

May 2012

SAVANNAH RIVER NUCLEAR SOLUTIONS

SRNS Today

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Dwayne Wilson
SRNS President and CEO



Welcome to the May 2012 edition of “SRNS Today.”

This month was filled with new horizons at SRNS and in the community.

First, please join me in congratulating Clif Webb on his new assignment as Fluor Corporation’s Vice President of Corporate Affairs. We wish him well in his new endeavors, and we will miss him. Please see Page 4 for more details on Clif’s new role with our parent company.

In the community, SRNS is helping both students and teachers look toward new horizons. The SRNS Family Scholarships were recently awarded to a group of employees’ children, who will use the money to help fund their college educations (please see Page 4). I’m also pleased to announce that the Innovative Teaching Mini Grant program will receive a significant boost in funding next year, raising the amount to \$75,000. The grants will allow area educators to explore new ways of academically engaging their students.

Please see the story on Page 5. Finally, SRNS recently helped sponsor the S.C. Academy of Science at the University of South Carolina - Aiken, where students from across the state presented their own work and took inspiration for further scientific pursuits from a variety of speakers, including Dr. Terry Michalske, SRNS Executive Vice President and Savannah River National Laboratory Director. For more details, please see Page 8.

May also brought the end to a stalwart facility here at the Savannah River Site. The coal-fired D Area Powerhouse, the first operating facility at SRS, was recently shut down, and we paused this month to honor the D Area employees. Now, a new biomass cogeneration facility is providing clean energy for Site use. Please see the story on Pages 6 and 7.

I hope you enjoy this edition of “SRNS Today.” As always, thank you for your interest in Savannah River Nuclear Solutions.



Savannah River Nuclear Solutions, LLC, is a Fluor partnership with Newport News Nuclear and Honeywell. Since August 2008, SRNS has been the management and operating contractor for the Savannah River Site, a Department of Energy-owned site near Aiken, South Carolina, including the Savannah River National Laboratory. The SRNS corporate and community offices are located in the renovated 1912 “Old Post Office” building in Aiken, S.C.

The primary initiatives of SRNS are national security, clean energy and environmental stewardship.

SRNS Today is published monthly by SRNS Corporate Communications to inform our stakeholders of the company’s operational and community-related activities. If you have questions or comments, please contact us at 803.952.9584.

For additional information about SRNS, please visit our website at savannahrivernuclearsolutions.com.



SRNL employees gather in front of the lab’s main building to celebrate their achievement.

10 million safe hours

It’s no accident for SRNL

On May 1, SRNL’s employees gathered to celebrate one of the Laboratory’s most distinguishing features: its safety culture as illustrated by its exceptional safety record.

Dr. Dave Moody, DOE-SR Manager, pointed out a few numbers for the assembled crowd...eight, one, 10 million.

For the eighth year in a row – every year since becoming a National Laboratory – SRNL’s safety record is the best among all of DOE’s National Labs.

In January, SRNL surpassed 10 million hours without an injury resulting in days away from work. Since that milestone, the Laboratory has racked up more than a half million additional safe hours. The last lost-time injury was six years ago.

Also since the milestone, SRNL has been recognized by the National Safety Council as one of 37 companies nationwide to receive the NSC’s Safety Leadership Award, marking five or more consecutive years without an occupational injury or illness resulting in lost work days.

SRNS Executive Vice President and SRNL Director Dr. Terry Michalske pointed out the role of safety in SRNL’s ability to attract and perform work. “There’s one element that enables everything we do,” he said. “It’s what we’re here to celebrate today, and that’s safety.”



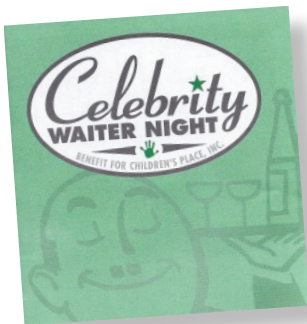
DOE-SR Manager Dr. David Moody (from left); SRNS Executive Vice President and SRNL Director Dr. Terry Michalske; and Scott Cannon, NNSA-SRSO Deputy Manager, address the crowd during the celebration.



SRNL employees were treated to a barbecue lunch.

