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NOVEMBER 2002 • NATIONAL ENERGY FOUNDATION • ACADEMY PROGRAMS NEWSLETTER



Rekindling the Spirit...

The year 2002 has been an exciting one for National Energy Foundation. We have participated in programs from coast to coast and enjoyed many rewarding experiences that have certainly rekindled for us our goals of providing quality materials and programs to educators and industry. Programs such as *Out of the Rock*, *My Earth-Our Home*, *Rebuild America EnergySmart Schools*, the *Academy of Energy Education*, *LivingWise®*, *Fueling the Future*, *Energy Action in Schools*, *Character Education Enrichment*, *Envision Your Future*, *Igniting Creative Energy Challenge*, and the *Polaroid Education Program (PEP)* remind us that our commitment to educational excellence is making a difference on a nationwide scale.

... during an Energy Fair in Utah;



Experts provided valuable information to students at a fall Energy Fair. For 20 years NEF has coordinated education programs for the Utah Energy Office. More *Wise Use of Energy* workshops for teachers and students are scheduled for this year.

... with Rocks and Minerals in Missouri, Utah and Idaho!



We appreciate the opportunities that we have had to meet with educators, government, associations, and industry leaders around the country and look forward to many more educationally beneficial times ahead.

... through Energy Education in Arkansas, and Florida;



In cooperation with Johnson Controls, Inc. and through Rebuild America *EnergySmart Schools*, NEF has reached educators across the United States with a variety of energy programs. Also incorporated into NEF's training workshops is the administration of the *Polaroid Education Program (PEP)* for the Northwest Region of the United States.

... at My Earth-Our Home educator workshops in Illinois, Nevada and California;

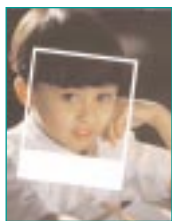


Teachers in nine cities throughout the state of Illinois participated in *My Earth-Our Home* workshops as a result of a new partnership program with NEF, the Illinois Department of Commerce and the Community Affairs' Office of Coal Development. Summer *My Earth-Our Home* activities in Nevada and California also received excellent response. Partnership in these states is with Barrick Gold and Southwest Gas.

Visual Learning:

The Polaroid Education Program and NEF

For the past 10 years, NEF has been involved with the *Polaroid Education Program*. This program encourages visual literacy and visual learning through science, energy, and natural resources workshops. As a long-time advocate



for multiple teaching and learning strategies in the classroom, NEF has found this to be a great collaboration.

Recently, Polaroid extended its relationship with NEF by naming the Foundation responsible for the *Polaroid Education Program's* Northwest Region. In this new capacity NEF will extend its role in delivering a variety of visual learning workshops throughout the west. Anne Lowe, NEF Academy Director, will oversee the coordination and implementation of all visual learning workshops.

Teacher workshops offered through the *Polaroid Education Program* and NEF include LIFEskills, Portfolio, Early Childhood and Visual Learning in Science, Math, Social Studies, Language Arts, Environment or Arts/Humanities.



Tom Crockett, Amy Hegarty, Anne Lowe, and Ed Dalton at NEF Polaroid training.

For more information on scheduling a workshop for your school or organization visit the web site, www.polaroid.com/education or contact Anne Lowe directly at (801) 908-5800, 1-800-616-8326 or anne@nef1.org.

Out of the Rock Workshop Activities

Thanks to the Utah Mining Association, and their 10-year commitment to education, the *2002 Out of The Rock* training program was very successful. Two Wasatch Front workshops trained eighty-two teachers from over 15 school districts. The first two-day summer workshop was held in Farmington, Utah and the second was held in Orem, Utah.



Teachers "dig into" NEF Rock kits

A fall workshop was held during the Utah Education Association (UEA) conference. Twenty-nine teachers attended an interesting one-day program comprised of hands-on learning activities that enhance teaching and learning.

Included in the workshops were classroom demonstrations, a field trip experience, and visual learning education. An excellent variety of educational materials were distributed to the teachers. As with other NEF workshops, these events have been enthusiastically received by teachers and partners alike.

