Public Affairs Division of a consumer products company.

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. **112**

RAILROAD COMMISSION OF TEXAS

P.O. Box 12967

Austin, TX 78711-2967

(512) 463-7110 (“Alternative Energy” materials)

Fax: (512) 463-7292 (“Alternative Energy” materials)

E-Mail: juline.gurasich@rrc.state.tx.us

Web: www.rrc.state.tx.us

A State energy agency that regulates the oil and gas, alternative fuels, and surface mining industries in Texas. The Commission serves Texans by: its stewardship of natural resources and the environment, its concern for personal and community safety, and its support of enhanced development and economic vitality.

Provides educational materials free to Texas teachers (kindergarten through grade 10). Materials for primary grades are available on the Commission’s Web site (click on “Kids’ World”). These materials include interactive activities on energy and safety at home, at school, and outdoors. The Commission also provides free educational workshops and a curriculum supplement called “Alternative Energy” for 6th through 10th grade science teachers in Texas. “Alternative Energy” is the second edition of the Commission’s successful 1996 “Alternative Transportation Fuels” curriculum supplement. All materials are correlated with Texas Assessment of Knowledge and Skills standards. Interactive CDs are available in workshops only. All 25 lessons, excluding tests and answer keys, are available on the Commission’s Web site (click on “Energy Curriculum”). Lessons are organized in units called “Energy” (six lessons), “Fuels” (nine lessons), “Technology” (four lessons), and “Environment” (six lessons). A teacher’s guide, equipment list, answer keys, glossary, bibliography and a list of additional Web-based and other resources are provided. “Alternative Energy” is funded by a grant from Texas State Energy Conservation Office.

RENEWABLE ENERGY POLICY PROJECT (REPP)

1612 K Street, N.W., Suite 202

Washington, DC 20006

(202) 293-2898

Fax: (202) 293-5857

E-Mail: info2@repp.org

Web: www.repp.org

REPP is a 501(c)3 nonprofit organization dedicated to accelerating the use of renewable energy by providing credible information, insightful policy analysis, and innovative strategies amid changing energy markets and mounting environmental needs by researching, publishing, and disseminating information, creating policy tools, and hosting highly active, on-line, renewable energy discussion groups.

REPP supports the advancement of renewable energy technology through policy research. REPP seeks to define growth strategies for renewables that respond to competitive energy markets and environmental needs. Since its inception in 1995, REPP has investigated the relationship among policy, markets and public demand in accelerating the deployment of renewable energy, which include biomass, hydropower, geothermal, photovoltaic, solar thermal, wind and renewable hydrogen. The organization offers a platform from which experts in the field can examine issues of medium- to long-term importance to policymakers, green energy entrepreneurs, and environmental advocates. **114**

RENEWABLE FUELS ASSOCIATION

One Massachusetts Avenue, N.W., Suite 820

Washington, DC 20001

(202) 289-3835

Fax: (202) 289-7519

E-Mail: info@ethanolrfa.org

Web: www.ethanolRFA.org

A national nonprofit association promoting domestically produced renewable ethanol as an alternative to imported energy sources.

Provides general information and an Industry Annual on ethanol, a clean-burning, renewable transportation fuel produced from agricultural feedstocks and wastes. Additional information is available free of charge by visiting the above Web site or calling the above number. **115**

SAN DIEGO MIRAMAR COLLEGE

Advanced Transportation Technology Center

10440 Black Mountain Road

San Diego, CA 92126

(619) 388-7309

Fax: (619) 388-7905

E-Mail: gnewhous@sdccd.net

Web: www.transportationtech.com

The Advanced Transportation Technology (ATT) Center at Miramar College was initiated in 1996. It is one of ten centers throughout California dedicated to transforming the workforce in the rapidly developing, technology-driven transportation industry, while improving the environment and stimulating the economy. Such a transformation includes education and programs in transportation-related areas that are developed and provided to elementary, middle, and high school students.

At San Diego Miramar College, the ATT Center works to integrate new technologies and information on new fuels into the curriculum of the college's diesel, aviation, and automotive programs, as well as working to integrate those programs with the academic offerings of the school. In turn, these programs are adapted to provide education to younger students in a variety of outreach activities and information. An example of this is our booklet *Introduction to Alternative Fuels and Alternative Fueled Vehicles*. This booklet is free upon request or can be downloaded from our Web site. **116**

SCIENCE SCREEN REPORT (SSR)

1000 Clint Moore Road
Boca Raton, FL 33487-2806
1 (800) ASK-INFO
Fax: 1 (888) FAX-3737
E-Mail: 2scott@ssrvideo.com
Web: www.ssrvideo.com

The award-winning videotape series made available to schools free of charge through corporate support.

Science Screen Report is an ongoing series of secondary and elementary videos that focus on the most recent developments in technology, chemistry, engineering, energy, medicine, and the environment. Produced since 1970, SSR is a proud participant in the National Science Foundation's Presidential Awards for Excellence in Mathematics and Science Teaching. SSR is designed to stimulate student interest in the challenges, opportunities, and rewards of pursuing science-related careers. The programs are used nationwide by more than 7,000 school districts. The donated materials become the permanent property of the school system. DVD will be available in 2004. Visit www.ssrvideo.com to request a corporate sponsor. **117**

SCIENCE SERVICE

1719 N Street, N.W.
Washington, DC 20036
(202) 785-2255
Fax: (202) 785-1243
E-Mail: sciedu@sciserv.org
Web: www.sciserv.org

The mission of Science Service is to advance the understanding and appreciation of science among people of all ages through publications and educational programs. In addition to our educational programs, Science Service also publishes the weekly news magazine, Science News.

Science Service administers three youth programs. The Intel 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 (per fair) are chosen to participate in the ISEF. Participants are eligible for scholarships, scientific field trips, summer research internships, and equipment.

The *Intel Science Talent Search* is America's oldest and most highly regarded science contest for high school seniors. To be eligible students must submit an individually researched project to enter this science competition. From the 300 semifinalists, 40 finalists will be chosen to attend the Science Talent Institute in Washington, DC, where students exhibit their research at the National Academy of Sciences and compete for the top prize of a \$100,000 four-year scholarship. Deadline for the 2004-2005 program is November 17, 2004.

The Discovery Channel Young Scientist Challenge is a national science competition for 5th through 8th graders. Students participate in their regional and/or State science fair. Four hundred semifinalists are chosen and announced in August and the Finalists are announced in September. In October the finalists travel to Washington, DC, for an all-expense-paid trip to compete for over \$40,000 in scholarships and trips. For more information, please visit our Web site at www.sciserv.org. **118**

SHELL OIL COMPANY

Corporate Communications

P.O. Box 2463

Houston, TX 77252-2463

(713) 241-6161

Fax: (713) 241-6988

Web: www.shellus.com or www.shell.com

Shell Oil Company, its subsidiaries, and the companies in which Shell Oil holds a substantial interest have extensive operations in the United States. The Shell companies operating in the United States include Shell Chemicals, Shell Exploration & Production, Shell Oil Products US, Shell Gas & Power, and several joint ventures and alliances. Shell Oil Company is an affiliate of the Royal Dutch/Shell Group of Companies.

