



Virginia team wins again at National Science Bowl®

Savannah River security team tops in competition

DOE presents annual small business awards



U.S. Department of Energy



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On our cover

The student team from Thomas Jefferson High School for Science and Technology, Alexandria, Va., took first place for the third consecutive year in the academic competition at the Department of Energy's (DOE) National Science Bowl®, held at the National 4-H Center, Chevy Chase, Md., April 30 to May 3, 2004. The team was sponsored by DOE's Thomas Jefferson National Accelerator Facility.

In the top photograph, l-r, students Lisa Marrone, Kay Aull, Samuel Lederer, Michael Zhang, and Paul Yang, and coach Sharon Baker display their championship trophy and \$1,000 check for the school's science department. The team also won a two-week trip to London, England, to attend the International Youth Science Forum. In the bottom photograph, Zhang, Aull, Yang, and Lederer compete in the final round.

For more on the 2004 National Science Bowl, see page 3. ❖

Team wins Science Bowl three years in a row

The Department of Energy (DOE) held its 2004 National Science Bowl® April 30 to May 3 at the National 4-H Center, Chevy Chase, Md. More than 300 senior high school students, winners of regional competitions held earlier this year across the United States, traveled to the nation's capital to compete in the tournament.

"The Science Bowl is part of the Energy Department's efforts to encourage students and their teachers to achieve excellence in the sciences," Secretary of Energy Spencer Abraham said. "By supporting educational excellence we help provide a technically trained and diverse workforce for the agency and the nation."

A total of 64 teams from 39 states, the District of Columbia, and the U.S. Virgin Islands participated in the 14th annual event. After two days of round robin and double elimination matches and finalist rounds on May 2-3, Thomas Jefferson High School for Science and Technology, Alexandria, Va., sponsored by DOE's Thomas Jefferson National Accelerator Facility, emerged victorious in the academic competition for the third consecutive year. Dr. Raymond L. Orbach, Director of DOE's Office of Science, presented the Virginia team the national championship trophy. The team also won a two-week trip to London, England, to attend the



L-r, Nathan Savir, Gilbert Huang, Nuvan Rathnayaka, and Christopher Simpson, second place A&M Consolidated High School, compete in the final round of the academic tournament.

International Youth Science Forum and three Texas Instruments (TI) Computer Based Laboratory IIs.

Placing second was A&M Consolidated High School, College Station, Texas, sponsored by Texas A&M University. The team's prizes include a one-week environmental research trip in South Carolina and two TI Computer Based Laboratories.

Third place Baton Rouge High School in Louisiana, sponsored by DOE's Strategic Petroleum Reserve Project Office, will conduct geological research for one week in Oklahoma. The team also received one TI Computer Based Laboratory.

Placing fourth was Montgomery Blair High School, Silver Spring, Md., sponsored by DOE Headquarters. Fifth place went to North Hollywood High School in California, sponsored by Los Angeles Department of Water and Power. Civility Award winner Shasta High School, Redding, Calif., sponsored by Redding Electric Utility, will

spend a week at the Crow Canyon Archeological Center, Cortez, Colo.

Texas Instruments provided a TI-89 scientific calculator to each student and coach on the top five teams. Each member of the Civility Award team received IBM Personal Data Assistants. The top 16 teams received \$1,000 each for their schools' science departments.

On Science Day, May 1, 16 teams selected by "lottery" designed, built and raced hydrogen fuel cell model cars in the National Science Bowl's second annual Hydrogen Fuel Cell Model Car Challenge. University High School, Morgantown, W.Va., sponsored by DOE's National Energy Technology Laboratory (NETL), placed first in the Grand Prix speed race. Chaska High School in Minnesota, sponsored by Minnesota Academy of Science, won the "King of the Hill" contest. The teams received \$1,500 each for their schools' science departments.

Edmond Home School Co-op, Oklahoma City, Okla., sponsored by NETL, and Skyview High School, Billings, Mont., sponsored by DOE's Western Area Power Administration (WAPA) placed second and third in the speed race. Shasta High School, Redding, Calif., and Red River High School, Grand Forks, N.D., sponsored by WAPA, were second and third in the King of the Hill contest. The second and third place teams each received \$1,250 and \$1,000, respectively, for their schools' science departments.

The Office of Science administers the National Science Bowl for DOE. Corporate sponsors this year were Bechtel, General Motors, IBM, Kodak, Thames & Kosmos, and Texas Instruments. Additional information is available at <http://www.scied.science.doe.gov/nsb>. ❖



L-r, Brian Jones, Mark Soderholm, Natalie Jackson, Kenny Taubenslag, Amy Dawson-Andoh, and coach Paul Miller, University High School, show their winning hydrogen fuel cell model car.

ORNL selected for science research supercomputer

The Department of Energy (DOE) has selected its Oak Ridge National Laboratory (ORNL) in Tennessee and ORNL's development partners, Cray Inc., IBM Corp., and Silicon Graphics Inc., to receive \$25 million in funding to begin building a 50-teraflop (50 trillion calculations per second) science research supercomputer. ORNL won the award in a peer-reviewed competition with three other DOE Office of Science (SC) national laboratories.

"This new facility will enable the Office of Science to deliver world leadership-class computing for science," Secretary of Energy Spencer Abraham said. "It will serve to revitalize the U.S. effort in high-end computing. It is no exaggeration to say that this machine will give both the U.S. scientific community and industrial sector a significant competitive advantage over the rest of the world."

The supercomputer at ORNL will be housed in a new 170,000-square-foot facility that includes 400 staff and 40,000 square feet of space for computer systems and data. The machines will run on 12 megawatts of power supplied by Tennessee Valley Authority. ORNL's Center for Computational Sciences is housed in the facility.

The capacity of the current ORNL Cray X1 computer will be increased to

20 teraflops in 2004 with a 20-teraflop Red Storm-based system from Cray added in 2005. DOE's Argonne National Laboratory expects to install a 5-teraflop IBM Blue Gene computer as part of this project. A 100-teraflop Cray system at Oak Ridge is planned for 2006, with the potential to increase to 250 teraflops in 2007.

ORNL was one of four laboratories that submitted proposals in response to a solicitation letter sent to all 10 DOE Office of Science national laboratories. Proposals also were received from Brookhaven National Laboratory, Lawrence Berkeley National Laboratory, and Stanford Linear Accelerator Center. The proposals were designed to improve substantially the national research community's computing capability and thereby enhance prospects for important research advances and scientific breakthroughs in all science disciplines supported by DOE and other Federal science agencies.