"Being a chemist by education and having several relatives that work in energy and/or mining, I really enjoyed learning more about the chemistry involved in the mining and processing of copper," stated Randy Carr, workshop participant.



Louie Cononelos instructs teachers during tour of the Kennecott Mine.

2002 Academy Medallion Recognition

NEF commends the outstanding participants in the 2002 Academy programs. We are pleased to have had the opportunity to work with such exemplary educators and wish them many future successes.

Living Wise "Do the Bright Thing"

Lisa Wiederholt –
St. John the Baptist Elementary
Draper, Utah

Water Fundamentals

Bonnie Dixon –
Crescent Elementary School
Sandy, Utah

Out of the Rock

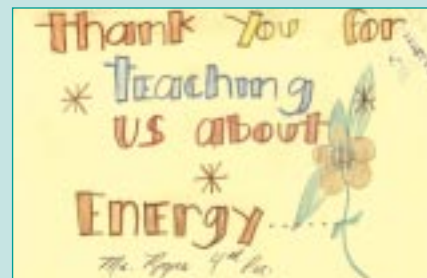
Kenneth Whetsel –
Loudoun Valley High School
Berryville, Virginia

Energy Action Technology

Blaine Petersen –
West Lake Junior High
West Valley City, Utah

Energy Fun

Linda Bernini, and
Mona Clements –
Plymouth Elementary School
Salt Lake City, Utah



up-loading

networking

Fueling the Future Workshop Conducted



Beverly Miller, Director, Salt Lake Clean Cities, one of the experts at the workshop, presents Fueling the Future materials.

Jordan School District hosted a June *Fueling the Future* workshop in Sandy, Utah. This two-day workshop was built around problem solving, decision-making and the public participation process. These concepts were explored within the context of alternative fuels and alternative fuel vehicles.

Participants were given a variety of materials that included the NEF *Fueling the Future* instructional poster, primer and problem-solving/decision-making guide. They also received materials related to recycling used oil, renewable energy sources, air quality, alternative fuel and vehicle choices. A Polaroid visual learning component was also integrated into the workshop.

This first-of-its-kind training could easily be used across the nation to enhance understanding of the issues facing our country in regards to energy usage, energy generation and national security. Participants praised this innovative educational opportunity and were enthusiastic about the materials.

Teacher Donnalee Eisenhart said, "This workshop gave me the opportunity to learn more about other sources of energy which could improve the quality of life for my students."

Alabama Schools Kick-off Energy Savings

In September, Johnson Control's representatives visited Valley Grande Elementary in Selma, Alabama, to help inaugurate the next phase of energy management between Alabama's Dallas County School District and Johnson Controls. They introduced the *Academy of Energy Education* and encouraged involvement in every grade level throughout the district.

Elementary school students form energy patrols to assist in the efficient usage of energy on their campuses. High school students participate in the school-to-work program which helps students learn first-hand about career choices and job opportunities.

Under the direction of Valley Grande teacher, Melissa Smitherman, a program was held for the students that featured the always popular Kilowatt



Kid (a Johnson Controls' South Carolina mascot) and the "Watt Watchers" Energy Action Patrol.

Valley Grande Principal, Calvin Vance, summed up the school district's involvement by saying, "It's going to take a lot of work by the teams at each of our schools, but all of us will benefit, the students, the staff and the taxpayers, not to mention the gains for the environment."



Rebuild America - EnergySmart Schools Review

NEF has been busy in collaborative efforts with DOE's *Rebuild America—EnergySmart Schools* grants and programs. NEF

highlights from the past year include:

... being named a National Strategic Partner in K-12 sector;



... conducting the pilot *EnergySmart Schools PEER Exchange Conference* in Park City, Utah, with 19 school districts from across the country in attendance;



... partnering in *Rebuild America* grants for *EnergySmart Schools* programs in Florida, Minnesota, Wisconsin, and North Carolina;



... giving a presentation at *National SEP/Rebuild America Conference* in New Orleans;

... and receiving a grant to conduct an *EnergySmart Schools Conference* in Oklahoma.