Beyond its service stations and exploration and production activities, Shell delivers a much wider range of energy solutions and petrochemicals to customers. Shell companies transport and trade oil and gas, market natural gas, produce and sell fuel for ships and planes, generate electricity and provide energy efficiency advice. Shell also produces and sells petrochemical building blocks to industrial customers that turn into plastics, coatings, and detergents used in fiber and textiles, insulation, medical equipment, and components for lighter, efficient vehicles.

Shell is investing in new technologies through its Wind, Solar and Hydrogen businesses to help find lower-carbon energy sources that will help solve our world's energy challenges in the future. Through its Internet sites at www.shell.com and www.shellus.com, Shell offers a wealth of information on sustainable development and how the company endeavors to make efficient use of natural resources while developing new technologies that help address the needs of future generations.

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SMORK'S AWESOME INTERNET SITES FOR KIDS

197 Spadina Avenue, Second Floor

Toronto, Ontario, Canada

M5T 2C8

1 (866) 628-9539, Ext. 225

(416) 422-1579, Ext. 225

Fax: (416) 593-5888

E-Mail: sandra@smork.com

Web: www.smork.com

A wonderful new book - an Internet guide for 5- to 13-year-olds, written by teachers and moms.

Provides children with safe and appealing Internet resources for homework, entertainment, environment, energy conservation, volunteering, community building, and more. Smork's Safe URLS helps children avoid the risk of arriving at sites that are not appropriate for them. Important tips on accessing the Internet safely and effectively are distributed throughout the book. Fun illustrations, fascinating facts, engaging questions and activities make this a book that children enjoy referring to often.

Recommended by teachers and E-Learning Coordinators across the United States and Canada, this publication is available online at www.smork.com and is also a popular fundraiser in elementary schools. Contact us for details about our profitable fundraising program. **120**

SOCIETY OF AUTOMOTIVE ENGINEERS (SAE)

SAE Foundation
400 Commonwealth Drive
Warrendale, PA 15096-0001
1 (800) 457-2946
Fax: (724) 776-0890
E-Mail: awim@sae.org
Web: www.sae.org/students

The SAE Foundation is dedicated to supporting the development of educational programs to improve mathematics, science, and engineering education, from the elementary grades through graduate school.

Provides “A World in Motion: The Design Experience (AWIM),” a series of four specially adapted engineering design challenges for grades 4 through 10. AWIM is a multidisciplinary curriculum, which includes math, science, social studies, and technology education. The program is an integrated curriculum built upon a real-life scenario. The goals of AWIM are to improve the teaching and learning of science, mathematics, and technology education through the integration of the disciplines. AWIM is a program based on an engineering design experience, suitable for elementary and middle school students and teachers, to strengthen the collaboration between students in design teams and teachers in teaching teams, and to mobilize members of the community as classroom volunteers in support of a curriculum experience. Please e-mail or write to SAE to obtain information on how to receive a free copy of “A World in Motion” for your local school. **121**

THE SOCIETY OF THE PLASTICS INDUSTRY, INC. (SPI)

1801 K Street, N.W.

Washington, DC 20006

(202) 974-5200

Web: <http://plasticsindustry.org>

Founded in 1937, The Society of the Plastics Industry, Inc., is the trade association representing one of the largest manufacturing industries in the United States. SPI's members represent the entire plastics industry supply chain, including processors, machinery, and equipment manufacturers, and raw material suppliers. The U.S. plastics industry employs 1.4 million workers and provides nearly \$310 billion in annual shipments. For more information, visit SPI on the Web at www.plasticsindustry.org.

SPI provides educational resources for elementary and middle-school educators and information for consumers to increase public understanding of the facts related to plastic bags. The “Don’t Let a Good Thing Go to Waste” is an environmental education program for students in grades 2 through 5. “An Ounce of Prevention” is a middle school curriculum. Its poster-lesson plan on the Life of a Hamburger comprises a complete resource for teaching the elements of waste generation and prevention. The full nine-activity curriculum, developed with the National Science Teachers Association and Dow Chemical Company, helps students see how many resources are consumed and how much waste is generated in daily-life activities, such as eating a hamburger and choosing plastic or paper at the supermarket checkout counter. These activities help them realize the value of prevention when it comes to waste. **122**

SOLAR ELECTRIC POWER ASSOCIATION (SEPA)

1616 H Street, NW, Suite 800
Washington, DC 20006
(202) 857-0898
Fax: (202) 857-0891
E-Mail: info@solarelectricpower.org
Web: www.SolarElectricPower.org

A nonprofit trade association of energy service providers and the photovoltaic industry working together to create and encourage commercial use of solar electric power.

SEPA helps to establish standards for solar electricity systems and their connection to the utility grid, hosts cross-industry workshops, and manages educational and outreach campaigns.

Publications include: *Schools Going Solar, Volumes I & II*: a guide to schools enjoying the power of solar energy; the *SEPA Record*, a solar energy newspaper about current projects and events in the industry; community PV (CD-ROM) “How you can use solar power, solar programs in North America,” describes successful solar energy projects and includes a “solar town meeting” (available for a nominal fee); “Solar Power-Making the Dream Real” is a 10-minute videocassette tape (available for a nominal fee); 4.5 Megawatts & Counting: Technology and Business Perspectives on TEAM-UP; and “Large and Small Solar Systems Cost Reports,” detailing the costs of residential and large solar electricity projects installed as part of a Department of Energy and SEPA collaboration (available for a nominal fee). **123**

SOLAR ENERGY INDUSTRIES ASSOCIATION

1616 H Street, N.W., 8th Floor
Washington, DC 20006
(202) 628-7745
Fax: (202) 628-7779
E-Mail: info@seia.org
Web: www.seia.org

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

Up-to-date information on solar thermal and electric costs, market size, technologies, and performance available via phone or e-mail. **124**

SOLAR NOW, INC.

The Sunroom
100 Sohier Road
Beverly, MA 01915
(978) 927-9SUN
Fax: (978) 927-9191
E-Mail: solarnow@comcast.net
Web: www.solarnow.org

A national nonprofit organization providing education about all forms of renewable energy to teachers, students, environmentalists, and sustainability enthusiasts.

