

## Partners Connect Through Education

—Michelle Tanem, Marketing Manager,  
Education, JCI

Johnson Controls is a recognized leader in creating quality building environments. Environments that are safe, comfortable, healthy, efficient, and technologically advanced. So how can JCI be recognized as a leader in education?

Over the past few years, Johnson Controls has realigned our sales efforts in order to become closer to customers. Today, account executives focus on creating solutions for specific markets such as K-12 and higher education.

We entered a partnership with the National Energy Foundation almost seven years ago to develop the *Academy of Energy Education*. While this energy-efficient, money-saving program is extremely successful, safety and character education have also grown to

become important goals of K-12 schools today. In light of this, JCI and NEF once again went to the drawing board. This time we are developing a program that builds character through responsible action.

Character is shaped by our environments, beliefs, and role models. It is expressed through our actions

and behaviors. The goal of those teaching character education is to develop character principles such as responsibility, respect, safety, honesty, integrity, leadership, stewardship, and more. These positive practices will be delivered to the classrooms through fun, integrated materials correlated to core curriculum.

By including character education and safety, the *JCI Academy of Energy Education* will deliver a program focused on the key issues of our customers, one that goes right into the classroom to help our schools develop quality students.

When we say, "Johnson Controls is connecting through education," we say it proudly and with confidence, thanks to our educational partnerships with our customers and the National Energy Foundation.



## Using Energy Education to Build Character

—Dari Scott, Academy Director, NEF

Character principles are manifested through actions and behavior.

There is an emerging need to teach about and strengthen the character of young people. Efforts to develop positive values, provide practice and opportunity for learning and serving, enhance their self worth, build character and improve responsibility, encourage problem solving, evolve thinking skills, build cooperation and improve safety are all worthwhile character-related objectives.

Education communities throughout the country, as well as national educational leaders are recognizing the need for character education. It needs to be a meaningful part of the classroom instruction and active learning that takes place in many disciplines and in every grade.

Successful character education will increase every student's performance in very positive ways. NEF recognizes the need to strengthen this educational endeavor and is pro-actively tak-

ing steps to integrate character education into NEF programs.

The messages are simple and numerous. Strengthen character. Be responsible. Show respect. Be honest. Have integrity. Be patient. Demonstrate courtesy and cooperation. Provide service and safety. Develop responsible environmental stewardship. Initiate leadership, take action and teach others!

The best legacy we can leave is a good example.

## Energy Smart Effort Extends to Wyoming

The Wyoming Business Council has enlisted National Energy Foundation to provide an *Energy Smart School* program to six Wyoming school districts. Rebuild America - TEAM Wyoming will begin strategy and planning work in April in cooperation with Mr. John Nunley of the Wyoming Business Council, with coordination and program direction administered by Sunny Dent, NEF Director of Programs.

TEAM Wyoming will review proven projects, identify target school districts, form collaborative partnerships with other Wyoming business and energy groups, and proceed to encourage, guide, and support participating school districts to become "energy smart" using the Rebuild America plan of action.

Participating school districts will receive NEF's *Energy Action In Schools* classroom program, which encourages "wise use energy actions" by the entire school community to capture energy savings in schools. This program ties to educational core standards and supports classroom teaching and learning. It is a proven *Energy Smart School* model.

Rebuild America - TEAM NEF looks forward to this promising collaborative opportunity!

### access interNEF

If you would like information about any of NEF's programs or materials, or if you have something to share in the newsletter, contact NEF at:

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## Partnership Strengthens Science Education in Alabama

Thanks to the combined efforts of NEF and Alagasco, the leading provider of natural gas in the state of Alabama, 26 Alabama high school science teachers were awarded \$250 to strengthen and enhance instruction in their classrooms.

Through this innovative partnership, all science teachers in Alagasco's service territory were provided with a variety of instructional resources, including NEF's *Energy in Science* CD-ROM. "The *Energy in Science* program was very useful," writes Becky McCay of Blountsville. "Curiosity is the fundamental driving force in science, but the nature of science involves... controlling variables, constructing models, experimenting, and applying, collecting and interpreting data. Graphing is an important part of science and many standardized tests are developed to test a student's ability to interpret the information. The activities that included col-

lecting data and using it to create a graph strengthens the understanding of how to interpret that data. Thank you for your time and materials."

