

● MARCH 2017

SAVANNAH RIVER NUCLEAR SOLUTIONS



SRNS Today



Robots on duty

Remotely-powered vehicle inspects high-hazard areas

This month

Safety awards • Operational improvements • Education events • United Way Project Vision • Heart Walk





Stuart MacVean
SRNS President and CEO

Welcome

to the March 2017 edition of

SRNS Today

Savannah River Nuclear Solutions is defined by its commitment to safety and security, service to our nation and exploration of new technologies. SRNS is also set apart by its unparalleled community service.

In this month's edition of SRNS Today, we feature a number of examples to demonstrate these unique attributes. SRNS employees are recognized for their personal accountability to safety and security, which is imperative for our continued service to the country. SRS is also recognized as the benchmark for nuclear operations, materials production and storage, and nuclear safety.

You'll also see one-of-a-kind technologies used in potentially high-hazard facilities and employees removing non-value-added steps from our processes. SRNS' continuous improvement culture motivates the workforce to not only achieve significant cost savings and avoidances, but also to make work life better and more efficient.

When it comes to adding value, our employees' spirit for community outreach is unsurpassed. I hope you enjoy reading about the extensive volunteer efforts at local schools and the fundraising campaigns benefitting the United Way and the American Heart Association. This month, 250 employees put their muscle behind 17 projects in Aiken County during the 21st annual Project VISION (Volunteers in Service in Our Neighborhoods).

SRNS is dedicated to creating value for our customers and communities. We make the world safer through our contributions to solving national and global challenges, and we deliver on our commitments.



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Savannah River Nuclear Solutions, LLC, is a Fluor-led company whose members are Fluor Federal Services, 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 employees and other stakeholders of the company's operational- and community-related activities. If you have questions or comments, please contact us at 803.952.9584 or visit our website.

www.savannahrivernuclearsolutions.com



Operators work on modifications to a one-of-a-kind robotic recovery crawler used in H Canyon.

Robotic crawler on duty

Remotely-powered vehicle used to inspect high-hazard areas

SRNS and the Savannah River National Laboratory (SRNL) have recently completed modifications to a one-of-a-kind robotic recovery crawler, which has saved taxpayers \$500,000 through its use.

Remotely powered and controlled vehicles (referred to as crawlers) are used for inspecting highly hazardous areas in H Canyon's exhaust system. Because of the harsh environment of the system (i.e., radiation, contamination, chemical and physical hazards and high air flow), crawlers were selected as the safest inspection method in 2001.

"The crawler program has proven to be a safe and effective way to inspect the facility exhaust system," said Bill Giddings, Exhaust Tunnel Inspection Project Manager. "The crawler program team decided to modify the existing crawler this year instead of procuring a new crawler. This decision saved approximately \$500,000."

The existing crawler was originally designed as a recovery and inspection crawler. It successfully completed these activities during the last evaluation of the exhaust tunnel. Some of the modifications completed this year included replacing the front end by removing forks used for recovery and replacing them with a bucket. The

bucket will be used to remove debris from the tunnel path and provide a better travel surface for future crawler inspections. Other modifications included improving stability through a counter-weight replacement and adding additional video capability.

The crawler modifications took three months to complete. Giddings says the successful completion is thanks to the hard work of SRNS and SRNL employees.

"We couldn't have done it without the cooperation of our teams," he said. "SRS is truly lucky to have such an experienced, committed and talented workforce."

The H Canyon exhaust system is used to contain and direct the exhaust air flow from the Canyon process areas to the Sand Filter System. The Sand Filter System removes the radionuclide particles from the air stream prior to release of the air to the environment.

Originally constructed to produce nuclear materials in support of the nation's defense weapons systems, H Canyon continues to play an important role in the efforts to eliminate or minimize nuclear materials through safe stabilization and/or disposition of DOE's nuclear materials.