Provides programs for students and educators seeking hands-on renewable energy education. Based at one of the Nation's largest photovoltaic sites, our field study center also hosts a 10kW windmill and an interactive classroom. Field trips may be arranged by calling the above number. The following are also offered: comprehensive teacher education workshops, summer internships for college students, a library of renewable energy activities, and student conferences. A desktop publication, *A Curriculum Framework for Education in Environmental and Renewable Energy Science: Grades Pre-Kindergarten through 1st Year College*, is available for a small fee. **125**

STEEL RECYCLING INSTITUTE

680 Andersen Drive
Pittsburgh, PA 15220-2700
1 (800) 876-7274
Fax: (412) 922-3213
E-Mail: sri@recycle-steel.org
Web: www.recycle-steel.org

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

Provides materials for primary, middle, and secondary school educators. Materials include: *Nature's for ME*, a preschool teacher's guide filled with nature-related interactive exercises; "YES I CAN!," a video and teacher's guide for grades 1 through 3; and "Earth Cycles," a cross-age teaching program for grades 8 through 12 and grades 3 through 5. The guide outlines three hands-on activities: *Roscoe's Totally Cycled World*, a middle school CD-ROM with interactive missions in science, language arts, math, and social studies; "Cycles for Science," high school curriculum supplements for biology, chemistry, physics, and earth/life science; and a community volunteer activities guide to support the program. Information and prices are available through order forms. Additional materials, such as activity sheets and a coloring poster, are available. Please indicate grade level(s) for which materials or order forms are needed. **126**

THE WILDS

14000 International Road
Cumberland, OH 43732
(740) 638-2116
Fax: (740) 638-2287
E-Mail: aparker@thewilds.org
Web: www.thewilds.org

The Wilds is a nonprofit organization working to advance conservation through education and science. Here students can explore the natural world and develop solutions for the wildlife populations through on-site experiences.

With a remarkable 14-square miles of grassland, forest, lake and wetland habitats to explore, *The Wilds* can offer one of the most comprehensive conservation education programs in the region. The previously impacted landscape also presents an outdoor laboratory for ecology and ecosystem restoration like no other. Here students see the impacts of our lifestyles on the environment and yet can be instilled with a sense of hope for the future as they learn about the ways we can improve degraded habitats and get involved personally with wildlife and our shared

environment. The wildlife research facilities, veterinary clinic, unique animal handling procedures, worldwide wildlife focus, and 'out-in-it' residential camps of *The Wilds* gives each student a holistic view of their responsibility for stewardship. *The Wilds* also prepares students to understand new technologies in the natural resource field and equips them to make wise decisions in the future use of our planet and its living resources. Newest among *Wilds*' Education opportunities is the Hands on the Land restoration ecology program. In this program students will spend 3 full days on *The Wilds* making ecology a practical science and being encouraged to develop their own ecological ethic. 127

UNION OF CONCERNED SCIENTISTS (UCS)

Two Brattle Square
Cambridge, MA 02238-9105
(617) 547-5552
Fax: (617) 864-9405
E-Mail: ucs@ucsusa.org
Web: www.ucsusa.org

The Union of Concerned Scientists is a nonprofit partnership of scientists and citizens combining rigorous scientific analysis, innovative policy development, and effective citizen advocacy to achieve practical environmental solutions.

Established in 1969, we seek to ensure that all people have clean air, energy, and transportation, as well as food that is produced in a safe and sustainable manner. We strive for a future that is free from the threats of global warming and nuclear war and a planet that supports a rich diversity of life. Sound science guides our efforts to secure changes in government policy, corporate practices, and consumer choices that will protect and improve the health of our environment globally, nationally, and in communities throughout the United States. In short, UCS seeks a great change in humanity's stewardship of the earth. Materials for educators can be found at www.ucsusa.org/environment/educators.html. Reports and fact sheets can be downloaded from our Web site. 128

UNIVERSITY OF ILLINOIS AT URBANA — CHAMPAIGN

School of Architecture — Building Research Council

1 East St. Mary's Road

Champaign, IL 61820

1 (800) 336-0616 or (217) 333-7551

Fax: (217) 244-2204

E-Mail: jshiffer@uiuc.eduWeb: www.arch.uiuc.edu/programs/buildingresearchcouncil*A nonprofit information clearinghouse and research center.*

Publishes 8-, 12-, and 16-page booklets on how to make homes comfortable, healthy, and energy efficient that are appropriate for 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. 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. A limited number of publications are available for viewing at the Web site in PDF format. Landscaping, passive solar house plans, noise control and a multitude of additional topics are also covered in our publications. **129**

**U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
(NRCS)**

Conservation Communications Staff

P.O. Box 2890

Washington, DC 20013

(202) 720-3210

Fax: (202) 720-1564

Web: www.nrcs.usda.gov

Since 1935, NRCS, formerly the Soil Conservation Service, has been the Nation's leading Federal conservation agency working with private landowners to help them protect their natural resources.

Through its national system of state and county-level offices, NRCS emphasizes voluntary science-based conservation technical assistance, partnerships, incentive-based programs, and cooperative problem-solving at the community level. Natural resource conservation programs are designed to reduce pollution, improve soil and water quality, increase wildlife habitat, and provide many other environmental benefits in an energy-efficient manner.

NRCS assists and maintains working relationships with numerous educational, youth, civic, environmental, and conservation organizations on resource conservation issues and materials development. Limited quantities of free materials about natural resource conservation topics are available from NRCS. Many of these materials have been designed for the educational audience and are adaptable to fit educators' curricular needs. They include the Water Cycle: Nature's Recycling System poster, *Conquest of the Land Through 7,000 Years*, *Conservation Buffers Work—Economically and Environmentally*, plus the popular *Backyard Conservation* booklet and related materials.

Soil surveys, normally prepared on a countywide basis, are available from the local NRCS office. Soil surveys provide detailed descriptions of local soils, their location, genesis, characteristics, and suggested best uses. Snow survey and water supply forecasts provide western states and Alaska with vital information and forecasts of seasonal variable water

supplies. Plant Material Centers offer information on the usefulness of plant species for biomass production, carbon sequestration, erosion reduction, wetland restoration, water quality improvement, streambank and riparian area protection, coastal dune stabilization, and to meet other special conservation treatment needs.

To contact your local NRCS office, look in the local telephone directory under U.S. Government, U.S. Department of Agriculture, Natural Resources Conservation Service, or online at <http://offices.usda.gov>. To order publications, go to www.nrcs.usda.gov and look for the “Publications” in the Quick access links on the left or telephone 1 (888) LANDCARE (toll-free). Visit the NRCS Web site, www.nrcs.usda.gov, to review materials and resources available through the agency’s various institutes and centers. **130**

**U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION
(NOAA)**

NOAA Education Outreach Unit
1305 East West Highway, #1W514
Silver Spring, MD 20910
(301) 713-1208
Web: www.education.noaa.gov

A Federal agency with programs that advance the Nation’s science education goals by expanding and enhancing the scientific competence of all students, teachers, and the general public.