Mini-grant recipients were especially pleased with the outcome of the program. Julia Covin, high school science teacher at Hillcrest High School in Tuscaloosa, wrote "Thank you very much for the opportunity to receive \$250 for my classroom. The process was excellent. You provided good ideas and designed an easy-to-follow process."

And Janet Youngblood, a science teacher from Pleasant Grove High School in Pleasant Grove, Alabama, expressed her thanks, "Through the support of groups such as the National Energy Foundation and Alagasco, we will continue to improve science education in Alabama and throughout our country."

*This above all: to thine own self be true, and it must follow as the night the day, thou canst not then be false to any man.*  
—William Shakespeare

## Problem Solvers are Winners!

### And the winners are...

...the Future Problem Solving Team from Peruvian Park Elementary School in Jordan School District, Sandy, Utah

Congratulations to Keri, Matt, Peter and Adam. NEF and Johnson Controls, Inc. recognized their creativity and progressive thinking by rewarding each student on the team with a \$100 U.S. Savings Bond.

"In what ways might the United States find a manufactured synthetic energy source with which to replace oil?" This was the "problem of the future" these 5th grade students selected to solve.

Mrs. McConkie's team of students used a 5-step problem solving process to determine and recommend a solid, creative and realistic solution. They pro-

posed a process called "Matter Conversion" involving a complex series of events that may be possible by 2050.

Our future is in good hands with these students who have exhibited outstanding decision making skills regarding the environment and natural resources.



Pictured left to right are Mrs. McConkie, Keri, Matt, Peter, and Adam

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highlight

## 'Energy Star' Schools

Two elementary schools, Oak Hollow and Rose Creek of the Jordan School District in the Salt Lake City, Utah, area have been awarded the Department of Energy and Environmental Protection Agency's **Energy Star Building Award**.

Utah Lieutenant Governor Olene Walker made the presentation Tuesday, March 13, 2001, in a short assembly.

To be named an *Energy Star* school, several levels of energy operation efficiency must be met, including: low energy use in the top 25 percent of similar existing buildings, thermal comfort, indoor air quality, and illuminance levels. Thirty-seven schools in the Jordan School District have been collaborating with the National Energy Foundation in Salt Lake City to adopt a school-wide energy education program for the purpose of lowering energy costs and creating a healthier and more comfortable learning environment.

The *Energy Star* partnership is a voluntary program designed to help save money and protect the environment. NEF and the Utah Office of Energy Services collaborate to promote energy efficiency and the education of students on conservation issues. In light of current rising energy costs, the importance of the efforts made by the Jordan School District and program partners is significant and has provided an innovative way to save on energy costs.



Mike Glenn, OES; Duane Devey, Jordan School District; Lynn Presley, Energy Patrol Leader and Denis Lyons, Principal, Oak Hollow Elementary School

## Idaho Schools Take Challenge

Sixth grade teacher Judith Walling of Eagle Middle School in Idaho was awarded funding from the Meridian School District to implement the *Energy Action in Schools* program. After submitting a grant application to the district office, she was approved to coordinate three *NEF Academy* programs—*Energy Action Patrol*, *Energy Action Team*, and *LivingWise*. These programs, according to Ms. Walling, "provide real-life relevance to acquiring the basic math skills necessary for data collecting, accurate record keeping and analyzing energy costs and savings."

*NEF Academy* programs can provide measurable savings to school and district facilities, while providing teachers with quality integrated instructional materials and university credit.

Ms. Walling has worked with NEF in the past as a coordinator for workshops during summer months. NEF welcomes her as an *Academy* participant.

## NY Custodians Make a Difference

*"Individuals working as a group can make a difference."*

This is just one of the many comments captured from the evaluations of staff participants in the *JCI Academy of Energy Education* training for the Kenmore-Tonawanda School District, Buffalo, New York. NEF conducted this successful custodian training under the direction of Wendy Buchholtz, Johnson Controls Representative and Rick Oliver, Asst. Superintendent of Buildings and Grounds, Kenmore-Tonawanda School District on December 13, 2000.

Special training for the district facilities group was designed for the enhancement of effective energy efficiency technologies in the school district buildings. The value that

each custodian can bring to the program and their leadership and guidance in the schools really make a notable difference with energy conservation. By joining with the principal, teachers, and students in this important goal, the district will experience a positive atmosphere for using energy wisely.