Clif Webb selected as Fluor Corporation’s Vice President of Corporate Affairs

In the community



SRNS raises more than \$23,000 during Celebrity Waiter event

Members of SRNS Senior Staff and LEAP (Leaders Emerging Among Professionals) volunteers recently lugged serving trays, poured beverages and hustled food entrees during Celebrity Waiter Night at Houndslake Country Club, all for the benefit of Aiken’s Children’s Place Inc. SRNS hosted 208 guests and raised \$23,816.88, which included \$10,000 in corporate sponsorship. The SRNS team was a part of more than 150 celebrity waiters representing stores, businesses and the Aiken community. All together, the volunteers served 1,052 reservations throughout the night.

Children’s Place provides daily therapeutic child-care to more than 110 needy children in Aiken County, including services such as social skills building, parenting classes, coaching and support groups. The organization also offers community-wide training to stop the sexual abuse of children.

R. Clifton Webb, SRNS Vice President of Corporate Communications, has been named as Fluor Corporation’s Vice President for Corporate Affairs, effective June 1. Webb will succeed Lee C. Tashjian, who is retiring June 29.

“We have every expectation that Clif will build upon Lee’s legacy and contribute significantly to the further development of the company’s reputation as we seek to grow our businesses in a challenging global environment,” said David Seaton, Fluor Chairman and CEO.

In joining Fluor, Webb brings more than 35 years of experience in government and public affairs roles. Prior to joining SRNS, he held senior-level roles in DuPont where he most recently served as Vice President, Government Affairs. Webb also served DuPont as Director of Public Affairs, and Public Affairs Manager of the company’s Mid-Atlantic region.

Webb began his career with DOE-Savannah River, where he later became Deputy Director of External Affairs. Webb is a recipient of DuPont’s Corporate Marketing Excellence Award and the U.S. Department of Energy’s Silver Medal for Meritorious Service. He is Six Sigma certified.



Clif Webb

SRNS names winners of 2012 Family Scholarships

SRNS has announced the winners of the SRNS Family Scholarships for 2012, based on their ability, leadership, scholastic assessment and achievement. These winners are sons and daughters of SRNS employees. A scholarship award ceremony will be held in May to recognize the winning students and their families.

- Haley Barinowski, Westminster Schools of Augusta, daughter of Glenn Barinowski, NNSA Operations/Programs
- James Brumbaugh, Wardlaw Academy, son of Barbara Brumbaugh, ESS&H
- John Diprete, Greenbrier High School, son of David and Cecelia Diprete, SRNL
- Mark Griffith, North Augusta High School, son of James Griffith, ESS&H
- Jennifer Grimm, North Augusta High School, daughter of Freddie Grimm, SRNL
- William Harris, North Augusta High School, son of William Harris, Engineering
- Stephen Lint, Aquinas High School, son of John Lint, Engineering
- Rachel Martini, Greenbrier High School, daughter of Robert Martini, Engineering
- Austin Pendergist, James Island Charter High School, son of Dennis Pendergist, SRNL
- Matthew Ross, Aquinas High School, son of Jeffrey Ross, Engineering
- Rebecca Rudisill, North Augusta High School, daughter of Tracy Rudisill, SRNL
- Rachel Ward, North Augusta High School, daughter of Rebecca Ward, Workforce Services
- David Westergreen, Augusta Christian High School, son of Jeffery Westergreen, NNSA Operations/Programs
- Vincent Winkler, South Aiken High School, son of Jimmy Winkler, EM Operations
- Catherine Zecha, Westminster Schools of Augusta, daughter of Donald Zecha, NNSA Operations/Programs

Mini Grants program increasing awards to \$75,000 for 2013

Local teachers were honored during April as winners of the SRNS “Innovative Teaching Mini Grants Program.”

Awards in the amounts of \$500, \$750 and \$1,000 were presented to 110 Central Savannah River Area (CSRA) during a reception held in Aiken, S.C. The Innovative Teaching Mini Grants Program recognizes and supports innovative teaching methods by funding projects that enhance elementary and middle school science, mathematics and technology programs directly impacting students in the classroom.

During the awards ceremony, SRNS President and CEO Dwayne Wilson announced that the SRNS Educational Outreach Program will be increasing the amount awarded to area teachers each year by \$25,000, for a total of \$75,000 in Mini Grants. The grants are provided through corporate funding made available by the parent companies of SRNS—Fluor, Newport News Nuclear, and Honeywell.