The Office of Science conducted a rigorous and thorough review of the four proposals. The applications were peer-reviewed, with the six external



The Center for Computational Science at the Department of Energy's Oak Ridge National Laboratory, has 40,000 square feet of space for computer systems and data storage.

reviewers selected for their scientific expertise and absence of conflict-of-interest. An analysis and recommendations were submitted to SC Director Raymond L. Orbach, who then selected the ORNL proposal.

SC's Advanced Scientific Computing Research program supports fundamental research in applied mathematics, computer science, and networking and provides world-class, high-performance computational networking tools that enable DOE to fulfill its missions. Additional information on the program is available at <http://www.science.doe.gov/feature/ASCR.htm>. ❖

'Mission need' approved for upgrading CEBAF

A "mission need" has been established by the Department of Energy (DOE) for upgrading the Continuous Electron Beam Accelerator Facility (CEBAF) at the Department's Thomas Jefferson National Accelerator Facility (Jefferson Lab). Following a tour of Jefferson Lab on April 19, 2004, Deputy Secretary of Energy Kyle McSlarrow told laboratory employees that he had signed the "Critical Decision Zero" (or CD-0) for the proposed CEBAF 12 GeV (billion electron volts) Upgrade.

"The CEBAF Upgrade is one of the top priorities in Energy Secretary Abraham's facilities plan, coming alongside important projects in biotechnology, computation, and a new generation of electron microscopes,"

Deputy Secretary McSlarrow said. "CEBAF will be in the future, as it is today, one of the premier nuclear physics machines in the world."

The proposed CEBAF Upgrade would double the energy of Jefferson Lab's electron beam to 12 GeV, build a fourth experimental hall equipped with state-of-the-art detectors, and upgrade the laboratory's computer processing capabilities. The upgrade would provide much more precise data on the structure of protons and neutrons as well as open up new physics regimes for study.

CD-0 is the first of five "critical decisions" that govern construction of DOE facilities and projects and is only authorized following a rigorous

review of the justification for a mission need for the facility and a management strategy for acquiring it. The CD-0 is required prior to the development of a conceptual design report and submission of a budget request for the start of project engineering and design efforts. It represents the first step in project definition and does not guarantee eventual construction. The purpose of the phased critical decision process is to provide structured management review of project readiness prior to each major step in project acquisition. The DOE Order governing the construction process is available at <http://www.science.doe.gov/SC-80/sc-81/PDF/O4133.pdf>. ❖

DOE presents small business awards



The Small Business Diversity Achievement Award was presented to the Office of Security and Western Area Power Administration (WAPA). L-r, are Secretary Abraham; Judy Madsen, WAPA; Leslie Gasperow, Office of Security and Safety Performance Assurance; Theresa Alviljar-Speake, Director, Office of Economic Impact and Diversity (ED); and Yosef Patel, Deputy Director, ED.

In a May 12 ceremony at Department of Energy (DOE) Headquarters, Washington, D.C., Secretary of Energy Spencer Abraham announced the winners of the 2003 DOE National Small Business Awards. The annual awards

recognize outstanding performance by Department elements and facility management contractors in fostering opportunities for small businesses.

In Fiscal Year 2003, DOE exceeded its prime contract goal established with the U.S. Small Business Administration of 3.7 percent of all contracts. DOE achieved a goal of 4.1 percent for a total of \$783 million. During the same time, the Department was able to attain \$3.5 billion in subcontracting work for small businesses, or 48.1 percent of all subcontracts issued.

The awards and winners are:

- **Small Business Breakout** - Strategic Petroleum Reserve, Office of Fossil Energy;
- **Small Business Goal Achievement** - Office of Inspector General;

- **Small Business High Dollar Achievement** - Office of Policy and International Affairs;
- **Small Business Diversity Achievement** - Office of Security; Western Area Power Administration;
- **Small Business Teaming Achievement** - RS Information Systems (RSIS), McLean, Va.;
- **FMC Small Business Achievement** - Bechtel SAIC Company, LLC;
- **FMC Small Business Diversity Achievement** - UT Battelle;
- **DOE Headquarters Small Business Program Manager of the Year** - Kay Rash, Office of Environmental Management;
- **DOE Field Office Small Business Program Manager of the Year** - Scott A. Burns, Southwestern Power Administration;
- **DOE FMC Small Business Program Manager of the Year** - Theresa Carson, Sandia National Laboratories;
- **Mentor-Protégé Team, Mentor** - Westinghouse Savannah River Company; and
- **Mentor-Protégé Team, Protégé** - Integrated Water Resources Inc. ❖

Savannah River has a new national laboratory

During a visit to the Department of Energy's (DOE) Savannah River Site on May 7, Secretary of Energy Spencer Abraham designated the Savannah River Technology Center as the Savannah River National Laboratory. Secretary Abraham was joined by South Carolina Governor Mark Sanford, U.S. Senator Lindsey Graham (R-SC), and U.S. Congressmen Gresham Barrett (R-SC) and Max Burns (R-GA).

"President Bush and I are proud of the scientific and technical work ongoing at the Department of Energy's national laboratories," Secretary Abraham said. "And today, we are even more proud to designate this new laboratory and make it a full partner in the critical missions performed by DOE facilities."

At the designation ceremony, Secretary Abraham and Governor Sanford unveil a replica of the sign

that will drape the new laboratory. Joining them on stage (l-r) are Savannah River Operations Manager Jeff Allison and Congressman Burns. Also on stage, but not visible behind the Certificate of Designation are Congressman Barrett, Westinghouse Savannah River Company President Bob Pedde, and Savannah River National Laboratory Director Todd Wright.

The SRTC began operations in 1951 to provide research and development support for the Department's

nuclear facilities complex and national defense. The Savannah River National Laboratory's work will continue on waste processing, environmental remediation, nonproliferation technologies, and national security projects. ❖



Bonneville, Kansas City staff help save lives

Many Department of Energy sites offer cardiopulmonary resuscitation (CPR) and defibrillator training to employees. Recently, employees at the Bonneville Power Administration (BPA) and Kansas City Plant were able to put that training to use to help save two lives.

Driving northwest of Olympia, Wash., on U.S. Highway 101 on April 13, 2004, BPA linemen Lloyd Long and Lon Bickler came upon a man slumped over the rear of a large truck. They stopped to render aid and found the man incoherent and showing symptoms of a heart attack. After calling 911, Long and Bickler used the defibrillator from their line truck and administered an electric shock. They then started CPR and continued until a rescue unit arrived. The man was flown to Harbor View Trauma Center in Seattle where he was in full recovery by month's end.

