

Welcome to the May 2011 edition of the SRNS News.

This month, SRNS opened an office in the South Carolina Business Center in Barnwell, S.C. It's our company's first step in launching a small modular reactor (SMR)



A message from
Garry Flowers
SRNS President and CEO

cold test facility. The office was opened with the intent of attracting research and development programs from a number of SMR manufacturers. I look forward to working with the Southern Carolina Regional Development Alliance on this and other long-term economic development programs as we work to build private/public partnerships to help improve our economic landscape and provide greater opportunities for our communities.

Some of our employees put on a different hat (and apron) and served as waiters during the annual Celebrity Waiters Night, which benefits Children's Place in Aiken. See Page 2 to see how much we raised for this worthy cause.

Young people and education were also in the spotlight in May. We announced the winners of the SRNS Family Scholarships (see Page 5) and students from Macedonia Elementary School in Blackville, S.C., took part in the SRS Science and Technology Enrichment Program for some hands-on scientific field work (see Page 3).

I hope you enjoy this month's edition of the SRNS News and thank you for your continued interest in our company.



LEAP Team pulls for a good cause

Please see Page 6 for the story.

SRNS news

SAVANNAH RIVER NUCLEAR SOLUTIONS



Deputy Secretary of Energy Daniel Poneman visits the Waste Solidification Building and talks to project personnel.

DOE Deputy Secretary visits SRS

Deputy Secretary of Energy Daniel Poneman recently visited SRS with Ines Triay, Department of Energy (DOE) Assistant Secretary for Environmental Management (EM), and Dave Huizenga, National Nuclear Security Administration (NNSA) Principal Deputy Administrator.

The group was greeted by DOE Savannah River Manager Dave Moody and NNSA-SRS Office Manager Doug Dearolph when they arrived at the Site. Their first stop was at the K Area Complex for a Pit Disassembly and Conversion (PDC) project tour and discussions. Next, they arrived in F Area for a Mixed Oxide Fuel Fabrication Facility (MFFF) project update and tour.

The group then stopped at the Waste Solidification Building (WSB), where Poneman commended the WSB Team for their hard work to complete this project on time. The group also observed first hand the testing program for MFFF equipment in the Process Assembly Facility. The final stop on Monday was at H Canyon Chemical Separation Facility for an update on its modified operations and potential new missions and various capabilities to address the nation's nuclear challenges.

More on Page 5

Woodard selected to chair SRNL External Advisory Board

Dr. Joan Woodard, former Executive Vice President of Sandia National Laboratories, will chair the SRNL External Advisory Board (SRNL/EAB). The SRNL/EAB will provide high-level assessment and strategic guidance regarding laboratory operations, scientific and technical capabilities, program direction, and partnerships with government and private sector entities.



Dr. Joan Woodard

"Joan is one of our nation's foremost leaders in national security issues," said Dr. Terry Michalske, SRNL Laboratory Director. "Her extensive background with the DOE national laboratories, including areas of energy and environmental management, make her the ideal person to lead this important function for our laboratory. We are fortunate to have her in this important role for the laboratory."

The full SRNL/EAB membership is being finalized, and a first meeting is scheduled for early September.

SRNS opens office in Barnwell's SC Business Center

SRNS is opening an office in the South Carolina Business Center, located at 54 Irving Street in Barnwell, S.C. This is the company's first step in launching a small modular reactor (SMR) cold test facility, intended to be a non-nuclear test bed for components of SMRs. The office was opened with the intent of attracting research and development programs from a number of SMR manufacturers, including GE-Hitachi and Hyperion Power, the two companies with which SRNS recently signed Memoranda of Understanding regarding SMR technology development.

SRNS sees South Carolina as a national hub for cutting-edge nuclear technology development, with the potential to create hundreds of engineering and construction jobs over the next few years. The SRNS vision is to partner with industry and others in the region to give U.S.-based manufacturers a competitive advantage in the rapidly growing global market for SMRs.



Check, please Rob Trimble of SRNS serves dessert at the annual Celebrity Waiter event, held at Houndslake Country Club in Aiken. SRNS provided 15 "waiters" and raised over \$25,000 for Children's Place. Desserts for the event were created by Aiken High School Culinary Arts students.

SRNL wins national collaborative research award

A decade-long collaboration among several U.S. Department of Energy National Laboratories, DOE contractors and a university is leading to a significant reduction in the stored high-level radioactive waste requiring treatment at SRS, and earning kudos for its participants.

SRNL served on the team responsible for "Development and Implementation of High-Level Salt Waste Processing Technology at SRS," the project selected to receive the Council for Chemical Research's 2011 Collaboration Research Award.