Mine Safety Education Project Moves Forward



NEF's national *Abandoned and Active Mine Safety Education* partnership with the Mine Safety and Health Administration (MSHA) continues to move forward with a number of prominent organizations recently confirming their support of the project. Committed to the project are the Colorado Division of Mines and Geology, the Bureau of Land Management, Caterpillar, the Nevada Division of Minerals, the Office of Surface Mining, Martin Stone Company, the Utah Mining Association, and the Interstate Mining Compact Commission.

The *Abandoned and Active Mine Safety Education* project includes the development of a 23" x 35" full-color instructional poster on mine safety in both English and Spanish. In addition, NEF will develop an accompanying 8-page primer, and coordinate a nationwide distribution to 18,000 key science teachers of the English-language poster in the National Science Teachers' Association's *Science Scope* magazine.

NEF's materials development team is actively working on this exciting new project, but new ideas and support are still welcomed. To obtain more information, call Gary Swan at NEF 1-800-616-8326.

NEF Receives Several Awards for Efforts in Energy Education

NEF is proud to have received several nice honors this fall in recognition of energy education programs and partnerships, including:

- NEF's Colorado *LivingWise Resource Action Program* named recipient of the 2002 CAEE (Colorado Alliance for Environmental Education) *Award for Excellence* in the non-profit category, an honor shared with *LivingWise* partner, Energy Technology Laboratories (ETL);



- The Utah Society for Environmental Education (USEE) selected NEF as recipient of the 2002 *Environmental Education Program of the Year* award;



- The American Planning Association (APA) - Utah Chapter presented NEF with an *Achievement Award* for the *Unique Contribution* of the *Envision Your Future* project (see page 7 for more information);
- The Association of Professional Energy Managers (APEM) selected NEF as recipient of their 2002 *Energy Champion for Energy Education* award in the State of Utah.



Also noteworthy: NEF President, Edward A. Dalton, was elected to the Utah State Board of Education November 5, 2002.

Igniting Creative Energy Challenge Launches



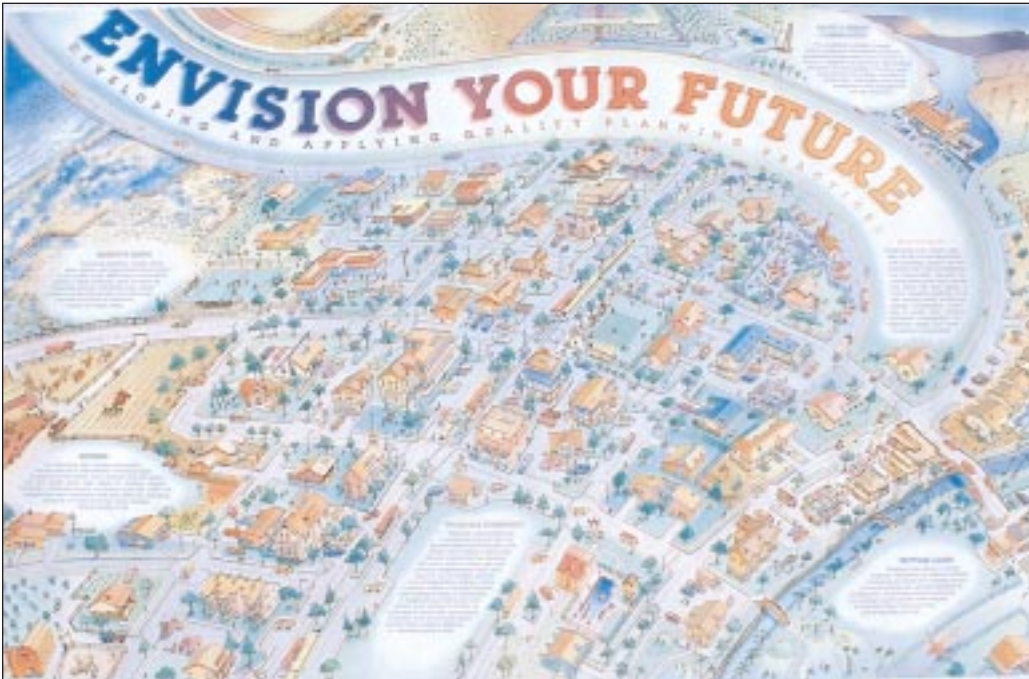
November 11, 2002, was the launch date for the second annual *Igniting Creative Energy Student Challenge* sponsored by Johnson Controls and administered by NEF. Last year's *Challenge* was a huge success. This year the grand prize will be an all expense paid educational trip of a lifetime for three outstanding students and a teacher. Check out the *Igniting Creative Energy* website for more details.