"This is the first time we've used a defibrillator in a life-saving event. It made all the training worthwhile," Orion Albro, BPA Regional Manager, said. BPA began training all its field crews in use of the automated external defibrillators along with CPR in 2000

and has since put the machines with all its line crews and other field crews.

Long and Bickler soon became local heroes, with several news media outlets covering their life-saving efforts. Washington Governor Gary Locke sent letters to Long and Bickler commending them for their "willingness to intervene in an emergency and for the remarkable way in which you put your first aid training to use."

Kansas City Plant fire protection specialists William Cochran and Randy Osborn, and fire protection sergeant Roosevelt Reed were presented the American Red Cross Certificate of Merit for saving the life of a coworker in cardiac arrest through the combined use of CPR and an automated external defibrillator. The Certificate of Merit, one of the highest honors presented by the American Red Cross, is awarded for action that exemplifies the highest degree of concern of one human being for another who is in distress. Cochran, Osborn, and Reed credit the American Red Cross training the Kansas City Plant fire department and other employees have received. ❖



BPA linemen Lloyd Long (left) and Lon Bickler are back at their station with the defibrillator they carry in their line truck.



Kansas City Plant's William Cochran (left) and Randy Osborn (right) accept their awards from an American Red Cross representative.

Brazil meetings expand energy cooperation

Secretary of Energy Spencer Abraham traveled to Brazil in mid April 2004 for a series of meetings with government officials to further cooperative energy efforts between the two countries. His visit was a direct result of the June 2003 meeting of President George Bush and President Luiz Inacio Lula Da Silva when the two world leaders agreed to launch a broad, bilateral energy partnership focusing on hydrogen energy, energy sector investment, carbon sequestration, electricity modernization, and offshore drilling project safety.

On June 20, 2003, in Washington, D.C., Secretary Abraham and Brazilian Mines and Energy Minister Dilma Rousseff signed an agreement to

formally initiate energy cooperation (*DOE This Month*, July 2003). Since launching the energy partnership, the two countries have made substantial progress on these cooperative efforts and are working together on two major international initiatives—the Carbon Sequestration Leadership Forum and the International Partnership for the Hydrogen Economy.

On April 19, 2004, in Brasilia, Brazil, Secretary Abraham and Minister Rousseff announced a collaborative effort to advance hydrogen sector research, development and deployment activities, both bilaterally and multilaterally. A joint team of U.S. and Brazilian officials and experts will develop a hydrogen energy technology roadmap for Brazil. The

roadmap will consider possible pathways for future hydrogen production, storage, transfer, end-use technologies, safety codes and standards, and outreach/communication efforts.

Later that day, Secretary Abraham and Minister Rousseff traveled to Scarborough, Republic of Trinidad and Tobago, to attend the Sixth Western Hemisphere Energy Ministers Conference, April 20-21. Ministers from 33 Western Hemisphere nations engaged in discussions on public-private sector dialogue to increase energy development and trade, improvements to energy efficiency, regulatory cooperation, market integration, and initial steps to develop a Western Hemisphere energy security agenda. ❖

DOE security forces test their skills

The forces that protect Department of Energy (DOE) facilities gathered at the Department's Savannah River Site (SRS), May 3-6, to test their skills in the 32nd Annual Security Police Officer Training Competition (SPOTC). In the end, it was a team from Savannah River that dominated the event.

Casey Petosky was named DOE Security Police Officer of the Year, and Security Police Officers Cliff Melton, Petosky, Billy Reynolds, Douglas Scott, Ryan Strader, and Mike Weaver, along with Team Captain Sgt. Clay Bryant, earned the Secretary's Trophy as the top DOE team at the competition. The team members are employed by Wackenhut Services Incorporated (WSI), the security contractor at the 310-square-mile Savannah River Site.

"I'm honored, but also a little surprised to capture the top award," Petosky said. He is a new member of the Wackenhut team at SRS, joining the company last fall after serving five years in the U.S. Marine Corps.

"You are an incredible group," Secretary of Energy Spencer Abraham told the security officers at the SPOTC awards luncheon. "You are the best of an outstanding force that protects the Department of Energy complex. All of you represent the most skilled and capable elements of the protective forces at your respective DOE sites and other organizations,



The Wackenhut Services-Savannah River Site team displays the Secretary's Trophy. L-r are Ryan Strader; Billy Reynolds; Mike Howard; Clay Bryant; Cliff Melton; Douglas Scott; Mike Weaver; Casey Petosky, Security Police Officer of the Year; and Secretary of Energy Spencer Abraham, who presented the trophy to the winning team.

and I congratulate and commend you for the hard work, dedication, and accomplishments that brought you here."

"We are immensely proud of our team's group and individual accomplishments in this very challenging competition," said Dr. Lawrence Brede, Jr., WSI-SRS General Manager. "It clearly validates the training program for all of our Security Police Officers and raises the bar for performance excellence."

The annual competition provides an independent evaluation of how a particular site stacks up against the best in the country and serves to validate training programs. This year's competition was hosted by the Savannah River Operations Office and Wackenhut. Twenty-one teams competed and trained over a period of four days, testing their physical fitness, marksmanship, and critical decision-making abilities—skills that are vitally important to DOE's critical security mission .

In the individual competition, Billy Reynolds, WSI-SRS, placed second, followed by Daniel Repose, Lawrence Livermore National Laboratory (LLNL); James Balch, LLNL; and Douglas Scott, WSI-SRS. The Pantex team won second place in the competition for the Secretary's Trophy, followed by teams from LLNL, Hanford Site, and Nevada Test Site. ❖

The intent of continuous evaluation is to provide for early identification of HRP individuals whose judgment could become impaired by physical, mental, or personality disorders; the use of illegal drugs or abuse of legal drugs or other substances; the abuse of alcohol; or any other condition or circumstances that may represent a reliability, safety, or security concern.

The HRP Rule, which became effective April 22, 2004, was published in the Jan. 23, 2004, Federal Register, Vol. 69, No. 15. ❖

Human Reliability Program Rule implemented

The Department of Energy (DOE) Human Reliability Program (HRP) Rule, 10 CFR, part 712, is a nuclear explosive safety and national security program designed to ensure that individuals occupying HRP designated positions meet the highest standards of reliability, including physical and mental stability. The duties of HRP individuals may include researching, testing, producing, disassembling, or transporting nuclear explosives. These duties require certification by DOE Site Security Offices for

unescorted access to certain materials, facilities, and programs.