Randolph Howell, (from left) Terry Chavis, Jonathan Murdock, Autumn Davis and China Kinard, sixth graders from Macedonia Elementary School in Blackville, S.C., recently visited SRS as part of the SRNS "Science and Technology Enrichment Program," which offers hands-on science activities for area students.

Kids "STEP" into the Environmental Park at SRS

The girls giggle, while the boys say "cool" as the small green frog jumps from a menagerie of tiny creatures and bits of water plants scooped from the bottom of an SRS pond. Using a net suspended from a long pole to capture aquatic wildlife is just one activity that fascinates students each year from area elementary, middle and high schools that participate in the SRNS Science and Technology Enrichment Program (STEP).

This program is just one of many offered by SRNS Education Outreach. STEP offers hands-on science activities in the field for local school students. One activity allows students to study fresh water ecology at Old Fire Pond Dam by investigating aquatic and terrestrial organisms

in the environment, while another encourages the children to study soil samples to determine the best use of land. During the 2010-2011 school year, STEP reached more than 1,000 students and teachers.

Macedonia Elementary teacher Barbara Glover became interested in the program after attending a workshop and tour for educators at SRS. "This field trip allows our sixth grade students to see how important it is to be aware of the relationships between plants and animals."

STEP is a cooperative initiative among Department of Energy-Savannah River, SRNS, University of South Carolina Aiken Ruth Patrick Science Education Center, National Audubon Society and the U.S. Forest Service-Savannah River.

Recovery Act begins box remediation operations at F Canyon

The F Canyon box remediation program, an American Recovery and Reinvestment Act project at SRS, has come online to process legacy transuranic (TRU) waste for off-site shipment and permanent disposal at the Waste Isolation Pilot Plant (WIPP), a geological repository in New Mexico. The \$40-million facility will process approximately 330 boxes containing TRU waste with a radiological risk higher than seen in the rest of the Site's original 5,000-cubic-meter inventory.

"The F Canyon box program provides a different level of remediation that will allow SRS to make much of our TRU waste with higher radiological activity eligible to leave the Site," said Dr. David Moody, manager, U.S. Department of Energy-Savannah River. "This program is key to the SRS accelerated TRU program."

F Canyon box remediation joins several other Recovery Act programs that are removing noncompliant items and repacking waste before it is sent to WIPP in 55-gallon drums or compliant boxes. The F Canyon drum remediation program, for example, removes prohibited items that x-ray technology has identified – typically aerosol cans, liquids, and sealed containers – and repackages the waste in new 55-gallon drums.

"Dispositioning legacy TRU waste is one of the top cleanup priorities at SRS. The Recovery Act-funded activities at F Canyon are helping SRS accelerate TRU waste remediation to successfully reach a goal of shipping 5,000 cubic meters of legacy TRU waste to WIPP before December 31, 2012," said Paul Hunt, SRNS Vice President, Recovery Act portfolio.

An estimated \$55 million from the Recovery Act will fund TRU waste box remediation at F Canyon.



Columbia County Chamber of Commerce Post Legislative Breakfast

Georgia Governor Nathan Deal greets SRNS Executive Vice President Fred Doshe at the Columbia County Chamber of Commerce Post Legislative Breakfast on May 5. Gov. Deal was the keynote speaker to a sold-out crowd at the breakfast. SRNS was the presenting sponsor of the event and SRNL Director Dr. Terry Michalske gave remarks about the Laboratory and its mission. Members of the Columbia County State Delegation members who also attended were Georgia State Senator Bill Jackson, Representatives Ben Harbin, Lee Anderson and Barbara Sims.



Patriot flag visits SRS SRS was the host in May to the Patriot Flag, which honors and memorializes the 9/11 fallen. The flag began its U.S. tour in San Diego on Sept. 11, 2010, and will end its tour in New York, Washington, DC and Shanksville, Pa., on Sept. 11, 2011, to commemorate the 10-year anniversary of 9/11. The Patriot Flag is a grassroots effort led by local citizens and public safety personnel.

DOE Deputy Secretary visits SRS

► *Continued from Page 1*

The next day, the tour began at B Area for a DOE All Hands Meeting, after which they continued to the Salt Waste Processing Facility for a tour and briefing. They finished their Site visit at SRNL with a classified briefing on SRNL's national security and intelligence research and support.

During the visit, the Deputy Secretary also met with Garry Flowers, SRNS President and CEO, and Dr. Terry Michalske, SRNL Director.

In the All Hands Meeting, topics were discussed that applied to the past and future work at each of the areas the group visited. Although some of the recent budget challenges were mentioned, the main discussions concerned the Site's future and how it will continue to strive forward with its current commitments and new endeavors.