Provides information free of charge to students, teachers, librarians, and the general public about the earth’s oceans and atmosphere, including the topics of endangered marine mammals, severe and hazardous weather, El Niño/La Niña, NOAA weather radio, coastal management, weather satellites, and global warming. Information about NOAA’s educational programs, like the Teacher at Sea, is also available from this office. Additional information can be found at www.education.noaa.gov. **131**

U.S. DEPARTMENT OF ENERGY
ARGONNE NATIONAL LABORATORY

Division of Educational Programs
9700 South Cass Avenue
Argonne, IL 60439
(630) 252-4114
Fax: (630) 252-3195
Web: www.dep.anl.gov

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

Provides three continuing programs for kindergarten through grade 12 teachers as follows: (1) The Argonne Community of Teachers, a local organization of teachers who have participated in Argonne programs in the past and who continue to work with the Laboratory to improve science education for schools in the Chicago area; (2) The Educational Networking Consortium, a training and Internet access organization that attempts to train and connect Chicago area teachers to the Internet by using a collection of dial-in sites in collaboration with the Illinois State Board of Education; and (3) NEWTON, The Science Teachers Bulletin Board, which offers a place where teachers and students can discuss education and ask questions of practicing scientists. The bulletin board can be reached at www.newton.dep.anl.gov. Web site for all three programs: www.dep.anl.gov. See section "Science, Technology and Education — Precollege Programs."

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION (BPA)

Community Education Program-DR-7

P.O. Box 3621

Portland, OR 97208-3621

(503) 230-5341

Fax: (503) 230-4576

E-Mail: pnevans@bpa.gov

Web: www.bpa.gov

Bonneville Power Administration 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 approximately 3,100 persons in Idaho, Montana, Oregon, and Washington. The majority of the agency's work is in the Portland-Vancouver metropolitan area headquarters and control center. BPA works with several business, school, and government agency partnerships. Many employees volunteer each year for various programs.

Participates in a variety of education programs for K-12 **in the BPA four-State service area**. Programs include science competitions, mentoring and tutoring, environmental education, summer science camps, worksite visits, and others. Educational materials designed for K through 12th grade on the topics of electricity, energy efficiency/conservation, and fish and wildlife are loaned or given free of charge to teachers in BPA's service territory (Oregon, Washington, Idaho, and Western Montana). Educational resources include curricula, hands-on activities, storybooks, posters, and videotapes. The following link is to the BPA teachers' resources: www.bpa.gov/Corporate/KR/ed/page6.htm. **133**

**U.S. DEPARTMENT OF ENERGY
CARBON DIOXIDE INFORMATION ANALYSIS CENTER
(CDIAC)**

MS-6335, Building 1509
Oak Ridge National Laboratory
P.O. Box 2008
Oak Ridge, TN 37831-6335
(865) 574-0390
Fax: (865) 574-2232
E-Mail: cdiac@ornl.gov
Web: <http://cdiac.ornl.gov/>

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

Provides data and information products that would be of value to users concerned with greenhouse effect and global climate change. Information materials suitable for middle and high school students include, but are not limited to, the newsletter, *CDIAC Communications* (<http://cdiac.ornl.gov/newsletr/ccindex.html>), which describes CDIAC, DOE, and other initiatives in global change research; *Trends Online: A Compendium of Data on Global Change* (<http://cdiac.ornl.gov/trends/trends.htm>), a quick source of frequently requested data. CDIAC also distributes a computer model on global energy - CO₂ emissions, *The IEA/ORAU Long-Term Global Energy CO₂ Model* that is suitable for high school and college students. This computer model package utilizes variables to interactively produce CO₂ and CH₄ emission scenarios for 1975 through 2100. A complete listing of CDIAC data and informational products is available from the Web site or in CDIAC's Catalog of Databases and Reports (http://cdiac.ornl.gov/pns/pns_main.html). **134**

**U.S. DEPARTMENT OF ENERGY
ENERGY EFFICIENCY AND RENEWABLE ENERGY
INFORMATION CENTER (EERE IC)**

P.O. Box 43165
Olympia, WA 98504-3165
(877) 337-3463
Fax: (360) 236-2023
Web: www.eere.energy.gov

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

The EERE Information Center provides general information on DOE's Energy Efficiency and Renewable Energy Program. Information Center Staff direct the public to resources and publications available on the Web site at www.eere.energy.gov, which has easily accessible energy-related consumer information and an ordering catalog for publication requests. **135**

**U.S. DEPARTMENT OF ENERGY
KIDSZONE**

1000 Independence Avenue, S.W.
Washington, DC 20585
1 (800) DIAL-DOE
Fax: (202) 586-4403
E-Mail: KidsZone@eia.doe.gov
Web: www.energy.gov/engine/content.do?BT_CODE=KIDS

The Department of Energy Web site (www.energy.gov) is a portal to the agency's substantial information holdings.

One of the popular features of DOE's Web site is the KidsZone, a destination for young people interested in energy, science, and technology. The KidsZone offers an array of kid-friendly features like games, quizzes, contests, and a history of the greatest events and people in energy, plus age-graded instructional materials for energy and science teachers. The DOE Web site also provides general information organized by energy topic and by DOE offices and facilities, plus an expanded business resource section that lists employment, grant and contract opportunities, and other helpful information; a section for teachers and researchers

to help them locate information about workforce development and other items of interest to the academic community; and a section to assist consumers in saving money, energy, time, and the environment. **136**

U.S. DEPARTMENT OF ENERGY
LOS ALAMOS NATIONAL LABORATORY

Science Education Program Office

P.O. Box 1663, MS M709

Los Alamos, NM 87545

(505) 667-8680

Fax: (505) 665-6871

E-Mail: angela_m@lanl.gov

Web: <http://education.lanl.gov/EPO/>

A DOE-funded national laboratory.

Los Alamos National Laboratory offers elementary- through university-level educational programs for students, teachers, and the public. They include teacher programs, student programs, internships, and postdoctoral appointments. Topics include: educational technology, curriculum and resources, public understanding of science, and diversity programs. Some programs are national in scope, while others are regional or local. Each of the programs is described on our Web site listed above.