The Office of Occupational Health in the Office of Environment, Safety and Health (EH-53) collaborated with the Office of Security Policy in the Office of Security (SO-11) in the development of the HRP Rule. The Office of Security Policy, in Subpart A of the rule, established the provisions and HRP requirements. The Office of Occupational Health, in Subpart B, developed the medical standards and psychological assessment criteria.

LLNL leads Tri-Valley Science and Engineering Fair



More than 300 students in grades 7 to 12 turned out for this year's Tri-Valley Science and Engineering Fair in San Ramon, Calif., cosponsored by the Department of Energy's Lawrence Livermore National Laboratory (LLNL). The 264 projects covered several disciplines, including biology, math and computer sciences, botany, earth and space science, physical science, and zoology.

About 150 local science and technology professionals, more than half from LLNL, evaluated the entries on creativity, scientific thought, thoroughness, skill, and clarity of presentation. At left, eighth-grader Emma Bryant, age 9, Harvest Park Middle School, discusses her project with Don Jedlovec, LLNL. Bryant won third place in the junior division, physical sciences category.

The senior division winning projects, "Bacterial Electroporation" and "Effect of Chlorine on Lung Function of Outdoor Swimmers," were entered in the Intel International Science and Engineering Fair in Portland, Ore. The senior winners will be offered summer employment at LLNL or another Tri-Valley technical organization. ❖

Argonne Lab, China sign transportation research MOU



Larry Johnson (left), Director of the Transportation Technology Research and Development Center at the Department of Energy's Argonne National Laboratory, and Zhao Hang, President of the China Automotive Technology and Research Center, signed a memorandum of understanding during the recent Society of Automotive Engineers' World Congress in Detroit, Mich. The initial research under the agreement involves collaboration in advanced vehicle systems simulation using computer models developed at Argonne.

Johnson called the agreement "the start of an important research activity" because China's motor vehicle market is growing at a rate of 20 percent each year. "In less than 20 years, China and the U.S. should be the two largest petroleum consumers in the world," Johnson said, making more efficient vehicles important to both countries. ❖

Kansas City Plant earns StormReady designation



The National Weather Service's StormReady program emphasizes preparedness to strengthen local safety programs and help reduce storm-related fatalities. StormReady status is usually conferred on cities or counties. But, on March 22, 2004, the Department of Energy's (DOE) Kansas City Plant (KCP), a National Nuclear Security Administration facility, became only the second industrial site in the nation to earn the designation. DOE's Idaho National Engineering and Environmental Laboratory is the other site.

The Plant will provide information to and receive information from area emergency response organizations in times of severe weather. Required Storm Spotter training is being offered to KCP employees.

"In addition to protecting the people and resources of the Kansas City Plant, our StormReady status is beneficial to the surrounding community," Clyde Hicks, KCP emergency management specialist said. "Our observations, communicated to the National Weather Service, help them warn the public more quickly and accurately about dangerous weather." At left, Hicks proudly displays the Plant's StormReady sign. ❖

Savannah River HEU program ships 500th container

The Highly Enriched Uranium (HEU) Blend Down program at the Department of Energy's Savannah River Site completed an accelerated schedule and shipment offsite of its 500th container of low-enriched uranium (LEU) on March 17, 2004. The blend down program was initiated in part to support the national effort to dispose of surplus stockpiles of HEU. The HEU is blended with natural uranium to produce LEU that will be used in the production of commercial reactor fuel to be used by the Tennessee Valley Authority (TVA).

Savannah River's H Area was ready to begin blending material and shipping in March 2003. TVA confirmed its readiness to receive the LEU in July 2003. A three-month accelerated production program began in January 2004 to reduce the level of HEU stored in H Area and to recover from the initial three-month delay in operations. The HEU Blend Down program, now back on schedule, requires the shipment of approximately 2,800 containers. In the photograph, Savannah River's Marshall Rodgers (left) and Mike Mayson load the 500th LEU canister. ❖



Department takes class act to teachers

The Department of Energy's (DOE) Office of Science (SC) offered up a diverse mix of experiments, lesson plans, and teaching tips at the National Science Teachers Association's (NSTA) 52nd National Convention in Atlanta, Ga., April 1-4, 2004. Approximately 15,000 science teachers attended the convention.

The SC exhibit pavilion presented a wide variety of professional enrichment activities, from instruction on fuels for the future, such as the hydrogen fuel cell and strongly heated plasmas, to the safe disposal of radioactive waste. In addition to the display booths from SC programs and national laboratories, daily 30-minute classroom sessions, as well as a 90-minute "share-a-thon" allowed teachers plenty of hands-on attention. "Science teachers...can only benefit from a well-rounded sampling of what DOE has to offer and ways we can support their teaching efforts," Peter Faletra, SC Assistant Director for Workforce Development for Teachers and Scientists, said.

At right, Valerie Allen, technical information specialist with the Office of Scientific and Technical Information (OSTI), demonstrates OSTI's deep Web search technology. ❖



ANL-West recognized for safety performance

During the recent Nuclear Energy Safety Summit in Washington, D.C., the Department of Energy's Argonne National Laboratory-West (ANL-W) in Idaho received recognition for a significant safety performance milestone. The National Safety Council issued an award to ANL-W for its dramatic improvement in lowering the organization's employee lost workday case rate—a key safety performance measure—by logging over 400 days and counting without a lost workday case. The Council issues these awards to organizations demonstrating exemplary safety performance or major accomplishments.

In the photograph, ANL-W Director Robert Benedict (left) displays the award plaque, which was presented by former Under Secretary of Energy Robert Card and William D. Magwood IV, Director, Office of Nuclear Energy, Science and Technology (right). ❖



DOE moms successfully balance career, family

Several new mothers in the Department of Energy's (DOE) National Nuclear Security Administration (NNSA) have established a group called Working Moms in Nonproliferation (WMN). Initially, two women got together informally to discuss their efforts at balancing family and work responsibilities. Six months later, the group (pictured) had grown to eight, with children ranging from newborn to four years old.

Seven of the eight WMN employees work in NNSA's Office of Defense Nuclear Nonproliferation (NA-20). Recognizing this, NA-20 Deputy Administrator Paul Longworth stated, "The work in the nonproliferation field is very demanding, and in order to retain our experienced professionals, it is essential that we work with our employees as much as we can to develop schedules that allow them to meet their commitments to their families and DOE. Only this way can we have a win-win situation for all involved."

Cindy Lersten, a member of the Senior Executive Service participating



in WMN, said the key to achieving work-family balance is supportive management. Adaptability also is an important factor in balancing work and family effectively. Many WMN participants agree that flexible work schedules are essential and some have worked out flexible arrangements, including telecommuting and working compressed work weeks or reduced hours.