The recent remediation accomplishments on Site were noted, as well as how the knowledge gained will further advance Site personnel in their abilities and further position SRS as a clean-up expert. Dr. Moody said, "As we move forward cleaning up this Site, we are building on the scientific and technical expertise that makes SRS unique and respected internationally."



Steve Howell, (right) SRNS Nuclear Materials Disposition Projects manager, briefs Deputy Secretary of Energy Daniel Poneman; Ines Triay, DOE's Assistant Secretary for Environmental Management; and others on operations at H Canyon.

Energy growth at SRS was another central topic. Site officials have been looking to nuclear energy possibilities in their efforts to grow SRS, and they are working to make it a reality. Energy discussions in the meeting focused on the nuclear market as a global market and with the President's and the country's interest in renewable energy, a growing market. As the managing and operating contractor of the Site, SRNS has adopted this goal and encouraged officials like Poneman to visit SRS to learn more about its potential.

SRNS announces Family Scholarship recipients

SRNS has announced the winners of the SRNS Family Scholarships for 2011, based on their general ability, leadership, scholastic assessment and achievement.

These winners are sons and daughters of SRNS employees.

This program rewards graduating high school students on the basis of general ability, leadership, scholastic assessment and achievement.

A scholarship award ceremony was held in May to recognize the winning students and their families.

Matthew Bickford, South Aiken High School, son of Wade and Linnea Bickford, SRNL

Kelly Cercy, North Augusta High School, daughter of Michael Cercy, Engineering

Gregory Edison, North Augusta High School, son of Thomas Edison, Engineering

Katherine George, Lakeside High School, daughter of Thomas George, Engineering

Graham Gordon, South Aiken High School, son of John Gordon, SRNL

Grace Halverson, Westminster Schools of Augusta, daughter of Justin and Nancy Halverson, SRNL

Isaac Halverson, Westminster Schools of Augusta, son of Justin and Nancy Halverson, SRNL

Joshua Huffines, South Aiken High School, son of Ronda Huffines, Engineering

Casey Izard, Aiken High School, son of Rich Izard, NNSA Programs

Steven Mets, South Aiken High School, son of Michael Mets, Chief Information Officer

Benjamin Musall, Lakeside High School, son of John Musall, Engineering

Noland Seigler, Strom Thurmond High School, son of Steven Seigler, ESH&QA

Michael Stoner, South Aiken High School, son of Kevin Stoner, NNSA Programs

Kelsey Taylor, Midland Valley High School, daughter of Timothy Taylor, Engineering

Wendy Xiao, Lakeside High School, daughter of Steve Xiao, SRNL

SAVANNAH RIVER NUCLEAR SOLUTIONS



LEADERS EMERGING AMONG PROFESSIONALS



LEAP wins Columbia County Corporate Challenge

Members of the SRNS LEAP organization won the Columbia County Chamber of Commerce's first Corporate Challenge at Adventure Crossing. Held on Friday, May 13, in Martinez, Ga., the event featured eight CSRA teams vying for the top place by obtaining points during a series of challenges including running relays, negotiating obstacle courses, playing laser tag, and racing go-carts. SRNS LEAP team members included (from left) David McFall, Michael Cook, Connie Yung and Alex Ruderman.



The members of the SRNS LEAP Team took first place in their category, and donated \$500 in addition to the \$375 entry fee during the annual Augusta Ronald McDonald House "Plane Pull" fundraiser. The FedEx Boeing 757 weighed 180,000 pounds and had to be pulled by rope 12 feet in the least amount of time.

LEAP Team pulls more than its weight for Ronald McDonald House

The Boeing 757 used at the third annual "Plane Pull" fund-raiser for the Augusta Ronald McDonald House weighed 180,000 pounds. That's an average of 9,000 pounds each for the 20 team members tugging on the long, thick rope attached to the 757. Their goal: to move the jet 12 feet in the least amount of time.

The SRNS "Leaders Emerging Among Professionals" (LEAP) Team took first place in their category, besting the Young Professionals of Aiken and Young Professionals of Augusta by pulling the jet 12 feet in 7.59 seconds.

The event generated more than \$36,000 for the Augusta Ronald McDonald House, with over \$850 raised by the SRNS LEAP Team.

"It was really awesome to win. We really wanted to beat the other teams," said Connie Young, team lead, SRNS LEAP Team. "But, I think we won because we had the biggest heart."

Ronald McDonald House Charities of Augusta, Ga., creates, finds and supports programs that directly improve the health and well-being of children. The Ronald McDonald House is a "home-away-from-home" for families of seriously and critically ill or injured children receiving medical treatment at nearby hospitals.