● Lt. General Klotz visits SRS

Lieutenant General Frank G. Klotz, the Department of Energy's Under Secretary for Nuclear Security and Administrator for the National Nuclear Security Administration (NNSA), recently took the opportunity to see first-hand SRNS' people and activities that support NNSA's important missions enhancing our national security. Lt. Gen. Klotz visited SRS March 30, starting his day at the site of the SRS Heritage Museum in Aiken, where he got a preview of the materials that will be on display about the site's origins and history. During the day, he also spent time in the Savannah River Tritium Enterprise facilities, where SRNS performs work in support of the nation's nuclear stockpile, as well as SRNL, where he viewed the laboratory's applied research and development support for a variety of NNSA programs.



Trading places

Exchange program gives SRNS Tritium engineers new insights

An engineering exchange program between SRNS and the Kansas City National Security Campus (KCNSC) is giving early-career engineers an opportunity to see how the other half lives, or at least how the other half works.

The Savannah River Tritium Enterprise (SRTE) and KCNSC fill important and related functions in NNSA's Defense Program missions. KCNSC's manufacturing facility produces a wide array of intricate components to enhance the safety and security of our nation's defense program. Through the exchange program, engineers spend two weeks at the opposite site. They meet and shadow their counterparts, and in the process gain a deeper understanding of how the two sites fit together, helping to build a stronger collaboration.

Rebekah Butler, one of the SRTE engineers who have taken part in the exchange, called it "a great experience that will be an asset for my future in the Tritium Facilities." So far, three SRTE engineers have taken part: Butler, Will Hopkins and Matt Muehlfield. Three Kansas City engineers have come to SRTE, including Curtis Kramer, who was here last month.

In addition to the understanding they gained by seeing the KCNSC manufacturing processes first-hand, the SRTE participants are

finding great value in the connections they were able to make with their counterparts in Kansas City. "I don't think a lot of times engineers at our levels get to make these kinds of connections," Muehlfield said. These person-to-person contacts are paying off for both sites, facilitating discussion of issues and making it easier to find the right person to provide information. Hopkins said that, within two days of returning home from Kansas City, the ability to call on the contacts he had made saved the time and effort of multiple people in finding the answer to a question about needed parts.

The exchange also provides a way for both sites to benefit from the other's experiences. Some of the work Muehlfield observed while he was in Kansas City, for example, related to a process with which SRTE has many years of experience. He was able to explain how SRTE had overcome some of the hurdles. "This information will be helpful to them as they are developing their process by being able to learn from our experiences with what works best," he said.

KCNSC's Kramer found value in seeing how the work is carried out at SRTE. He was impressed with the procedures and requirements that are "making sure everything is safe, reliable, and controlled."



S.C. Manufacturers Alliance honors SRNS

Group commends company for safety performance excellence

SRNS was honored in March as a Safety Award winner by the South Carolina Manufacturers Alliance (SCMA) for excellence in safety performance during 2016. SRNS received formal recognition for its performance at the SCMA Safety Summit in Spartanburg, S.C.

Although the company has been commended for safety excellence in the past, SRNS employees continue to strive to constantly improve.

"SRNS employees are truly committed to safety and it is visible in all that they do," said Stuart MacVean, SRNS President and CEO. "They take safety personally and strive continuously to ensure that they, and their coworkers, go home to their families and friends unharmed."

Combined, SRNS' Operations and Construction divisions worked more than 9.7 million hours during the calendar year with two injuries that required a day-away from work in the operations division, while the construction division completed the year without a single lost time injury.

"Considering the size of the SRNS workforce and the type of work that is conducted by our employees every day, their safety performance is nothing short of remarkable," said MacVean.



Janice Williams (left) and Mary Baird of SRNS accept awards on behalf of the company at the South Carolina Manufacturers Alliance Safety Summit on March 16.