2002 Winners: Amanda Owenby, Grant Lewis, Thomas-Jay Burgess and Martin Teachworth.

www.ignitingcreativeenergy.org

up-loading



Envision Your Future – Developing and Applying Quality Planning Practices

Envision Your Future educational materials are currently under development and targeted for school distribution in the near future. This project, developed for use nationwide, is the result of a partnership between NEF and the Coalition for Utah's Future. It consists of the *Envision Your Future* poster, primer, learning activities guide and a quality growth planning simulation.

The brightly colored instructional poster will be used by teachers to present vital concepts related to quality growth and planning. The back of the poster as well as the primer will feature background information about the topic and learning activities to enhance student understanding.

This program is designed to provide students nationwide the opportunity to experience the public participation process. A unique planning simulation

map will give teachers and students the opportunity to practice quality growth planning and include implementation activities involving local community planners.



Tony Hembrock, NEF Project Manager of the Envision Your Future program is pictured with the American Planning Association's 'Achievement Award for Unique Contribution' to quality planning.

To order these or other NEF materials call for a free catalog or visit our website at www.nef1.org. For additional information or custom printing guidelines, contact Gary Swan, (801) 908-5800, 1-800-616-8326 or e-mail gary@nef1.org.

NEF to Host 2003 Minerals Conference

The 2003 National Minerals Education Conference will be held in Salt Lake City, June 15 – 18, 2003, with NEF as the host organization. The Foundation is honored to have been selected to lead the coming year's event, and has already initiated conference planning activities. To get involved in the planning process, or to register, contact NEF.

Electrical Generation Poster Being Revised

NEF is in the process of revising the popular *Electrical Generation* poster and also the *Electricity Energist*. Changes reflect current industry trends and update statistical information. The new poster front artwork coordinates the visual design to tie in with other recently revised energy posters. Revision of the back includes a change to the 8.5" x 11" panel format. The *Energist* provides teachers with additional learning activities and background information.

interNEF is published to provide timely information about materials, opportunities, and progress of NEF programs.

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President's Message

"Character is more important than intellect." —Emerson



Edward Dalton

Our country has recently suffered from numerous shortcomings of character. These shortfalls and lapses in judgment have happened at companies, in the stock market, on the playing field, in government, and even in schools and homes.

Someone recently asked me, "What good is it to graduate academically gifted students if they lack attributes of character to guide their decision making and behavior?" Quite a thought-provoking question.

Among the many responsibilities of education is graduating well-rounded citizens capable of applying knowledge and demonstrating principles of character at home, in the workplace and the community. One

of the challenges of doing this is being able to prepare students who can think, solve problems, use and apply technologies, and participate in public participation processes so essential to our governance. Where do we learn to serve on committees, commissions, or councils? We learn it at school and at home. Where do we learn to solve problems, make compromises, and resolve conflict? We learn it at school and at home. Our schools then become a training arena for future leaders and the development of commitment should be part of that training.

Employers welcome employees who have developed basic math and reading skills along with the character traits of cooperation, teamwork, gratitude, loyalty, honesty, integrity, punctuality, leadership, and other universal values.

NEF enhances and enriches teaching and learning about energy, natural resources and the environment. We're concerned about science, math, applied technology, literacy, water, energy, engineering, and numerous disciplines. We also design and infuse supplemental instructional materials into disciplines teachers normally teach. Do you need character enhancement, envisioning skills, energy efficiency education or incentives for teaching and learning in your schools? NEF matches needs and resources and provides the training materials and assistance to assure success.

We are constantly rekindling our organization's spirit. In the final analysis, it's really all about character and our ability to accomplish our mission; to determine what we'll do and do it well every time.



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