A selection committee of SRS employees reviewed 203 grant proposals submitted this year and selected 85 projects to collectively receive a total of \$50,000 in funding.

“We are proud to reward educators who exhibit a strong passion for helping students better understand math, science and technology through innovative teaching methods,” said Gladys Moore, Program Coordinator, SRNS Mini Grants Program.



SRNS President and CEO Dwayne Wilson presents a check for \$1000 to Leavelle McCampbell Middle School teachers Melissa Steiner and Paula Long for their Mini Grants project, Science and Technology Behind the Red Cross.

“We are proud to reward educators who exhibit a strong passion for helping students better understand math, science and technology through innovative teaching methods.”

Gladys Moore
Program Coordinator
SRNS Mini Grants Program



SRNS President and CEO Dwayne Wilson addresses the honorees at the recent Mini Grants reception.

In the community



Columbia County Chamber Post-Legislative Breakfast

SRNS Senior Vice President of Corporate Services Jim Hanna (left) speaks with Georgia’s Lt. Governor Casey Cagle at the SRNS-sponsored Columbia County Chamber of Commerce’s Post Legislative Breakfast. Several members of the Columbia County State Delegation also attended the breakfast and presented their thoughts regarding the 2012 legislative session.



Robert Dicks enjoyed the D Area ceremonies.



Dustin Cain: a third-generation Powerhouse employee.

A

As SRNS embraces new, clean and highly efficient power generation technology, the massive 1950s era powerhouse in D Area has been shut down after decades of service at SRS.

At one time, this coal-powered facility was capable of generating 75 million watts of power, enough electricity to support the entire city of Aiken, S.C.

However, those days have passed and the 280,000 square-foot, five story building is being prepared for deactivation.

"Recent startup of three new wood-chip burning (biomass) steam plants at SRS means we no longer need this facility, but I humbly thank the mechanics and operators whose skill, dedication, and creativity kept this facility operating for nearly 60 years," said Karen Guevara, Assistant Manager for Infrastructure and Environmental Stewardship, DOE-Savannah River.

In the late 1950s, nine powerhouses and steam plants were operating across the 310-square mile nuclear reservation. All were small in size compared to the mammoth D Area facility whose four giant boilers required the withdrawal, and later return, of approximately 35-45 million gallons of water each day from the nearby Savannah River.

The steam produced within D Area was used throughout the Site for a variety of industrial- and process-related needs. At its peak, three

of the facility's four boiler units, each standing over 100 feet in height, individually produced about 350,000 pounds of steam per hour.

According to Dwayne Wilson, SRNS President & CEO, the financial and environmental benefits gained with the shutdown of the D-Area Powerhouse include the elimination of approximately 160,000 tons of coal purchased each year and the annual reduction of 100,000 tons of carbon dioxide emissions.

"I can remember being hired on at the plant site back in the 1980s as a coal handler in D Area," said Wayne Gleaton, SRNS Utility & Services Operations Manager. "First thing I said was, 'I didn't know SRS had a coal mine.' My supervisor laughed and said, 'We don't. You won't be digging coal. You'll be unloading coal from railroad cars.'"

D Area was operated for 59 years by three generations of largely local employees, which supplied reliable power and steam to SRS facilities with almost zero outages.

"Through Enterprise SRS, SRNS employees are committed to creating safe, innovative, effective solutions for SRS, the nation, and the world," said Wilson. "We offer knowledge and expertise to make the future of our site and country secure, energy independent and environmentally responsible. The safe deactivation of this once vital support facility is another step in that direction."

Celebration marks
the end of an era as the...