This doesn't mean, however, that the caliber or quantity of work performed is diminished. "My

management is very supportive of my working from home one day a week, but this also means we must both be flexible in terms of scheduling," said Sarah Lennon, Office of Fissile Materials Disposition.

DOE has been recognized as a leading Federal agency in the area of balancing work and family. In a recent survey among Federal agencies conducted by the Partnership for Public Service and the Institute for the Study of Public Policy Implementation at American

University, DOE was ranked third for work-life balance and fifth for having a family-friendly culture.

The parents in WMN and DOE management all have a similar goal of establishing a safe and secure future not only internationally, but also at home. WMN serves as a support network for the participants. They welcome other DOE moms and dads to join their meetings. For more information, contact Cindy Lersten at clersten@yahoo.com, or Sarah Lennon at sarah.lennon@nnsa.doe.gov. ❖

Final RFP released for Idaho National Lab

The Department of Energy (DOE) has released a final Request for Proposals (RFP) inviting companies to submit their best competitive proposals to establish the Idaho National Laboratory (INL). The research and development components of the Idaho National Engineering and Environmental Laboratory and Argonne National Laboratory-West will be combined in the new laboratory, which will begin operation Feb. 1, 2005.

INL will be a multi-program national laboratory conducting science and technology across a wide range of disciplines. Its core missions will be the development of advanced,

next-generation nuclear energy technologies, promoting nuclear technology education, and applying its technical skills to enhance national security. The new laboratory also will lead DOE's research and development effort in developing an advanced nuclear energy system that will produce both inexpensive electric power and large quantities of cost-effective hydrogen to support the development of a clean and efficient hydrogen economy in the United States.

A requirement for the INL contractor to maximize opportunities for small and regional businesses is included

in the RFP. The RFP also includes a 10-year base term with an option for an additional five years. This is to ensure the winning contractor will have time to implement its plans to build the INL into one of the world's best nuclear energy research institutions. Potential bidders are asked to include, as part of their overall proposals, plans to establish a joint laboratory/university center for advanced energy studies in Idaho that will also serve as a center of the laboratory.

The final INL RFP, No. DE-RP07-031D14517, is available at the solicitation website, <http://www.INL-RFP.gov>. Proposals are due July 26, 2004. ❖

NNSA pioneers approach to enterprise-wide spend analysis

When President Bush announced his September 2002 initiative to increase Government small business performance, Robert Braden, Senior Procurement Executive with the Department of Energy's National Nuclear Security Administration (NNSA), contemplated how NNSA could comply within the context of its "enterprise" style of management. The key to increasing NNSA small business performance was to identify more contracting opportunities. The dilemma was how to identify those opportunities within NNSA's vast contractor procurement systems and the newly created NNSA Service Center—the NNSA enterprise.

Braden remembered an article he had read about an innovative process called spend analysis. World-class commercial companies were implementing the new process, which quickly was being identified as a procurement "commercial best practice."

Spend analysis examines enterprise-wide procurement trends and

buying patterns—which suppliers you buy from, how much you buy, what commodities you buy. The data allows procurement organizations to leverage requirements and then focus those requirements into strategic purchasing agreements. This leads to a streamlined procurement process; eliminating traditional transaction-by-transaction procurement and replacing it with strategic sourcing; reducing product/service and administrative costs and cycle time; streamlining the supplier base; and cleansing procurement databases of obsolete, incomplete, and inaccurate data.

Braden determined that the process also could be used to enhance the visibility of NNSA small business spending, thereby identifying new small business opportunities. The strategic "spend analysis" proved very successful. The pilot was a total team effort of all NNSA contractors and the NNSA Service Center. The analysis, completed in June 2003,

produced over \$8 billion in contracts potentially suited for strategic purchasing agreements. Most importantly, the analysis identified \$140 million in potential small business opportunities.

Building on the initial success, NNSA has moved on to a second, more aggressive phase that will result in a permanent spend analysis process. This institutionalized process will extract disparate data about suppliers, commodities, spending trends, volumes, and prices from many contractors using a variety of software formats and then consolidate the data into a single database warehouse. The NNSA-wide spend analysis strategy ultimately is expected to reduce costs by 10-15 percent, reduce cycle time by 15-20 percent, streamline and enhance performance of the NNSA supplier base, provide accurate data support for decision-makers, and increase the NNSA overall small business performance by 3-5 percent. ❖

May 4 was Energy Efficiency and Renewable Energy Education Day at the Department of Energy's (DOE) Forrestal Building in Washington, D.C. The event, sponsored by DOE's Office of Energy Efficiency and Renewable Energy, featured the national launch of the Renewable Energy and Energy Efficiency on Wheels (RnE²EW) Project.

RnE²EW is an educational vehicle designed to bring renewable energy and energy efficiency education programs and information to consumers, teachers and students, special events, and community venues. It consists of a customized 23-foot bus—equipped with educational workstations, electronic media, and teacher resource materials—and a 10-foot trailer with energy efficiency, wind, solar, geothermal, biomass, hydrogen, and other renewable energy technologies and hands-on experiments.

RnE²EW is made possible by a partnership among DOE, its National Renewable Energy Laboratory, and BP America. Other partners include the Colorado Governor's Office of Energy Management and Conservation and the Connecticut Clean Energy Fund. ❖



Safeguards and security seminar focuses on improved communication

The newly formed Office of Security and Safety Performance Assurance (SSA) hosted a joint seminar for the Department of Energy (DOE) safeguards and security directors and members of the Nuclear Security Information Exchange, March 10-11, 2004. The purpose of the seminar was to enhance communication among the DOE policy organizations, program offices, and field offices and sites with the common goal of working together to meet the safeguards and security challenges facing the Department.

The seminar followed the establishment of SSA by Secretary of Energy Spencer Abraham in December 2003 to place added emphasis and focus on security. SSA manages the missions and functions of the Office of Security (SO) and the Office of Independent Oversight and Performance Assurance (OA).

Deputy Secretary of Energy Kyle McSlarrow and Under Secretary of Energy for Nuclear Security and Administration, National Nuclear Security Administration (NNSA) Linton Brooks

were the keynote speakers. Over 120 representatives of the DOE safeguards and security community attended the seminar.

Deputy Secretary McSlarrow reinforced the significance of security throughout the Department, noting that while we are adequately protecting our national assets, we face the challenges of protecting our facilities and national security assets against increasing threat levels. Earlier this year, Deputy Secretary McSlarrow identified security as a Department-wide management challenge for 2004.