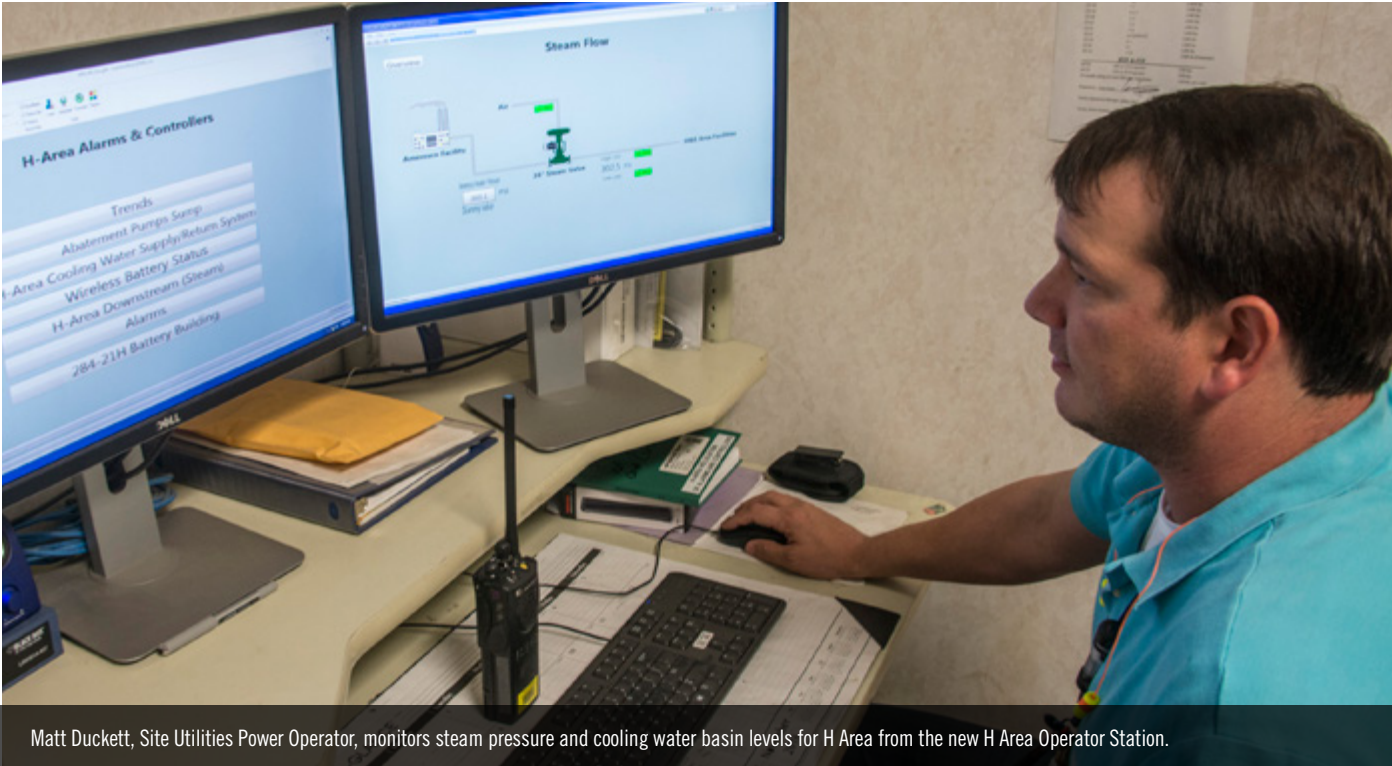
● Bob Bonnett receives Fluor Corporate Award

Workplace safety is a serious matter at SRS. For Bob Bonnett, SRNS Senior Engineering Technical Support Specialist, workplace safety is motivation to go above and beyond the call of duty, an attribute that was recognized by Fluor Corporate, an SRNS parent company that awarded Bonnett with a Health, Safety and Environmental (HSE) Corporate Award of Excellence.

"Fluor is one of the world's largest engineering, construction and project management firms, with more than 60,000 employees worldwide," said Stuart MacVean, SRNS President and CEO. "I am thrilled that one of the SRNS team members was selected as a recipient of a Fluor HSE Corporate Excellence award. This recognition speaks volumes about Bob Bonnett's commitment to safety leadership."

"I am both shocked and delighted at having received the Fluor Corporate HSE Award of Excellence," said Bonnett. "I definitely have a passion for looking out for others. It is just who I am—ingrained in me by my parents who worked at SRS for more than 30 years."





Matt Duckett, Site Utilities Power Operator, monitors steam pressure and cooling water basin levels for H Area from the new H Area Operator Station.

Integrated innovation enables new H Area Operator station

The H Area Operations Station responsible for controlling process cooling water and steam for H Canyon and HB Line was, until recently, housed in an out-of-service steam plant constructed more than 60 years ago.