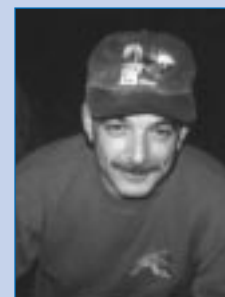
Rick Oliver addresses participants of district training



Jim Oliver



Chuck Contrino



Terence J. Smith



Rich Graham

### Virginia Teacher Excels with *Out of the Rock*

Ninth grade Earth Science instructor Ken Whetsel of Loudoun Valley High School in Purcellville, Virginia, has completed a second year of working with NEF's *Out of the Rock* program. He finds OOTR to be a huge success in the classroom because it "engages students in learning through exciting activities and hands-on experiences."



Mr. Whetsel participates with students in "Pass the Sack," a popular activity

He also finds that the materials help "students develop problem-solving, critical thinking skills and then construct their own theories based on scientific knowledge to achieve their goals."



Students enjoy classroom, hands-on activities

Mr. Whetsel teaches various levels of science education (basic, special ed., academic and honors) and finds that along with instilling an excitement for learning that goes beyond the classroom, the OOTR instructional materials can be applied very successfully to all levels and abilities of learning.

National Energy Foundation recognizes Ken for his outstanding contribution to science and environmental education and wishes him continued success.

## Home Depot Leads the Energy Conservation Challenge

NEF is proud to announce an educational partnership with The Home Depot in California, Nevada, and Arizona. The partnership's focus is on delivering a comprehensive school-to-home and school-wide energy conservation education program. Specific targets for the program include low-income areas in San Francisco, Sacramento, Los Angeles, Santa Ana (Orange County), Las Vegas, and Phoenix.



Each participating school will receive one classroom of the award-winning school-to-home *LivingWise*™ program, one school-based *Energy Action Patrol*, and participation in an *Energy Action*

*Challenge* for two entire grade levels. In the California and Nevada programs, participating schools will compete against each other to see which school can get the highest percentage of students to complete the *Energy Action Challenge*.

With this year's energy crisis already hammering California and threatening other areas of the country, NEF's partnership with a respected community partner like The Home Depot gives added visibility to NEF's efforts to help drive home the increasingly essential message of energy conservation.

## Nevada Workshops Benefit Teachers

Two years ago, Southwest Gas Corporation and Barrick Goldstrike Mines, Inc. joined together to provide a multi-resource, multi-disciplinary educational outreach program for K-12 teachers in the state of Nevada. The program, developed and administrated by National Energy Foundation is called *My Earth - Our Home*.

Glenn Eurick, Director of Environmental Relations for US Operations, Barrick Gold Corp., says, "The *My Earth - Our Home* partnership has been an excellent way for us to

build relationships with the community and with our natural resource business partners."



Participant presents her position during a "Decision Making" activity



Hands-on experience during field trip

Public and private electric and water utility companies and natural gas utility companies have supported NEF programs materials, courses, and services for many years. The Nevada *My Earth - Our Home* Workshops collaboration is just one more example of a successful partnership dedicated to promoting teaching and learning about our earth's natural resources.

## NEF Welcomes New Chairman

National Energy Foundation is guided by a competent board of officers and directors who share their diverse expertise in the fields of natural resources to help achieve the NEF mission.



Mr. Barry Worthington, Executive Director, USEA accepted the position as the new NEF Chairman of the Board.

At the fall Board of Director's meeting Mr. Barry Worthington, Executive Director of the United States Energy Association accepted the position as the new NEF Chairman of the Board.

## AggMan Professional of the Year Named

Congratulations to Bruce Mason, Executive Director, Indiana Mineral Aggregates Association (IMAA), for being named the "2000 AggMan Professional of the Year" by *Aggregates Manager* magazine.

Mr. Mason, who received this prestigious award partially for his industry-leading efforts in community relations and education, has been a good friend of NEF for many years. IMAA was a sponsor of NEF's popular *Aggregates: Nature's Building Blocks* poster and has agreed to help NEF develop the new *Construction Materials* poster.



Bruce Mason (L), receives award from Bill Welgoss (R) of *Aggregates Manager* magazine



## New Poster Explores Waste Management Solutions

With its newest poster, *Waste Management Solutions*, NEF helps teachers understand an integrated approach to waste management, including issues such as source reduction and reuse; recycling; composting; converting waste to energy; and landfill issues.

Everyone produces trash, garbage, and waste. It is estimated that each American produces nearly 4.4 pounds of trash per day. *Waste Management Solutions* deals primarily with municipal solid waste (MSW), or trash that is periodically collected and disposed of from homes and businesses.