D Area Powerhouse powers down



D Area Powerhouse meeting in the 1950s



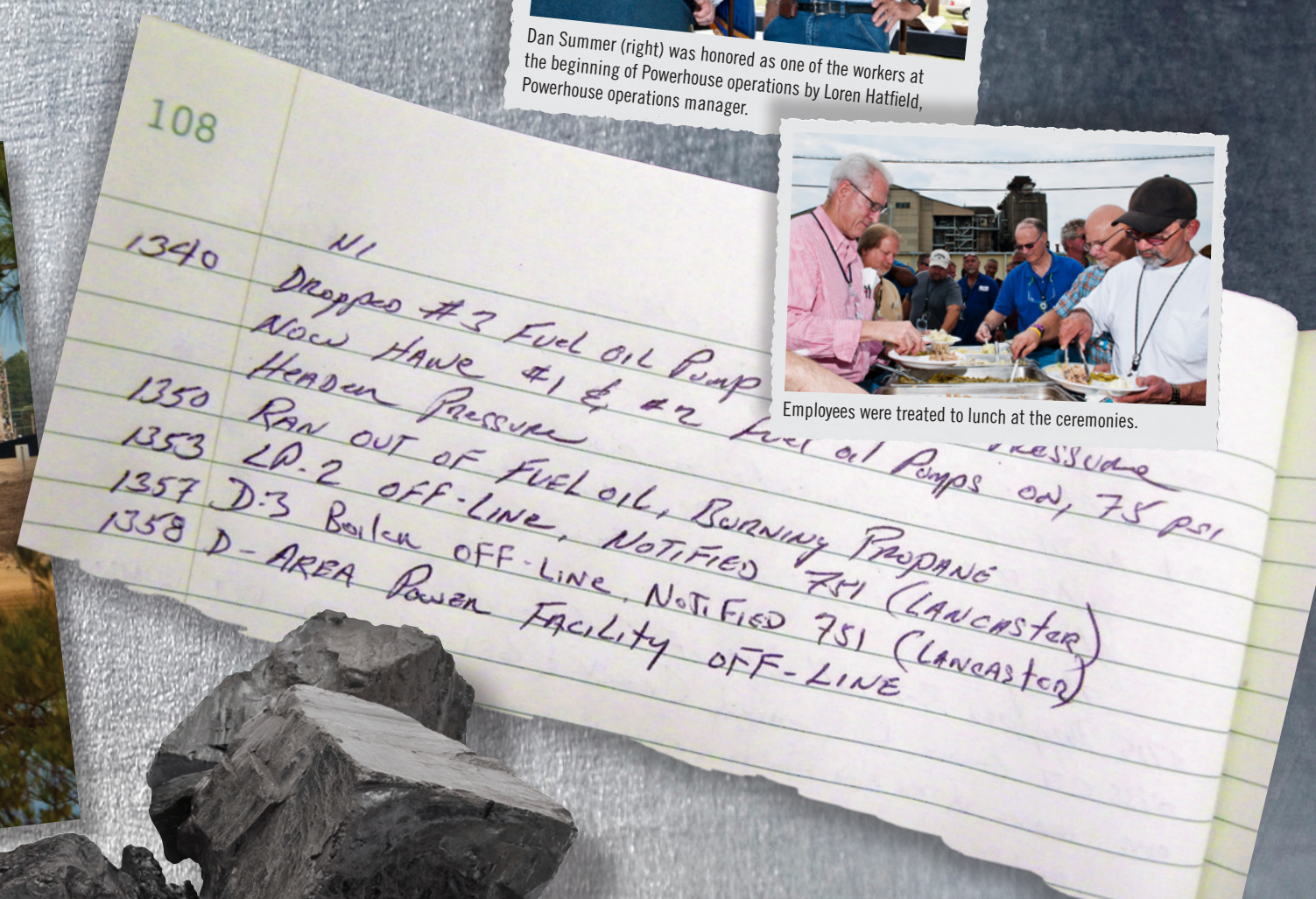
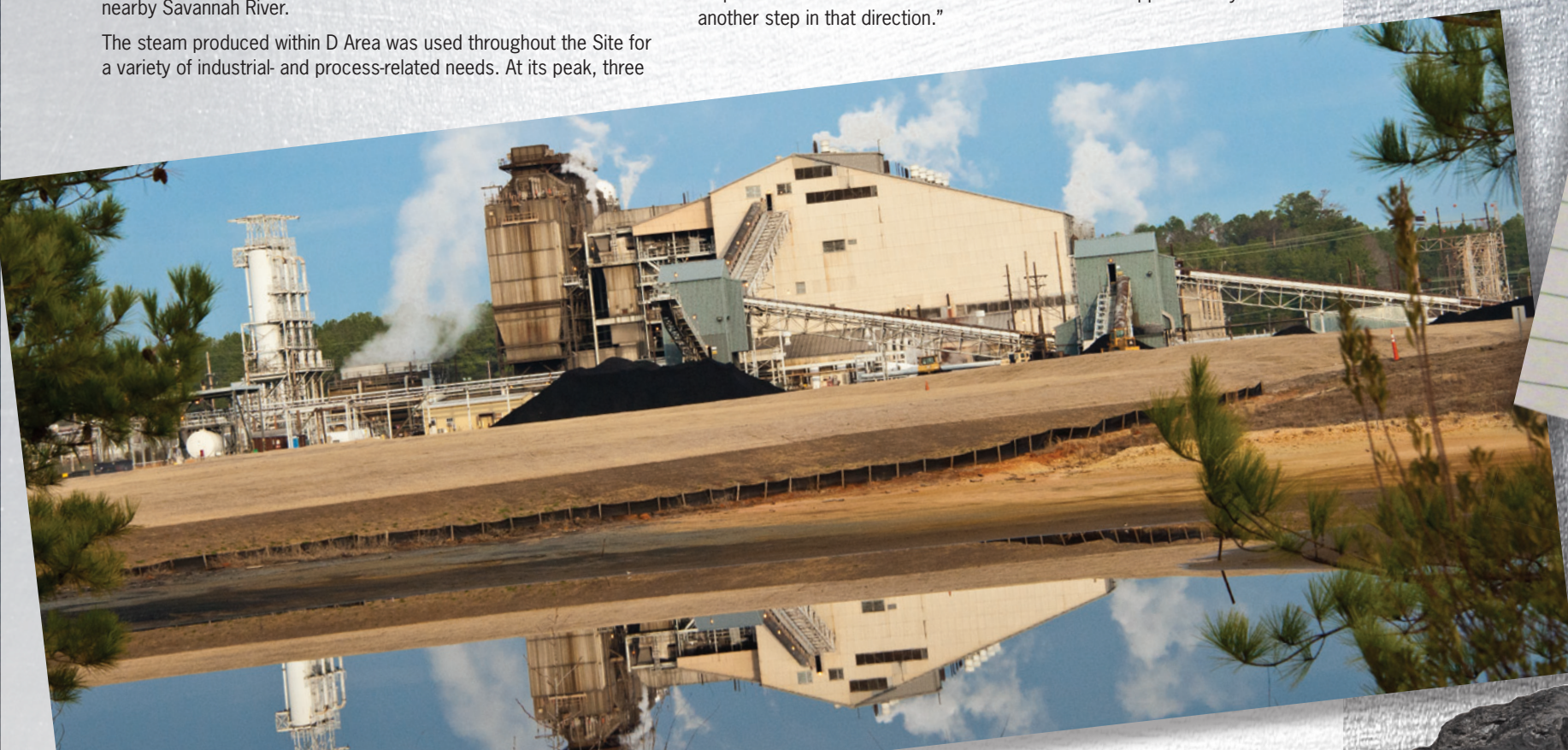
Dwayne Wilson (right), SRNS President and CEO, talks with Rick Taylor, Conduct of Operations advisor for the Powerhouse.