Faced with legacy infrastructure issues and process equipment deterioration, Site Services (SS) employees began exploring options for addressing the growing challenge and solved the problem through teamwork and integrated innovation.

SS, Operations and Engineering identified an existing structure in K Area that could provide the same operational capability as the old

steam plant. SS relocated the structure to H Area and installed new wireless technology for process monitoring, eliminating the need for replacement wiring. Other upgrades included programmable logic control and software for process monitoring and alarms. The team also initiated process improvements including new compressors, dryers and a new structure for direct current power supply.

“This upgrade was realized through Wayne Gleaton’s leadership, vision and tenacity,” said Geoff Reynolds, Director of Site Services. “Wayne and his team did an excellent job to help H Area operations extend into the foreseeable future.”

Collaboration reduces number of fire system impairments

Fire suppression systems are necessary for any industrial complex, but with its hundreds of buildings and thousands of devices, SRS depends on a complex and extensive fire suppression system of fire water supply, alarm and detection devices, life safety features, passive and manual fire protection systems, and manual fire suppression.

Fire system impairments are generated when a condition exists where a fire protection or life safety system cannot perform its intended function. For a site such as SRS, the number of impairments can become excessive if not monitored and controlled properly.

Over time, the number of open system impairments across SRS was reduced by approximately 50 percent. Typically, 40-50 open impairments were being tracked. However, the Fire Protection Engineering organization challenged the Fire System Testing &

Maintenance (FST&M) group to decrease that number even further.

Now, the number of impairments being monitored is less than 20, and the number of impairments greater than 180 days is less than five—a reduction of 80 percent over the past five years in both categories.

“While this has truly been a combined effort by all, the effort by the FST&M organization has been noteworthy,” said Jerry Czarnecki, Site Services Area Manager, Fire Operations. “They shoulder the lion’s share of effort for restoring impairments. And they have been able to meet these challenges while at the same time completing extensive regulatory required testing and corrective maintenance activities to prevent the number of impairments from increasing.”

FST&M continues their success while maintaining schedule efficiency greater than 90 percent.

New Relief Valve Center to save \$600,000 annually through testing, inventory

More than 5,400 pressure relief valves, or PRVs, are in service across SRS. SRNS has created a new Relief Valve Center, part of the nationally accredited 711-A Relief Valve Shop (RVS). The Center provides a central location for testing, inventorying and storing PRVs, and with the creation of the Center, cost savings of approximately \$600,000 annually are forecast.

All PRVs require preventive maintenance (PM) to be performed about every four and a half years, with approximately 1,200 PMs performed by the RVS annually. Before the Relief Valve Center was formed, facilities did not have the time or the resources to stop operations in order to wait for a PRV to go through the PM process. Instead, they ordered a new relief valve and either stored the old valves in their facility or threw them away. However, some valves could have been reused.

Recognizing an opportunity for improvement, a performance team was tasked with developing a method to reduce the number of valves purchased, and also to minimize multiple storage locations across the site.

Their solution was the Relief Valve Center, a centralized PRV station with an inventory database for easy access. The Center provides a place to consolidate and manage the reuseable valve inventory of approximately 600 PRVs a year. The Center also provides a storage space so that multiple valves can be purchased per requisition cycle, optimizing the inventory of spares available.



James Fulmer inspects a relief valve that was returned from a facility.

The Relief Valve Center has also led to the creation of a new relief valve reuse program. Under the program, the recycled valve is inspected, repaired, tagged and staged for facility pick-up and installation. Once the facility installs the PRV provided by the reuse program, the old valve is returned to the stock at the Relief Valve Center where it is inspected, tested and repaired before being placed in the inventory database for additional use.

The team has begun a phased approach to collect inventory from across various facilities. F and H Areas are complete, with approximately 500 valves placed in inventory.

Funding the workforce of the future

SRNS President and CEO Stuart MacVean presents Ann Carmichael, Dean of the University of South Carolina Salkehatchie, with a check for \$25,000 to support the establishment of the new Career Services Center on the Allendale campus. This funding will enable the university to establish the center and support their students in navigating their desired career paths.