NNSA Administrator Brooks reflected on the important role of every individual in ensuring the safety and security of DOE facilities, as well as the Department's overall contribution to ensuring national security. He emphasized that our success depends on our ability to work closely together, at the organizational level as well as the personal level, with all Department elements.

Seminar topics included streamlining security policy, implementing the

design basis threat, technology development and application, lessons learned from OA special reviews, SO field assistance, expanded testing of classified computer networks, training, and the draft DOE oversight policy. Discussion panel members, consisting of senior DOE safeguards and security managers, offered examples of successes and suggestions on how the Department can further improve ongoing security initiatives and how SSA can foster that improvement. With the feedback and participation of seminar participants, SSA is evaluating these suggestions for implementation. ❖

CORRECTION, CLARIFICATION

In the article "Kansas City Plant takes a step back in time," page 10, *DOE This Month*, April 2004, the name and series of the Pratt and Whitney aircraft engine is incorrect. The correct name is Pratt and Whitney Double Wasp Radial Aircraft Engine, and the Kansas City Plant shipped approximately 8,000 R-2800 Series D engines to the U.S. Navy.

In the article "New, cooler process produces 'pure' hydrogen," page 11, *DOE This Month*, March 2004, the carbon monoxide poisoning problem applies to proton exchange membrane fuel cells being developed for the transportation sector. Also, the process was "accidentally" discovered by Dr. Devinder Mahajan and his group at the Department of Energy's (DOE) Brookhaven National Laboratory (BNL) while focusing on catalytic carbon dioxide activation for conversion into liquid fuels. This research was funded by DOE's Office of Fossil Energy under the Carbon Sequestration Program in 2000. Work on the "pure" hydrogen process was completed with internal BNL funding. ❖

NEW Publications

Office of Inspector General (IG) reports: ***Los Alamos National Laboratory's Purchase Card Program Corrective Actions*** (DOE/IG-0644); ***Contractor Compliance with Deemed Export Controls*** (DOE/IG-0645); ***The National Nuclear Security Administration's Enhanced Surveillance Campaign*** (DOE/IG-0646); ***System Development Activities at Selected Management Contractors*** (DOE/IG-0647); ***Management Controls over Subcontract Administration by the National Renewable Energy Laboratory*** (OAS-M-0402). The reports are available from the U.S. Department of Energy, IG Reports Request Line, 202-586-2744, or at <http://www.ig.doe.gov>.

2003 Annual Report, Nuclear Safety Enforcement Program, Office of Price-Anderson Enforcement (DOE/EH-0679) issued by the Department of Energy's (DOE) Office of Environment, Safety and Health (EH). The report describes the activities and accomplishments of the DOE Price-Anderson Amendments Act Nuclear Safety Enforcement Program in 2003 and highlights planned program improvements for 2004. The report is available at <http://www.eh.doe.gov/enforce>. For more information, contact Stephen M. Sohinki, Director, Office of Price-Anderson Enforcement (EH-6), 301-903-0100. ❖

Education NOTES

The Department of Energy (DOE) and General Motors (GM) are cosponsoring the CHALLENGE X competition for engineering students across North America to explore advanced technologies that will reduce the environmental impact of vehicles while maintaining utility and performance. The three-year competition will acquaint students with leading-edge automotive propulsion, fuels, materials, and emissions-control technologies. Seventeen universities were selected through a competitive process to participate in the challenge. DOE's **Argonne National Laboratory** will provide competition management, staffing, team evaluation, and technical and logistical support. GM will supply each team with a compact SUV Chevrolet Equinox, \$10,000 in seed money, technical mentoring, and additional production parts. Additional funding, mentoring, product donations, and emissions expertise will be provided by other sponsors.



Sixteen high school juniors and seniors from the Alabama School of Science and Technology in Mobile recently spent a week at the Department of Energy's **Princeton Plasma Physics Laboratory** (PPPL) participating in an "Energy in the 21st Century" workshop at PPPL's Plasma Science Education Laboratory. The students designed and raced solar and hydrogen fuel cell powered model cars, studied the physics of classroom plasmas, measured the Paschen curve for a DC glow discharge, toured PPPL, and learned about the role of fusion in the future energy portfolio. The curriculum was designed and taught by PPPL Science Education Head Andrew Post-Zwicker and organized by PPPL Science Education Administrator James Morgan.



Department of Energy Headquarters hosted its Adopt-a-School partner Seneca Valley High School in

Germantown, Md., for Job Shadow Day, April 22, 2004. Eight students spent the day with staff volunteer mentors from the Office of Science (SC); Office of Management, Budget and Evaluation (ME); and Office of Environmental Management. The students spent time with staff in their work places and also engaged in special planned activities. Paul Bayer (SC) organized a streaming televideo conference with **Pacific Northwest National Laboratory** which conducted a robotics demonstration for the students. Leah Dever, SC, and Pat Clem, ME, led a discussion on women's issues in the work place. April 22 was also Earth Day, so the students and mentors joined in a guided nature walk along Germantown's Glenn Seaborg Trail led by SC biologist Clarence Hickey. The students and mentors also had lunch together in the Germantown Headquarters recently remodeled cafeteria. Everyone agreed that the Job Shadow Day was a success and mutual learning experience for students and mentors.

A new memorandum of understanding between the Department of Energy's **Lawrence Livermore National Laboratory** (LLNL) and the U.S. Naval Postgraduate School (NPS) in Monterey, Calif., establishes a research collaboration between the two institutions. The cooperative agreement will provide NPS students the opportunity to work with LLNL researchers on projects to enhance national security. LLNL will benefit from the program through the strong educational, military research and operational expertise at the NPS. The school will benefit from LLNL's strength in applied sciences with core capabilities in nuclear weapons stewardship, non-proliferation, advanced defense and homeland security technologies, and scientific and engineering expertise. The cooperative arrangement also formalizes an existing LLNL visiting faculty position at NPS. Craig F. Smith, a Ph.D. engineer from LLNL's Energy Technology Division, has been selected to fill the chair professor position. ❖



John Ankner (left), an instrument scientist in the Spallation Neutron Source (SNS) Experimental Facilities Division at the Department of Energy's Oak Ridge National Laboratory, demonstrates an example of the SNS instrumentation to a group of students at the SNS Open House on April 2, 2004. This year's open house theme "SNS: On Target!" emphasized the past year's rapidly progressing

construction on the project. Information was available on the facility's construction; environment, safety, and health performance; accelerator systems; and SNS science and instrumentation. About 430 people attended the SNS open house, and a local media tour of the project was also held. ❖

People IN ENERGY

Russell Jones, a Laboratory Fellow at the Department of Energy's Pacific Northwest National Laboratory, has been elected a Fellow of the National Association of Corrosion Engineers (NACE) International. He also will serve as an advisor to the technical and professional members of NACE International. Jones has more than 37 years of experience in the fields of stress corrosion cracking, high-temperature composites, fusion reactor materials, radiation effects on materials, and mechanical properties of materials.