Dan Summer (right) was honored as one of the workers at the beginning of Powerhouse operations by Loren Hatfield, Powerhouse operations manager.



Employees were treated to lunch at the ceremonies.



SRNS offers a glimpse into the future at S.C. Academy of Science meeting



Cassy Robinson of SRNL shows attendees the Wildfire software, which enables homeowners to assess their risk from wildfires.



George King shows students around the interior of SRNL's Tracking Atmospheric Contaminants vehicle.



Dr. Terry Michalske addresses the plenary session.

A recent sunny Saturday provided a glimpse of the future, as hundreds of students, along with their instructors, mentors and supporters, gathered to share the results of their research and their fascination with science.

SRNS was a major sponsor of the 2012 combined South Carolina Academy of Science (SCAS)/South Carolina Junior Academy of Science Annual Meeting, held jointly with the South Carolina Branch of the American Society for Microbiology at the University of South Carolina – Aiken. High school, undergraduate and graduate students from around the state gave posters and presentations on their own work, and took inspiration for further scientific pursuits from a variety of speakers.

“Energy is one area that South Carolina can play an increasingly important role by educating and training a highly skilled work force that can help develop that technology.”

Dr. Robin Brigmon
President-elect
S.C. Academy of Science

SRNS Executive Vice President and SRNL Director Dr. Terry Michalske was one of the keynote speakers, focusing his remarks on the nature of innovation. He highlighted SRNL breakthroughs such as hollow glass microspheres, tracking and locating technology and groundwater cleanup technologies as examples of SRNL research with the potential for a global impact.

Michalske praised the attendees for being part of the South Carolina scientific community, and challenged them to get more deeply involved beyond their current level. “Know the problems, and get more deeply immersed in them. Look for the intersection of academic knowledge and existing need,” he said. “That’s where science and discovery and innovation take place. That’s where you have your own opportunity to build your career, and to change people’s lives.”

SRNL’s Dr. Robin Brigmon, president-elect of SCAS, organized the two-day meeting. Special sessions with presentations by several SRNL researchers showed attendees examples of how SRNL puts science to work to address important issues in clean energy and environmental stewardship. In addition, attendees had the opportunity to learn more about other SRNL endeavors, including the Lab’s work in national security.

In welcoming the participants, Dr. Brigmon said, “There is a critical need for the nation to develop a skilled work force with not only great scientific and engineering training but the ability to innovate and develop new technologies. ... Energy is one area that South Carolina can play an increasingly important role by educating and training a highly skilled work force that can help develop that technology. We look to you, the students and leaders of tomorrow, to help partner and create that future by making a difference.”

More than \$20,000 in scholarships was presented to students at the awards ceremony. Over 50 sponsors, including the U.S. Air Force, donated the scholarships.

SRNL experts test agencies’ skills at radiological detection and control

National Guard and police personnel with radiation detectors swarmed the campus of Aiken Technical College and SRS recently, but the crowd of observers was not alarmed. In fact, a group of Aiken Tech students vied for the opportunity to take part.

It was all part of an exercise conducted by SRNL on behalf of the Department of Homeland Security’s Domestic Nuclear Detection Office (DNDO). The goal was to challenge state and local agencies’ abilities to protect the public by detecting radioactive materials and responding appropriately in a variety of controlled, but realistic, scenarios. Civil Support Teams from the South Carolina National Guard, North Carolina National Guard, and Georgia National Guard, and a team from the Philadelphia Police Department Counter-Terror Operations took part in the exercise.

“Because of our background, we provide a lot of training, consultation, and other support for law enforcement and homeland security agencies related to radioactive materials,” said Jeff Newman of SRNL’s National Security Directorate, the program lead for the exercise. “In this exercise, we were challenging them to actually perform in the kinds of situations they could encounter in real life. We are proud to play a part in providing them an exercise that sharpens their radiological detection skills.”

SRNL personnel devised exercise scenarios that required the participants to respond to a suspicious package in a mail room, pre-screen the venue for a political rally, screen ticket-holders coming to a concert, and respond to a suspicious abandoned vehicle.

“We have an existing relationship with Savannah River in exercise development, so we used that resource to develop the pilot exercises,” said Tim Smith, DNDO project manager. “A special bonus was that Savannah River partners with Aiken Technical College, which has worked out really great.”

Aiken Technical College was host for the first day of the two-day exercise, and on the second day, activities moved to SRS, which has provided locations for a number of different training events and exercises conducted for the various agencies the Laboratory supports.

The exercise, which used sealed radioactive sources, was conducted under the supervision of personnel from SRS Radiological Protection Department and SRNL trained in the safe handling and control of radiological materials. Only these trained personnel were permitted to move or handle the radiological sources; the exercise participants detected, identified, and controlled the areas around the sources, but did not handle them.

Photos: (left) A Philadelphia Police Department team member (left) examines a storage facility, as part of a timed test. (Right) Team members screen “concert-goers” at Aiken Technical College, as SRNL evaluators observe.



SRNL’s Narendra Gupta elected Fellow of ASME

Narendra K. Gupta, a principal engineer with the Savannah River National Laboratory’s Computational Sciences Department, was elected as a Fellow of ASME. Founded in



Narendra Gupta

1880 as the American Society of Mechanical Engineers, ASME is a professional organization that enables collaboration, knowledge sharing and skill development across all engineering disciplines. The grade of Fellow recognizes outstanding engineering achievement; the distinction has only been granted to approximately 3 percent of ASME’s 102,000 members.