Employees raise more than \$80,000 for 2017 Heart Walk

More than 300 SRNS employees were among thousands of Aiken-Augusta area residents who hit the trail for the 2017 CSRA Heart Walk on Saturday, March 11. The annual event at the North Augusta Greenway promotes awareness of heart-healthy living and benefits the American Heart Association. This year's slogan was "Rev It Up."

Over the course of the two-month site campaign, employees raised more than \$84,791, and SRNS provided an additional philanthropic-giving donation of \$10,000.

"We all know someone who has been affected by heart-related issues," said Stuart MacVean, SRNS President and CEO and charter chairman of the CSRA American Heart Association Board. "When you look at the statistics, it really brings home the pervasiveness of cardiovascular disease and stroke, and together as Team Savannah River Nuclear Solutions, we were able to make a difference for such an important cause. I want to thank all of our captains and

participants for organizing luncheons, raising pledges and attending the day of the walk."

Proceeds from the CSRA Heart Walk will fund the American Heart Association's life-saving initiatives, such as research for the treatment of cardiovascular disease and stroke, the number one and number five killers of men and women in the United States respectively, and teaching Americans how to develop lifelong healthy habits.

"I appreciate all of our walkers and runners waking up bright and early on a Saturday morning to participate in the festivities," added Kim Baker, 2017 SRNS Heart Walk Campaign Chair. "It was a great way to celebrate an employee-driven campaign. We were able to 'Rev It Up' to exceed our \$75,000 goal, and I appreciate everyone's hard work and continued support that made it possible."

Annual event introduces girls to engineering possibilities

SRNS, in partnership with the Ruth Patrick Science Education Center and the Society of Women Engineers, hosted students from schools throughout the CSRA for "Introduce a Girl to Engineering."

Activities included a robotics demonstration, a race to build a tower with a piece of newspaper, and a "puff mobile" competition in which the girls built cars out of hard candy and paper. "I really liked the puff mobiles because we could be creative and figure out on our own how to build the best car," said Kathleen Coleman, eighth-grade student at St. Mary Help of Christians Catholic School.

Volunteer Cathy Mussi from SRNL Global Security presented an interactive discussion about radiation. Mussi, a nuclear engineer, supports testing and training for detection devices and instrumentation to identify and measure radioactive material.

"It was very rewarding for me to present the topic of radiation to these eighth graders. Radiation is something that naturally occurs in the environment, yet people may misinterpret what it is or fear it," said Mussi. "I was really impressed by all the students because they were very knowledgeable about the difference between non-ionizing radiation, such as microwaves, and ionizing radiation, such as CT scans."



Alexia Denise Powell (left) and Cierra Knight watch Serena Mathis put their team's "puff mobile" to the test during Introduce a Girl to Engineering Day.

Teach-Ins bring science creativity and fun to middle school classes

SRNS employees observed National Engineers Week 2017 by conducting science and engineering demonstrations for more than 3,000 students throughout the greater Aiken-Augusta area.

In two weeks, more than 60 SRNS engineers, scientists and technicians conducted over 150 "Teach-In" demonstrations at 29 middle schools, with a focus on seventh-grade students.

Teach-Ins promote the importance of math, science and technology literacy. SRNS volunteers provided interactive demonstrations and informative discussions to give students a broader understanding, predominantly in the field of engineering.

"The partnership between SRNS and area schools provides a highly beneficial opportunity for SRNS scientists and engineers to work directly with students in their classrooms," said Stuart MacVean, SRNS President and CEO. "This is one of many ways we are reaching into local school systems and area colleges to develop an interest in a potential career with SRNS, part of an extensive effort to create a pipeline for future workers."

Middle schools in the South Carolina counties of Aiken, Allendale, Bamberg, Barnwell and Edgefield, plus the Georgia counties of Columbia and Richmond, have participated in this outreach program managed and sponsored by SRNS since 2008, with more than 18,000 students reached.