Similar to other NEF instructional posters, the *Waste Management*

*Solutions* poster front includes an attractive full-color illustration of the waste management process. On the reverse side, background information and learning activities are presented to aid teacher instruction, including tips for reducing, reusing, and recycling. Also included are a school-based "Waste NOT Campaign" learning activity and activities on composting, recycling, and other important environmental preservation topics.

The new poster was produced with the financial and technical support of Wasatch Energy Systems, a leading waste management company. The poster measures 23" x 35" and is available from NEF.

*Character is the total of thousands of small daily strivings to live up to the best that is in us.*  
—Arthur G. Trudear

*Be more concerned with your character than with your reputation. Your character is what you really are, while your reputation is merely what others think you are.*

—John Wooden

## 2001 Energy Education Award for NEF

The Interstate Oil and Gas Compact Commission (IOGCC) has announced National Energy Foundation as winner of the 2001 Energy Education award. The selection was based on NEF's service to the oil and gas industry and education community for twenty-five years of development, distribution and implementation of educational materials and the coordination of other worthwhile projects.

Governor Tony Knowles of Alaska, the current chairman of the IOGCC, will present the award on Monday, May 14, at their annual meeting in Anchorage, Alaska.

Providing educators with quality instructional materials has been a primary goal of National Energy Foundation for over 25 years and will continue to be an important focus in the future.

## Rock Music Producer Strikes Gold at Grammys

Congratulations to Douglas Spotted Eagle, co-producer of NEF's *Rock Music* CD. Spotted Eagle was recently awarded the 2001 Grammy in the Native American Music category for his production of the *Gathering of Nations* album. Veteran actor Val Kilmer presented the Grammy.



The very popular *Rock Music* CD was co-produced by NEF Director of Marketing Gary Swan and copies may be obtained from NEF. The cost for the CD only is \$12.50, or a complete set of *Rock Music* materials, including teachers guide, poster and CD is \$19.

## Mining Reclamation Joins Minerals Education Materials



Continuing its tradition of producing excellent, up-to-date educational materials regarding mineral resources, NEF is pleased to release the new *Mining Reclamation* primer.

Targeted primarily to secondary science teachers, *Mining Reclamation* provides instructional information and activities that deal with a variety of mining reclamation issues. The primer will also serve as a companion piece to NEF's *Mining Reclamation* poster, produced last year.

The new primer's purpose is to introduce basic reclamation concepts that apply to any type of mining (i.e. hard

rock, coal, aggregates, etc.). Major topics presented include: laws that impact mining reclamation; the phases of mining reclamation; a discussion of native plant species and reclamation; reclamation technology issues and examples; and information about mine closure and abandoned mine lands.

A number of learning activities are included as well as a "decision-making" role-play and an activity on public notices. Original art is included to illustrate various concepts, and teachers are directed toward other useful governmental and industry resources.

*Mining Reclamation* is a two-color publication with eight pages measuring 11" x 17" (newspaper style). Primary funding for the primer was provided through the Phelps Dodge Foundation. Technical assistance and review was completed by numerous industry, government, and educational experts.

The new primers are available for \$0.95 per copy, with quantity discounts and custom printing available.

*Our character is what we do when we think no one is looking.*

—R. C. Samsel

## Reaching Out to Fuel the Future

The Salt Lake City Clean Cities Coalition has initiated a strong public education and outreach program to expand and enhance public awareness of alternative fuel vehicles, domestic fuel resources, and air quality issues. The Utah Office of Energy Services and the National Energy Foundation have partnered with Clean Cities to promote this educational message.

NEF has completed development of the first educational piece in the plan and is unveiling its newest instructional poster, *Fueling the Future—A Challenge to Consider Concerns, Create Solutions*

and *Commit to Action* at the National Clean Cities Conference in Philadelphia, Pennsylvania the first week in May. The full-color 23" by 35" educational poster designed for the classroom provides teachers and students with useful information, definitions, resources, and activities.

This new product is a welcome addition to the NEF family of instructional posters. To learn more about the new *Fueling the Future* poster and other educational materials to be offered through this collaboration, contact NEF.

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## Murray Schools are Getting Smart...