Gupta is a Registered Professional Engineer with 37 years of design and analysis experience. He first came to work at SRS in 1989 and has since received one President’s Award and three Laboratory Director’s Awards for his work.

Within ASME, he is an active member of the Pressure Vessel and Piping (PVP) Division, chairing two subcommittees. He has published numerous papers at the PVP conferences, and has managed many symposia on toxic substances over the years.

In the community



LEAP pulls off another win for Ronald McDonald House

SRNS LEAP (Leaders Emerging Among Professionals) members pulled their way to victory for a second year at the fourth annual Ronald McDonald House Charities (RMHC) Plane Pull on April 21st at the Augusta Regional Airport. The 20-person team pulled a 150,000-pound FedEx Boeing 727 jet 12 feet in only 7.111 seconds. LEAP was one of 27 teams that helped raise more than \$27,000 dollars for the charity.

Their time of 7.111 seconds won the trophy as the best and strongest young professionals group in the CSRA, and placed the team first among all groups in the community category.

Pictured above are LEAP members Matt Coffin, Connie Yung, Nick Morse and Andy Kruzner, accepting the team's trophy for first place in the Community Division.

All donations from the event benefit the RMHC of Augusta. The house, located on Greene Street in Augusta, provides a "home-away-from-home" for families of seriously and critically ill or injured children receiving medical treatment at nearby hospitals.

SRNL's Steve Wach braves hot temps to finish the legendary Boston Marathon

It was a hot, 89-degree day when the Boston Marathon took place this April. Twenty-seven thousand participants registered for the 26-mile road race, with 4,000 dropping out because of the high temperatures. SRNL's Research and Technology Partnerships manager Steve Wach was one of those who stayed the course.

"It was a really exciting time," said Wach. "The city of Boston supported us, like the city of Augusta supports the Masters. There were crowds of people lining the streets, cheering us on."

The Boston Marathon is one of the world's oldest annual marathons, and ranks as one of the world's most prestigious road racing events. Participants must qualify for the race, based on standards that correspond with their age group and gender. Wach ran two marathons before Boston, one in Atlanta and the other in Miami.

Wach's qualifying time landed him dead in the middle of the qualifiers. During an 18-week training program, he ran short, long, fast and slow runs and never ran more than 20 miles in a session. Totalling 625 training miles, Wach was well prepared for this race, especially since his training took place here in the warm South. His brother-in-law Andrew Thompson, who works at SRS with the USDA Forest Service, trained through a more intense program.

"I had to slow down half way through because of cramping," Wach explained. "Every so often, I would stop at stations and drink a cup of Gatorade, a cup of water, and douse myself with another cup of water. The fire department had set up showers for people to run through, and people stood in their front yards with garden hoses and would spray the runners who requested it."

Wach completed the race slower than expected, but still finished in the top 28 percentile. He also placed 160 out of 1,180 men in his age group.

Finishing the race was a very emotional moment for Wach. "It was a huge accomplishment to complete the race. Once you finished you were rushed by people who catered to your needs, draping blankets over your shoulders, putting a medal around your neck and handing you Gatorade and food."

Wach could also rely on encouragement from home. "My wife has been a strong supporter," said Wach. "She sent a Boston crème pie with me to work, so my co-workers and I could celebrate."

Wach said he plans to do a marathon about once a year, perhaps running the Marine Corps marathon in Washington, D.C., one day.



Steve Wach and his wife after he completed the race.



Steve and brother-in-law Andrew Thompson both completed the Boston marathon.



Scenes of SRNS

Bill Jones holds a length of Triassic-age core collected from beneath SRS. SRNL manages the SRS Core Lab, which houses more than 400,000 linear feet of sediment and rock core, making it one of the two largest collections in South Carolina and one of the largest archives in the southeastern United States. (Photograph by Bruce Boulineau)

Savannah River Nuclear Solutions

Fluor • Newport News Nuclear • Honeywell



Putting our world-class nuclear knowledge to work for the nation

National Security • Clean Energy • Environmental Stewardship



We never take our eye off the ball.