"We're grateful for our partnership with SRNS and their efforts to foster student interest in STEM fields," said Aiken County Public Schools Superintendent Dr. Sean Alford. "Teach-Ins pair our classroom instructors with real-world scientists and engineers. This much-anticipated annual event in our middle schools provides



North Augusta Middle School students Katiebeth Cannon (left) and Sidney Stephens enjoy learning about the unusual properties of Oobleck during one of this year's 150 SRNS Teach-In demonstrations as SRNS engineers Ian Conant (left) and Ethan Simmons look on.

a real-world experience for students and makes their classroom curriculum relative to the workforce."

North Augusta Middle School seventh grader Sidney Stephens noted that a hands-on demonstration using Oobleck was an interesting way for her class to experience that work at a job, especially engineering, can be fun. (Made from cornstarch and water, Oobleck has the properties of a liquid when poured; however, it quickly becomes a solid when force is applied.)

The SRNS Teach-In Program is managed by SRNS Education Outreach personnel for the DOE Savannah River Operations Office.

SRNS, DOE, USCA team up to support 2017 Science Fair

With the support of DOE and SRNS, hundreds of Central Savannah River Area science-savvy students recently participated in the 2017 Savannah River Regional Science and Engineering Fair competition.

More than 200 students representing schools from a six-county region located within the greater Aiken-Augusta area put their project on display at the University of South Carolina Aiken (USCA) in an attempt to impress the judges.

"We are always impressed with the diversity of projects and themes. Many of the experiments can be extremely creative," said Candice Dermody, SRNS Manager, Education Outreach and Talent Management. "The dedication and creativity displayed by the students is inspiring."

With the support of co-sponsor USCA, SRNS coordinated the competition for the eighth year, ensuring an educational and rewarding experience for each student competitor.



Tristyn Woods (left) and Mikhail Cullars, students at Richmond County Technical Magnet School, explain their project to Science and Engineering Fair judges Paul Cox (foreground) and Dave Fauth.

SRNS wins top honor from CSRA UW

The United Way of the CSRA recently honored SRNS with their top honor—the Pinnacle Award—for the largest employee giving donation during the 2016 campaign.

During the United Way of the CSRA's annual meeting, officials announced the campaign total of \$3,312,613, of which \$400,000 was from SRNS employees.

"We are so grateful for the generosity shown by SRNS employees, past and present," said LaVerne Gold, President and CEO, United Way of the CSRA. "Whether in good times or bad, they go above and beyond, entrusting us with their time, talent and treasure to change the lives of so many people in our community."

During the 2016 campaign, SRNS employees raised more than \$1.2 million to benefit a total of nine United Way agencies from the greater Aiken-Augusta area.

"Thank you to all SRNS employees for making last year's campaign a tremendous success," said Carter Hopkins, 2016 SRNS United Way Campaign Chair. "We wouldn't be able to accomplish this without the ingenuity of our employees, who are always thinking of creative ways to fundraise through sports tournaments, bake sales, chili cook-offs and silent auctions, among many other special activities."

SRNS receives six awards from Aiken County UW

During the United Way of Aiken County's annual meeting on March 16, SRNS employees received six achievement awards that recognize the impact they have made in Aiken County.

SRNS won the "Highest Employee Achievement Award" for contributing \$566,389, and the "Second Highest Corporate Contribution Award" for its \$112,000 corporate match. SRNS also received the distinction of "Highest Overall Campaign" for 2016.

"This award is a tribute to what our employees have accomplished for people in need within our community," said Dave Eyler, SRNS Executive Vice President and Chief Operating Officer. "This is an employee-led effort, and I'm impressed with the level of commitment that SRNS employees have taken to heart. The bake sales, silent auctions, group luncheons and sports tournaments throughout the campaign helped us exceed our fundraising goal for the United Way."

Other SRNS employee awards and recognition included:

- Carter Hopkins, the SRNS 2016 Campaign Chair, "Campaign Leader of the Year"
- Caroline Reppert "Young Philanthropist of the Year"
- Jim Moore, the SRNS loaned professional

"At our St. Patrick's Day-themed annual meeting, we described Savannah River Nuclear Solutions as the pot of gold at the end of the rainbow for Aiken County," said Sharon Rodgers, President, United Way of Aiken County. "SRNS employees continue to provide the largest overall contribution for our campaign, and this directly



SRNS Executive Vice President and Chief Operating Officer Dave Eyler accepts the Highest Employee Achievement Award from United Way of Aiken County's 2016 Campaign Chair Sharon Cormier.

impacts people who live right here in our community, giving them the chance for a better life."