This year all seven elementary schools in the Murray School District have volunteered to participate in the *Energy Smart Schools* program. A training workshop was held in February to get energy patrols organized and running. Custodians from each school also attended the meeting and gave input on how schools could help reduce energy costs. Rod Pace, District Energy Manager, established baselines for each school and answered questions about ways to save



energy. Each school also learned what other district schools are doing to cut costs. Murray City Power and National Energy Foundation have been partners in providing energy awareness and conservation education to Murray Schools through the *Murray Kid Program*. With their current efforts, Utah's Murray School District is looking forward to capturing energy savings resulting in an A+ "energy wise" report card.

*Education commences at the mother's knee, and every word spoken within the hearing of little children tends towards the formation of character.*  
—author unknown

### Let's Do the Bright Thing

As *interNEF* goes to print, NEF has just been selected to collaborate with Utah Power and government agencies in the development, implementation, and evaluation of a major school-to-home energy efficiency education program.

The program will be designed for students and their families in grades 5-8. It will include the delivery of a special edition of NEF's unique *LivingWise Resource Action Kits* to families so that energy saving technologies can be installed and savings be realized this summer and into the fall.

If you are a Utah 5th-8th grade teacher who would like to be a part of this exciting program, please contact Sunny Dent, Director of Programs, at NEF for additional information.

*interNEF*, a newsletter to encourage the sharing of ideas and to promote the sponsorship of successful education programs, is published to provide timely information about materials, opportunities, and progress of NEF programs. Its target audience includes sponsors, teachers, and students of all programs, as well as friends of NEF.

We are proud of our sponsors who have a commitment to education. It is our desire to share the efforts and successes of each of our programs, and *interNEF* will feature different programs and projects within each issue.

NEF President, Edward Dalton, Ed.D  
Managing Editor, Dari Scott  
Editor, D. Wright  
Layout & Design, Etta Stephens

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### Utah Debate Program



Participants enjoyed the trade floor

#### 2001 Utah Debate Resolutions

*"Resolved: That the State of Utah should establish a plan to manage water usage within the state."*

—Policy Resolution

*"Resolved: That when in conflict, Utah water conservation must take priority above economic concerns."*

—Lincoln-Douglas Resolution

The 2001 Utah Debate Conference for teachers and students was held Saturday, February 3, 2001 at Riverview Junior High School in Salt Lake City, Utah. One hundred one teachers and 392 students, representing nine Utah school districts, attended the conference to learn more about debate process, information-gathering skills and to obtain direction in finding resources that can be used in formulating the 2001 debate position speeches. The culmination of the program is the State Tournament, which will be held May 5, 2001 at Taylorsville High School in Salt Lake City.



Gathering information from the experts who presented



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RESOURCES FOR EDUCATION

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**interNEF**

APRIL 2001

*\*Children learn best  
when they also learn...*

*respect  
responsibility  
honesty  
integrity  
civility  
civic-mindedness  
fairness  
compassion  
courage  
loyalty  
truth*

*\*Character Education Partnership,  
Washington, DC • www.character.org*

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TO:

President's Message  
Edward A. Dalton

## Happy Birthday NEF



Reflect back to the OPEC oil embargo. We had just experienced a major oil crisis and people didn't understand. What happened? Why? Who was to blame? These

were some of the questions that were buzzing around the nation and appearing in the media. Among the many diverse reactions was the usual plea — "Help! Educators, please help!" The public needed to be educated. Teachers could help, students would learn, and a population that would make better decisions about our energy future would be developed.

In the midst of all of this, "Energy and Man's Environment" and "National Energy Foundation" were formed. Both created programs, materials, practices and resources to help teachers infuse energy and natural resources concepts into their curriculum.

These two organizations merged and the 'new' National Energy Foundation was formed. Originally chartered in 1976, NEF will celebrate its 25th birthday this year. Twenty-five productive years of service to education,



teachers and students, government and associations, business and industry. Twenty-five years of instructional materials development, distribution and implementation; and teacher

training and professional development. Twenty-five years of building character and leadership through responsible educational practices, and environmental stewardship.

Is the work finished? No! An energy crisis is looming on the horizon. The very motives that resulted in NEF being formed 25 years ago are as important today as they were then. NEF is needed now more than ever, and is prepared to respond with materials, programs, and services that will help conserve resources, increase understanding, and improve energy independence and self-reliance.

We express our sincere appreciation to all those who have contributed to NEF's 25 years of leadership. But, we cannot look back for long. There is too much work still to be done. We enlist your help and support to make the future of our nation's energy and natural resources secure. Please continue your efforts toward this important goal and together we will reach our full potential.