Peter Goldman, Director of the Wind and Hydropower Technologies Program in the Department of Energy's Office of Energy Efficiency and Renewable Energy, has received an award from the American Wind Energy Association in recognition of his "strong, capable, and collaborative leadership of the federal Wind Program" and "exemplary leadership in the development of the wind power industry." The award was announced at the Global WINDPOWER 2004 Conference and Exhibition, held in Chicago, Ill., March 29-31, 2004.

Marilyn Brown, Director of the Energy Efficiency and Renewable Energy program at the Department of Energy's Oak Ridge National Laboratory, is the recipient of the 2004 James R. Anderson Medal of Applied Geography. Brown was recognized as a leader "in applying the concepts of geography's innovative diffusion theories to addressing clean energy technology transfer processes." The award, named after former chief geographer of the United States James Anderson, was presented at the 100th anniversary meeting of the Association of American Geographers.

William D. Magwood IV, Director of the Department of Energy's Office of Nuclear Energy, Science and Technology, has received the 2003 James N. Landis Medal from the American Society of Mechanical Engineers (ASME). The award, established in honor of a former ASME president, was presented to Magwood for his role in establishing the Generation IV Nuclear Energy Systems Initiative.

Engineer **Richard Boardman** of the Department of Energy's (DOE) Idaho National Engineering and Environmental Laboratory (INEEL), has received the 2004 Distinguished Scientist/Engineer Award from the Idaho Academy of Science. The award recognizes Boardman's achievements in researching, designing, and developing effective off-gas and air pollution treatment processes at INEEL and his efforts to resolve waste treatment and clean air issues.



The board of managers of Bechtel BWXT Idaho, management and operations contractor for the Department of Energy's Idaho National Engineering and Environmental Laboratory (INEEL), has appointed **Paul Kearns** as the new INEEL Director, a position he has held in an acting capacity since October 2003. Kearns joined INEEL in 1999 as Associate Laboratory Director of Environmental Technology and Engineering. In May 2001, he was named Vice President and Deputy Laboratory Director.

Scott Chambers, a Laboratory Fellow at the Department of Energy's Pacific Northwest National Laboratory, has been elected to receive the 2004 E.W. Mueller Award for outstanding research in surface science. Chambers

was recognized for advancing the science of molecular beam epitaxy and applying it to fundamental investigations of the structural, electronic, and magnetic properties of metal oxide films, surfaces, and interfaces. He will receive the honor at a special reception at the University of Wisconsin in August 2004.

Elbert Branscomb, Chief Scientist for the Department of Energy's (DOE) Genome Program and former Director of the Department's Joint Genome Institute, is the new Associate Director for Biology and Biotechnology Research at DOE's Lawrence Livermore National Laboratory. Branscomb will supervise approximately 325 employees and oversee a diverse portfolio of highly interdisciplinary research and technology programs in bioscience, biotechnology, and biomedicine. ❖



COMING Events

July

6-9 Fifth Annual National Small Business Conference, Philadelphia, Pa. Sponsored by the Department of Energy (DOE). The goal of the conference is to reach out to small businesses to assist them in contracting with DOE. Conference features include plenary sessions with prominent government, corporate and business leaders; a business exposition; and a matchmaking forum to schedule one-on-one meetings with DOE procurement representatives. For more information and to register, visit <http://www.smallbusiness-outreach.doe.gov>. ❖

Milestones

YEARS OF SERVICE

May 2004

Headquarters

Chief Information Officer - Rosita O. Parkes (30 years), Michael R. Robertson (30). **Economic Impact & Diversity** - Claudette Williams (25). **EIA** - Gregory P. Filas (35), Kathryn L. Hendershot (30), Carolyn O. Mack (30), Barbara T. Fichman (25). **Energy Efficiency & Renewable Energy** - Samuel J. Taylor (30). **Environment, Safety & Health** - Lettie J. Wormley (25). **Environmental Management** - Susan L. Hitchcock (30), James V. Antizzo (25).

FERC - Shu-Ting Lin (30), Shirley Lott-Jamieson (30), Marcia A. Lurensky (30), Marvin Rosenberg (30), Bobbie J. McCartney (25), Janice G. Nicholas (25). **Fossil Energy** - Walter J. Chilman (40), Fred M. Glaser (30), Dennis N. Smith (30). **General Counsel** - Jane P. Schlaifer (35). **Hearings & Appeals** - Janet N. Freimuth (25). **Management, Budget & Evaluation** - Roland T. Hill (40), Lavelle Adams (35), Ronald C. Ricks, Sr., (35), Ellsworth E. Howell, Jr. (25).

NNSA - Alan C. Smith (35), Garry W. Tittmore (35), Dollie T. Clayton (30), Linda A. Delong (30), George D. Pomeroy (30), William A. Schmitt (30), Mary C. Trail (30), Larry D. Tudor (30), Charles W. Burrows (25), Charles A. Cormier (25), Eleanor Melamed (25). **Office of the Secretary** - Darlene B. Prather (25). **Policy & International** - Lana Ekimoff (25). **Public Affairs** - Jeffrey L. Sherwood (25). **Science** - Antionette G. Joseph (40), Charles R. Finfgeld (30), Arthur M. Katz (30).

Field

Albany Research Center - Daniel J. Webster (30), Gregory A. Fortier (25). **Bonneville Power** - Darrell M. Eastman (35), Dennis D. Eaton (35), Melvin L. Grewell (35), Louis Y. Lee (35), Donald

R. Matheson (35), Dale V. Prill (35), Sam Adler (30), Paula J. Campbell (30), Robert E. Neal (30), David L. Saxon (30), Theodore M. Snodgrass (30), Richard L. Beaver (25), Kenneth D. Owen (25), Jack H. Prince (25), Gloria A. Viray (25). **Chicago** - Larry J. Vann (30). **Idaho** - William D. Jensen (35).