Available products include: (1) *Science at Home*, a book of science experimental activities for elementary and middle school students and parents to complete together using commonly available materials. (The Billerica, MA 01862, phone (508) 667-8000, fax (508) 667-5706, toll free (800) 225-0248, the book was published in 1997 and its ISBN is 0-7609-0236-4);

(2) *Hydrogen and the Materials of a Sustainable Energy Future*, a notebook of experiments and demonstrations for teachers that were presented at the National Educator's Workshop: UPDATE 96; (3) *Model Nets*, a National Study of Computer Networking in K-12 Education and *Model Nets Guide*, a guide to implementing networking technology in K-12 education; (4) the *Seventh Generation, Environment, Safety, and Health at Los Alamos National Laboratory: A Report to Our Communities*; and (5) *Fuel Cells — Green Power*. **137**

U.S. DEPARTMENT OF ENERGY
NATIONAL ENERGY INFORMATION CENTER (NEIC)

Energy Information Administration
1000 Independence Avenue, S.W., EI-30, Room 1E-238
Washington, DC 20585
(202) 586-8800
Fax: (202) 586-0727
E-Mail: infoctr@eia.doe.gov
Web: www.eia.doe.gov

NEIC is the information dissemination service of DOE's Energy Information Administration, which is responsible for developing energy data, analyses, and forecasts that help enhance public understanding of energy issues.

Available free of charge is the *Energy INFOcard*, a quick reference providing the most recent annual domestic and international energy data; *Energy Education Resources: Kindergarten through 12th Grade*; and a series of primers on topical energy subjects: propane prices, residential heating oil prices, residential natural gas prices, gasoline prices, greenhouse gases, global climate change, and the restructuring of the electric power industry. All products are available on EIA's World Wide Web site, which also features the EIA Kid's Page (www.eia.doe.gov/kids/); hundreds of links to other energy-related sites; an e-mail subscription and notification service for EIA press releases and a series of energy watches, synopses, summaries, and briefs; an energy quiz; an energy calendar listing schedules for future EIA publications and other energy events; and EIA publications and databases covering the various energy sources. **138**

U.S. DEPARTMENT OF ENERGY
NATIONAL ENERGY TECHNOLOGY LABORATORY (NETL)

P.O. Box 10940

Pittsburgh, PA 15236-0940

(412) 386-5034

Fax: (412) 386-4810

E-Mail: rjones@netl.doe.gov or mnowak@netl.doe.gov

Web: www.netl.doe.gov

P.O. Box 880

Morgantown, WV 26507-0880

(304) 285-4348

Fax: (304) 285-4403

E-Mail: jcyzic@netl.doe.gov

Web: www.netl.doe.gov

A Federal fossil energy research facility.

The National Energy Technology Laboratory (NETL) is one of the U.S. Department of Energy's major field organizations. NETL has two sites — one in Pittsburgh, PA, and one in Morgantown, WV. NETL provides science-related educational kits, videos, and resource materials to local elementary schools. Check the above Web site for ordering information. NETL sponsors the West Virginia Regional Science Bowl and the Southwestern Pennsylvania Regional Science Bowl. Approximately ten science teachers spend four weeks at NETL learning about its research programs. The teachers, in cooperation with the NETL staff, prepare lesson plans describing the research for use in science classes. NETL sponsors two-day multidisciplinary seminars covering energy and the environment. Check the above Web site for dates and registration. NETL scientists and engineers serve as math and science resource volunteers, teacher consultants, classroom lecturers, demonstrators, or research advisors to teachers and students. **139**

**U.S. DEPARTMENT OF ENERGY
NATIONAL RENEWABLE ENERGY LABORATORY (NREL)**

Office of Education Programs
1617 Cole Boulevard, MS 1713
Golden, CO 80401
(303) 275-3010
Fax: (303) 275-3076
E-Mail: Cynthia_Howell@nrel.gov
Web: www.nrel.gov/education

NREL is a Department of Energy national laboratory that develops renewable energy and energy efficiency technologies and practices; advances related science and engineering; and transfers knowledge and innovations to address the Nation's energy, security, and environmental goals.

NREL's Office of Education Programs develops and implements science programs that engage the young minds of our future leaders, scientists, and engineers encouraging all to use and develop renewable energy resources. In addition, NREL's undergraduate internship programs connect research to science and technology education, which inspires students to explore sustainable energy solutions to meet our future needs. NREL supports kindergarten through 12th grade science education and undergraduate research focusing on energy efficiency and renewable energy, including managing and supporting numerous local and national science programs for both students and teachers. Programs include an after school 4th grade science literacy program, middle school junior solar sprint/hydrogen fuel cell model car competition, middle and high school science bowls, science teacher professional development, summer research programs for pre-service and practicing teachers, and assistance for students and teachers looking for information, project ideas, lessons, and reference materials on renewable energy and energy efficiency topics. **140**

**U.S. DEPARTMENT OF ENERGY
NATIONAL RENEWABLE ENERGY LABORATORY
NATIONAL ALTERNATIVE FUELS AND CLEAN CITIES
HOTLINES**

9300 Lee Highway

Fairfax, VA 22031

1 (800) 423-1DOE or (703) 934-3069

1 (800) CCITIES or (703) 934-3068

Fax: (703) 934-3183

E-Mail: hotline@afdc.nrel.gov or ccities@nrel.gov

Clean Cities Web: www.eere.energy.gov/cleancities/

Alternative Fuels Data Center Web:

www.eere.energy.gov/cleancities/afdc/

The National Alternative Fuels and Clean Cities Hotlines, sponsored by the Department of Energy (DOE), provide information about the DOE's Clean Cities Program (a voluntary and cooperative effort to promote alternative fuel vehicles), alternative fuel vehicles, advanced technology vehicles, alternative fuels, funding opportunities, regulatory requirements, refueling locations, emissions, idle reduction technology, and much more.

Provides implementation and technical information on DOE's Clean Cities Program, alternative fuel vehicles, and advanced technology vehicles. Helps communities convert to alternative fuel vehicles through coordination planning. Also provides general information about the Clean Cities Program and 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 about the Clean Air Act and Energy Policy Act. Remains in direct contact with the Clean Cities Program Directors, DOE regional offices, involved Clean Cities coalitions, and the National Renewable Energy Laboratory's Alternative Fuels Data Center. Callers can order free publications to be sent by mail or e-mail. The hotlines are available between 9 am and 6 pm, Eastern standard time. The toll-free 800 numbers are available to callers in the United States only; direct numbers are provided for international callers. The Hotlines can also be reached via e-mail at hotline@afdc.nrel.gov or ccities@nrel.gov. **141**

**U.S. DEPARTMENT OF ENERGY
OFFICE OF CIVILIAN RADIOACTIVE WASTE
MANAGEMENT**

Las Vegas Yucca Mountain Information Center
4101B Meadows Lane
Las Vegas, NV 89107
(702) 295-1312
1 (800) 225-6972
Fax: (702) 295-5222
Web: www.ocrwm.doe.gov

The Office of Civilian Radioactive Waste Management (OCRWM) is a Federal program established to manage and dispose of the Nation's spent nuclear fuel and high-level radioactive waste.