Overall, the United Way of Aiken County achieved a record-setting \$3,033,634 during its 2016 campaign. Supporting 35 partner agencies, the organization strives to help people in Aiken County with the building blocks of life, which include education, access to healthcare and financial stability.

In the summer of 2016, SRNS employees achieved over \$1 million for nine local United Way agencies during the company's annual campaign, and SRNS provided a \$200,000 corporate match.



SRNS employees Danielle Elliott, H Area Training, and Sterling Robertson, H Area Engineering, work to install a new set of steps during this year's SRS Project Vision.

SRNS volunteers step up to care for others during annual Project Vision

The ringing of hammers striking nails and shrill screech of table saws slicing through boards of wood recently filled the air during this year's SRS Project VISION (Volunteers in Service in our Neighborhoods) charitable event.

According to SRNS employee and Project VISION Coordinator Joey Smiley, approximately 250 SRS employees volunteer to take a day off each year to work on one of 12 to 15 project teams. This year, 17 teams stepped forward to help. In total, approximately 500 man-hours were invested in projects throughout Aiken County for this year's Project VISION day, part of the "Days of Caring" United Way program sponsored by the U.S. Department of Energy's Savannah River Site.

United Way partner agencies receiving assistance this year included Tri-Development, American Red Cross, Child Advocacy Center of Aiken, Community Medical Clinic of Aiken County, Mental Health America of Aiken County, Golden Harvest Food Bank, Helping Hands, Salvation Army and ACTS (Area Churches Together Serving). In addition, basic home repairs are made for low-income senior citizens, the disabled and financially-challenged homeowners.

"I'm grateful and feeling blessed that employees from SRNS were willing to come and help me today," said Victoria Sapp, a resident of Aiken County. "My back door was just about ready to fall out. I greatly appreciate all they've done."

"The sheer number of SRS employees who volunteer each year is inspiring," said Stuart MacVean, SRNS President and CEO. "No matter the need, they continually step up to assist people who are struggling to help themselves. Project VISION, Toys for Tots, the Heart Walk, Golden Harvest food drives and our annual United Way fundraising campaign are all good examples."

ASTM honors SRNL's Brisson

SRNL Fellow Technical Advisor Michael Brisson has been recognized for his leadership in establishing standards in programs for air quality and nuclear fuel cycle analysis.

Brisson received the ASTM International 2017 Award of Merit, which includes the title of Fellow. This is the highest award given by ASTM to recognize a member for contributions to developing standards in their industry.

ASTM is an international standards development organization. Its 140 technical committees and more than 30,000 members develop standards in a wide variety of applications and fields.

Brisson first became involved with ASTM in 2005 while conducting samples and analyzing trace-level beryllium at SRNL. Seeing a need to identify a consensus standard for analytical methods, he helped establish a method of analyzing radioactively contaminated beryllium samples that SRNL continues to use today.

Among his ASTM contributions, Brisson has chaired numerous committees including the 500-member Air Quality working group. He serves in leadership positions for the Nuclear Fuel Cycle committee as chairman of the subcommittee on Methods of Test for Nuclear Fuel Cycle and as vice chairman of the subcommittee on Quality Assurance, Statistical Applications and Reference Materials. He is a member of the ASTM Committee of Standards, responsible for the review and approval of all technical committee recommendations for actions on standards.

In his 12-year membership, he has been the principal author of six new ASTM standards and has contributed major revisions to 10 others. The recipient of several other ASTM awards, he was named the President's Leadership Award winner in 2009.

Over his 28-year tenure at SRNL, Brisson has been involved with a variety of spectroscopic methods, provided support for laboratory quality assurance and accreditation and continues to serve as a subject matter expert in trace measurement of beryllium.

Currently, Brisson is leading an international team in revising a standard on the preparation of working reference materials in nuclear fuel cycle laboratories. This project will provide greater quality for safeguards measurements while also reducing the demand for certified reference materials.



Michael Brisson



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