NETL - Patrice A. Leister (30), Robert J. Navadauskas (30), Joann C. Zysk (25). **NNSA Service Center** - Margaret P. Correa (30), Erwin E. Fragua (30), Linda E. Sanders (30), Stanley G. Davis (25). **Oak Ridge** - A. Elaine Mount (30), Charles A. Spoons (30), David B. Worrall (30), Catherine S. Marciante (25), Charles F. Wright (25). **Oakland** - Sandra R. Silva (30), Douglas L. Low (25). **Oakland/NNSA** - William R. Holman (30), Robert M. Alvord (25). **Pantex Site/NNSA** - Hunter B. Davidson (30). **Pittsburgh Naval Reactors/NNSA** - Santo C. Berasi (30).

Portsmouth/Paducah - Russell J. Vranicar (30). **Richland** - Karla J. Kimsey (25). **Savannah River** - Alice D. Mercer (30), Jack Hart (25), Patricia C. Jarnagin (25). **Southwestern Power** - David B. Kannady (30), Jimmy R. Hardin (25). **Strategic Petroleum Reserve** - John C. O'Brien (25). **Y-12 Site/NNSA** - Ronnie J. Catoe (35). **Western Area Power** - Terry W. Hopkins (35), David W. Benadom (30), John A. Decenso (30), James G. Depriest (30), David W. Gregory (30), Nadine C. Nafts (30), Terry D. Texley (30), Linda K. Briones (25), Brenda T. Bryant (25), Larry B. Hoyer (25), Joseph T. Luna (25), Vicki E. Rehder (25).

RETIREMENTS

March 2004

Headquarters

Management, Budget & Evaluation - Wanda M. Jones (28 years), Gerald E. Lohmar (19). **Science** - Ferdinand L. Schwartz (22).

Field

Bonneville Power - Robert J. Broillet (34), Dennis L. Ray (8), Diane D. Schmidt (13). **Chicago** - Ann C. Appleton (20), Elizabeth M. Lyon (23). **Oakland** - Ronnie F. Duvall (21).

April 2004

Headquarters

EIA - William D. Liggett (29), Henry S. Weigel (20). **Energy Assurance** - Denise F. Swink (34). **Energy Efficiency & Renewable Energy** - John V. Flynn (37). **Management, Budget & Evaluation** - Charles U. Butt (26), Kenneth G. Grossnickle (39), Xavier J. Harris (26), Judith A. Hockenbery (43), Carolyn H. Lawson (33), James H. Lee (25), Dave C. Melendez (31), Wardell Moore (37), Robert A. Nelson (26), Deborah K. Perrell (26), William M. Reynolds (36), Logan L. Watts (42), Joanne C. Whitman (29), Laura M. Wong (29). **NNSA** - John D. Nulton (35). **Nuclear Energy** - Arthur S. Mehner (23). **Science** - Judy A. Ranelis (38), Patricia B. Rice (32).

Field

Bonneville Power - Wrayanne Layne (30), Janis L. McLaren (32), Marg C. Nelson (30), Edward A. Peterson (38), Patrick W. Timm (34). **Chicago** - Heidi K. Ramirez (31). **Golden** - Stephen L. Sargent (27). **Idaho** - Dixie J. Burke (23), Jay C. Greenberg (31), Linda A. Hallum (31), Terry A. Patterson (15), Carl R. Robertson (35). **Ohio** - John C. Simak (33). **NNSA Service Center** - Richard Flenoury (21). **Schenectady Naval Reactors/NNSA** - Andrew R. Seepo (31), Ronald R. Uhrich (40). **Western Area Power** - James H. Charters (35), Alan P. Marshall (30), Theodore J. Miller (26), Kenyon R. Nelson (11). **Y-12 Site/NNSA** - William G. Watson (31). ❖

DOE observes Holocaust victims remembrance

The week of April 18-25, 2004, marked the annual Days of Remembrance of the Victims of the Holocaust. An exhibit in the Department of Energy (DOE) Headquarters Forrestal Building focused on this year's theme, "For Justice and Humanity," honoring those who dared to take a stand in the face of tyranny. DOE also was among 25 Federal agency cosponsors of an interagency remembrance program on May 5.

"The history of the Holocaust offers an opportunity to reflect on the moral responsibilities of individuals, societies, and governments, and to learn the tolerance needed to ensure that such atrocities never reoccur," Secretary of Energy Spencer Abraham said in a memorandum to all DOE employees. Secretary Abraham urged all DOE employees to rededicate themselves to overcoming intolerance and indifference.

The Holocaust was a state-sponsored, systematic persecution and annihilation of European Jews by Nazi Germany and its collaborators between 1933 and 1945. While Jews were the primary victims—six million were murdered—millions more suffered grievous oppression and death under Nazi tyranny. Pursuant to Public Law 96-388, Oct. 7, 1980, the United States Holocaust Memorial Council designated the Days of Remembrance as the week of April 18, 2004. The International Day of Remembrance known as Yom Hashoah was April 18.

May 2004

AROUND DOE

Fermilab receives awards for worker safety

The National Safety Council has recognized the Department of Energy's (DOE) Fermi National Accelerator Laboratory (Fermilab) with two safety awards—the Green Cross for Safety Excellence Achievement Award and the Recognition of Significant Improvement Award.

The Green Cross recognizes employers reporting injuries and illnesses involving days away from work at a rate less than or equal to 50 percent of the Bureau of Labor Statistics' rate for their Standard Industrial Classification Code. Fermilab's rate was .02 compared to .6 for other research and development laboratories. The Improvement Award acknowledges employers who reduce the number of injuries and illnesses involving days away from work and the number of fatalities by at least 20 percent. Fermilab reduced its number by 85 percent.

Labs to lead hydrogen 'Centers of Excellence'

On April 27, 2004, in Detroit, Mich., Secretary of Energy Spencer Abraham announced that over \$350 million was being awarded by the Department of Energy (DOE) for hydrogen research projects to support the Administration's hydrogen economy initiative. Selected through a merit-reviewed, competitive process, the projects involve 30 lead organizations and include over 100 partners. When private cost share is included, the total amount of awards, which still need to be negotiated, may be over \$575 million.

The projects include the formation of three "Centers of Excellence" led by DOE's Los Alamos/Pacific Northwest National Laboratories, National Renewable Energy Laboratory, and Sandia National Laboratories for exploratory research in hydrogen storage. Each center will include a DOE national laboratory lead and several university and industry partners. The centers will address the major technical barrier to on-board hydrogen storage—storing enough hydrogen to enable greater than 300 mile driving range without impacting cargo or passenger space. In addition, individual universities, research institutes, and small businesses will explore new materials for hydrogen storage.

Other research projects selected for funding are in three major areas: vehicle and infrastructure demonstration and validation, fuel cell research, and hydrogen education. ❖

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Washington, DC 20585**

Official Business