Furnishes an online curriculum, "Science, Society, and America's Nuclear Waste," at www.ocrwm.doe.gov/pm/program_docs/curriculum.shtml. The four-unit curriculum is currently being updated. It is designed for use in grades 8 through 12. Also available online is general information, including fact sheets and brochures, on the Civilian Radioactive Waste Management Program and the Yucca Mountain Project. To forward a question, use "questions and remarks" page at www.ocrwm.doe.gov/contact/comments.shtml. 142

**U.S. DEPARTMENT OF ENERGY
OFFICE OF ENERGY EFFICIENCY AND RENEWABLE
ENERGY/ REBUILD AMERICA ENERGYSMART SCHOOLS**

241 West Washington Street (Distribution Center)
Nashville, NC 27856
Phone: (252) 459-4664
Fax: (252) 459-6997
E-Mail: rebuildorders@rebuild.org
Web: www.rebuild.gov

Rebuild America EnergySmart Schools, a program of the U.S. Department of Energy (DOE), works with all members of the schools community to provide information, support and technical assistance about energy efficiency and renewable energy. Rebuild America is a national network of over 685 partnerships that are

dedicated to saving energy, improving building performance, reducing air pollution, and enhancing the quality of life through energy efficiency. Created by DOE in 1994, Rebuild America serves as a tool for community revitalization and job creation in many U.S. communities.

Rebuild America EnergySmart Schools is dedicated to improving learning and teaching environments through energy-efficient design and energy education. Several resources are available through the program for K through 12 school decision-makers, teachers, students, facility managers, and design professionals at no cost. The EnergySmart Schools *Get Smart About Energy* CD-Rom contains over 250 inquiry- and non-inquiry-based energy activities aligned with national and state science education standards. The CD-Rom is used in classrooms nationwide to increase student interest in energy efficiency and conservation in school and at home.

Also available through the program are the climate-specific *Energy Design Guidelines for High Performance Schools* and the *National Best Practices Manual for Building High Performance Schools*. The guidelines and manual provide information about on-site school design, daylighting and windows, energy-efficient building shells, lighting and electrical systems, mechanical and ventilation systems, renewable energy systems, water conservation, recycling systems and waste management, transportation and resource-efficient building products. **143**

**U.S. DEPARTMENT OF ENERGY
OFFICE OF NUCLEAR ENERGY, SCIENCE AND
TECHNOLOGY**

Nuclear Power Systems, NE-30
19901 Germantown Road
Germantown, MD 20874
(301) 903-1536
Fax: (301) 903-7020
E-Mail: Nancy.Hebron-Isreal@hq.doe.gov
Web: <http://nuclear.gov>

*Public Information Office for the Office of Nuclear Energy,
Science and Technology. Responds to public inquiries about the*

commercial nuclear energy industry and DOE's nuclear research and development programs.

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* — both a student and teacher version for grades 7 through 9 — and several others. Also provides a booklet listing nuclear power plants, with operating data, and an educational videotape on nuclear power. All publications are free. 144

U.S. DEPARTMENT OF ENERGY
OFFICE OF SCIENTIFIC AND TECHNICAL INFORMATION
(OSTI)

P.O. Box 62
Oak Ridge, TN 37831
(865) 576-8401
Fax: (865) 576-5728
Web: www.osti.gov

OSTI collects, preserves, and disseminates the scientific and technical information resulting from the Department of Energy's (DOE) research and development activities, as well as environmental programs. The scientific and technical information produced through DOE and its predecessor agencies includes the bulk of recorded knowledge about nuclear energy as well as other energy and science disciplines related to DOE's broad R&D missions.

OSTI provides access to energy, science, and technology information through publicly available Web-based systems, with supporting tools and technologies to enable information search, retrieval and re-use. The Energy Citation Database (www.osti.gov/energycitations) offers over 2 million bibliographic records of DOE scientific and technical information from 1948 to the present, with links to full text when available. The DOE Information Bridge (www.osti.gov/bridge) provides access to over 84,000 fully searchable, full-text technical reports

documenting the results of DOE-sponsored research. The E-Print Network: Research Communications for Scientists and Engineers (www.osti.gov/eprints) provides single query searching of over 350,000 manuscripts, scholarly papers, and other scientific documents residing on almost 13,000 Web sites, as well as a deep Web search across 29 major e-print databases. DOE R&D Project Summaries (www.osti.gov/rnd) contains information on more than 22,000 active DOE-sponsored research projects. EnergyFiles (www.osti.gov/EnergyFiles), the Energy Science and Technology Virtual Library, provides single-query access to over 500 databases and Web sites containing information and resources pertaining to science and technology of interest to DOE, with an emphasis on the physical sciences. OSTI also hosts the FirstGov science portal, science.gov (www.science.gov), in partnership with 17 organizations within 12 Federal science agencies. *Science.gov* provides a gateway to over 1,700 Web sites and offers deep Web searching of 30 databases containing R&D information. OSTI's entire line of electronic products may be accessed through its home page at www.osti.gov, where users may search multiple databases with one query. 145

U.S. DEPARTMENT OF ENERGY

PACIFIC NORTHWEST NATIONAL LABORATORY (PNNL)

Science & Engineering Education (S.E.E.)

P.O. Box 999, Mail Stop K9-83

Richland, WA 99352

(509) 375-2800

Fax: (509) 375-2576

Web: <http://science-ed.pnl.gov/index.stm>

A DOE-funded, multi-program national laboratory, Pacific Northwest National Laboratory (PNNL) puts science and technology to work to solve energy and environmental problems. PNNL focuses on research and development related to waste management, environmental restoration, global environmental change, energy, and national security.

Offers a variety of university and science programs that integrate research and education and support science education reform.

Our education partnerships connect the human and technical resources of the Laboratory with students and teachers in elementary, middle, and high schools; technical/community colleges; and students and faculty at the university undergraduate and graduate levels. Provides opportunities for students and faculty to:

- participate in hands-on science and technology research as it is conducted in a research laboratory;
- participate in projects that investigate scientific and technological challenges; update technical skills and understanding, as well as renew enthusiasm for chosen scientific or engineering research; and
- work with Laboratory scientists and engineers in an interdisciplinary team environment; and use state-of-the-art equipment not commonly found in most schools or colleges/ universities. **146**

U.S. DEPARTMENT OF ENERGY
WESTERN AREA POWER ADMINISTRATION (WAPA)

P.O. Box 281213
Lakewood, CO 80228
(720) 962-7423
Fax: (720) 962-7427
E-Mail: manion@wapa.gov
Web: www.es.wapa.gov

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

Provides contact points with WAPA's customers regarding ongoing energy educational efforts on conservation and renewable energy for students from kindergarten through grade 12. For information, call Randy Manion, Manager, Renewable Resource Program, (720) 962-7423 or e-mail manion@wapa.gov. **147**

**U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT (BLM)**

1849 C Street, N.W.
Washington, DC 20240
(202) 452-5078 (Environmental Education)
Fax: (202) 452-5199
Web: www.blm.gov/

An agency responsible for managing over 261 million surface acres, and 700 million acres of sub-surface mineral estate. BLM's multiple-use mission is to sustain the health, diversity, and productivity of the public lands. The agency manages recreation, wildlife habitat, cultural and historic sites, scenic and wilderness areas, wild horse and burros, livestock grazing, timber harvesting, and energy and mineral development.

Offers a variety of educational energy-related programs and materials. Visit the above web site for programs available in your area, as well as educational products and presentations. **148**

**U.S. DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE (MMS)**

Office of Public Affairs
1849 C Street, N.W.
Washington, DC 20240
(202) 208-3985
Fax: (202) 208-3918
E-Mail: becky.phipps@mms.gov
Web: www.mms.gov/mmskids/

MMS is the regulatory agency responsible for managing the Nation's oil, natural gas, sand, gravel, and other mineral resources on the Outer Continental Shelf, while balancing the need for the development of these resources with the protection of the coastal, marine, and human environments. MMS is also responsible for the collection and distribution of revenues - more than \$8 billion in 2003 - from leasing and production of mineral resources from the Outer Continental Shelf and onshore Federal and Indian lands.

Provides information on gas, oil, mineral, and environmental resources in the offshore waters of the United States. Available materials include: color posters, brochures, fact sheets, statistical summaries, technical reports, newsletters, environmental studies, and professional papers. Topics covered include geology, physical oceanography, marine biology, deep sea ecosystems, social sciences, marine archaeology, and engineering. Most material is free upon request and/or available directly from the MMS Web site at www.mms.gov. Most information is suitable for grades four and higher. Public Affairs Offices in Washington, DC; New Orleans, LA; Denver, CO; Camarillo, CA; and Anchorage, AK, 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. MMS professionals have worked with schools to develop their energy and environmental resources curricula. Comprehensive teacher's guides are available. Call or write to the above address or visit the MMS Web site Kids Page for products available and ordering information. 149

**U.S. DEPARTMENT OF THE INTERIOR
OFFICE OF SURFACE MINING RECLAMATION &
ENFORCEMENT (OSM)**

1951 Constitution Avenue, N.W., SIB-262
Washington, DC 20240
(202) 208-2719
Fax: (202) 501-0549
E-Mail: getinfo@osmre.gov
Web: www.osmre.gov

A regulatory agency responsible for protecting the environment during surface coal mining to insure the land is reclaimed afterward. OSM is also responsible for the reclamation of abandoned mine lands.

Provides materials on surface coal mining regulation and reclamation of active and abandoned coal mine land. OSM has an active program for presentation of award-winning reclamation sites, reforestation programs, and the Appalachian Clean Streams

Initiative (ACSI). The ACSI program also sponsors summer interns to work local watershed projects. Ten college students working in five States throughout the Appalachian region pioneered the OSM's Summer Watershed Intern Program during the summer of 1999.

Each intern was sponsored and hosted by a local watershed group working on acid mine drainage, the cause of the dead, orange-tinted streams in America's historic coal regions. Their stories are some of the remarkable products of a new OSM watershed assistance initiative aimed at helping local communities deal with one of the largest watershed environmental problems in Appalachia. OSM signed Cooperative Agreements with each watershed nonprofit group, providing stipends and some expenses for the interns. OSM also set standards for interns and worked with each watershed group and each of the State coordinators for the OSM Clean Streams projects to define individual summer projects that would leave the watershed group stronger, the watershed cleaner, and the intern better educated. This program will continue in the upcoming years, including possible financial support from other agencies, such as EPA.

More local partnerships will be sought to assist watershed groups in recruiting candidates and working with these groups to make sure that the summer projects selected are the best that can be offered. By linking solid academic content, real watershed achievement, local leadership and participation, and multiple Federal agency support, the Summer Watershed Internship brings effective help to the groups that lead the fight to ensure that the orange streams of Appalachia are to run clean. OSM also offers several videos on reclamation, summer interns, and the clean streams programs. Pamphlets, brochures, posters, book marks, fact sheets, and a teacher resource packet are available free of charge. They can be ordered through the above Web site, or the above e-mail, or by contacting OSM directly at the above phone number. **150**

U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA)

Headquarters Library, 3404T
1200 Pennsylvania Avenue, N.W.
Washington, DC 20460
(202) 566-0556
Fax: (202) 566-0562
E-Mail: public-access@epamail.epa.gov
Web: www.epa.gov

The Headquarters Library provides research assistance to EPA staff. A limited amount of reference assistance is provided to the public about environmental issues and EPA programs. Members of the public are encouraged to submit their requests via e-mail to public-access@epa.gov. 151

**U.S. GENERAL SERVICES ADMINISTRATION
FEDERAL CITIZEN INFORMATION CENTER (FCIC)**

1800 F Street, N.W., G 142
Washington, DC 20405
1 (800) fed-info
Fax: (202) 501-4281
E-Mail: karen.trebon@gsa.gov
Web: www.pueblo.gsa.gov

Helps Federal agencies develop, promote, and distribute consumer information to the public through the Consumer Information Catalog and Web site.

The Federal Citizen Information Center offers the free quarterly *Consumer Information Catalog*, which contains listings of over 200 free and low-cost Federal consumer publications on topics such as health, energy conservation, Federal benefits, money management, housing, employment, small business, education, food and nutrition, and more. A free copy of the catalog is available by writing to Free Catalog, Pueblo, CO 81009. Bulk copies are available to schools and nonprofit groups able to distribute ten or more copies. On the above award-winning Web site, you can read, print out, or save the current *Catalog* and the full text of all the publications listed in it. You can also find great information on a wide range of subjects you are interested

in. Find out about the latest product recalls and scams on the Scams and Recalls pages. Additional features include updates of consumer news and notes from various Federal agencies, and a calendar of consumer-related events.

Also available from the Center is the *2004 Consumer Action Handbook* (formerly the *Consumer's Resource Handbook*). The *Handbook* offers tips on topics such as buying and leasing cars, protecting your privacy and yourself from fraud, and shopping from home. Also includes a sample complaint form that you can use as a guide for your own letter, fax, or e-mail. The *Handbook* offers thousands of names, addresses, phone numbers, and e-mail addresses for Better Business Bureaus, corporate consumer contacts, and State, county, and city government consumer protection offices. You can access the Web edition of the *Handbook* instantly at *ConsumerAction.gov* and use the links provided to register your complaint directly.

In addition, FCIC offers *Lista de publicaciones Federales en español Para El Consumidor*, which lists nearly 250 free Spanish publications available from various Federal agencies.

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VIDEODISCOVERY, INC.

920 N. 34th Street, Suite 300

Seattle, WA 98103

1 (800) 548-3472

(206) 285-5400

Fax: (206) 285-9245

E-Mail: info@videodiscovery.com

Web: www.videodiscovery.com

Videodiscovery, a leading publisher of educational multimedia products for the home and school markets (K-12 and college), was founded in 1983 by D. Joseph Clark from a grant issued by the U.S. Department of Education for development of an educational software product on biology. The Bio Sci laserdisc was the Company's first product.

Over the past 20 years, the Company has become a nationally recognized developer and multimedia publisher, receiving numerous awards and media recognition throughout its history.

The Company's content-rich educational products are for the school and home-consumer markets with a product line that now includes over 25 laserdiscs and 45 CD-ROMs, most of which are part of the newly released Videodiscovery Digital Library. The Company has earned a reputation with administrators, teachers, and students for producing high-impact educational products designed for ease of use including science and math problem-solving mysteries, science in real-life episodes, and multimedia databases. The programs are built on the premise that learning is fun and that, while content will always change and grow, the fundamental skills of obtaining information, thinking critically, and making decisions will serve for a lifetime. All of the materials are curriculum-based and represent four interrelated product suites (Forums, Sleuths®, Computer Performance Based Assessment, and the Digital Library), all of which facilitate development in Critical Reasoning and Inquiry in Solving Problems (CRISP™). **153**

WATER ENVIRONMENT FEDERATION (WEF)

601 Wythe Street
Alexandria, VA 22314-1994
1 (800) 666-0206
(703) 684-2400
Fax: (703) 684-2492
E-Mail: PublicEducation@wef.org
Web: www.wef.org

Founded in 1928, the Water Environment Federation is a not-for-profit technical and educational organization with members from varied disciplines who work toward the WEF vision of preservation and enhancement of the global water environment. The WEF network includes more than 100,000 water quality professionals from 77 member associations in 31 countries.

Facilitates the U.S. Stockholm Junior Water Prize, regional, state and national awards for high school, water related science research; organizes WEFTeach, a full day teacher workshop on water; and publishes *The Water Sourcebook*, with over 60 hands-on classroom activities; many of the water quality experts act as classroom resources through the WEF Adopt-A-School program.

Local members choose to “adopt” schools by providing guest speakers, presentations, and tours of water treatment plants, plus videos and other special resources. Visit www.wef.org for more information. **154**

WATT WATCHERS

University of Texas at El Paso
P.O. Box 68660
El Paso, TX 79968
Toll Free: 1 (888) USWATTS
Fax: (915) 747-5317
E-Mail: watts@utep.edu
Web: <http://wattwatchers.utep.edu>

Watt Watchers is a FREE energy efficiency program for schools. The program is designed for kindergarten through grade 12 classrooms, and it is so simple! Students patrol the halls of the schools reducing energy waste by turning off lights and leaving tickets for those who leave their lights on while no one is in the room. By doing this, a school could save \$50 per classroom. That's right, it costs \$50 per year to light an empty classroom for two hours each school day.

Watt Watchers is available throughout the United States. In Texas, Watt Watchers is sponsored by the Texas State Energy Conservation Office/Comptroller of Public Accounts. Watt Watchers provides schools across the United States with free energy conservation materials. We assist schools in lowering their utility bills by getting everyone involved in the program. Students patrol for lights on in unoccupied classrooms and teachers use our curriculum supplement to teach the students how to conserve energy and the importance of conservation efforts. Through the Watt Watchers program, administrators are given information on how to implement the Watt Watchers program district wide and free energy saving programs like “Sleep is Good,” the EPA’s Monitor Power Management program. **155**

WAVERLY LIGHT AND POWER

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

A municipal utility serving electric needs of the community.

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. **156**

WESTINGHOUSE ELECTRIC COMPANY

Communications Department
P.O. Box 355, Bay 575
Pittsburgh, PA 15230-0355
(412) 374-6803
Fax: (412) 374-3272
E-Mail: kendrolm@westinghouse.com
Web: www.westinghousenuclear.com

A company dedicated to providing high-quality products, services, technology, systems, and management in nuclear energy.

Provides energy-related materials to all who are interested, especially to teachers and to students who will make our energy decisions in the future. One copy of each booklet is 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; and Component Illustrations (color prints). For more information, you may contact the Communications Department of the Westinghouse Electric Company. **157**

WISCONSIN PUBLIC SERVICE CORP. (WPSC)

700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
(920) 433-1002
Fax: (920) 433-5741
E-Mail: kpalmer@wpsr.com
Web: www.wpsr.com

Provides electricity, natural gas, and energy products to more than 400,000 customers in an 11,000 square-mile area of Northeast Wisconsin and Upper Michigan. In addition to our corporate headquarters in Green Bay, we operate fossil, nuclear, and hydroelectric generating plants and have 19 customer centers throughout our service territory.

Provides a wide array of FREE energy-related presentations, publications, and Web links for kindergarten through grade 12 educators **in the WPSC service area**. The materials emphasize electric and gas safety, energy management, protecting the environment, and renewable energy. Some of the special features include teacher and student tours, scholarship information, career exploration opportunities, energy fairs, speaker's bureau, teacher workshops, and electric car demonstrations. Contact WPSC for a complete list of educational offerings. Please visit our Web site at www.wpsr.com. **158**

WOMEN IN MINING EDUCATION FOUNDATION (WIMEF)

P.O. Box 260246
Lakewood, CO 80226-0246
(303) 298-1535 (message only)
E-Mail: wimef@womeninmining.org
Web: www.womeninmining.org

A nonprofit organization dedicated to educating students, teachers, and the general public about the importance of minerals.

WIMEF's mission is accomplished through the development and distribution of hands-on classroom activities, games,

and information, as well as hosting training workshops for teachers. Distribution is accomplished through booths at various conventions and meetings, direct mailings, the Internet, and workshops. A list of workshops can be found on our Web site. Many links to other earth science sites are available. Teachers who do not have Internet access can request free educational packets from the Women in Mining Education Foundation by sending their requests on school letterhead, indicating the grade(s) taught. **159**

XCEL ENERGY

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Minneapolis, MN 55402

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(612) 215-4621 Energy Safety Calendars

1 (800) 880-8463 Nuclear Energy Speakers

(303) 308-6111 Renewables and Wind Energy Speakers

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Web: www.xcelenergy.com

Xcel Energy, Minneapolis (formerly Northern States Power Company and New Century Energy), is the fourth-largest combination electricity and natural gas energy company in the United States, operating in 11 States — Colorado, Kansas, Michigan, Minnesota, New Mexico, North Dakota, Oklahoma, South Dakota, Texas, Wisconsin, and Wyoming.

Xcel Energy provides FREE online energy education resources for grades 3 - 6 at www.xcelenergy.com that includes games, activities and experiments dealing with power sources, the environment and energy conservation. Other offerings include the Energy Safety Calendar and Poster Contest as well as the Classroom Connection program for grades K-12 (available to educators located in CO, TX, WY, KS, NM, OK). **160**

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