

● DECEMBER 2019

SAVANNAH RIVER NUCLEAR SOLUTIONS



SRNS Today



Celebrating scientific excellence

Dr. Christine Langton
honored with
Donald Orth Lifetime
Achievement Award

This month

Toys for Tots • New Engineering Center of Operations • Community philanthropy



Stuart MacVean
SRNS President and CEO

Welcome

to the December 2019 edition of

SRNS Today

'Tis the season! This December has been filled with the spirit of giving.

Our Savannah River Nuclear Solutions team is renowned for their dedication and generosity to the local community. And this month was no exception.

Together with other Savannah River Site contractors, employees set a new record by donating more than 20,000 toys—games, dolls, stuffed animals, art sets and other fun finds—and wheeling in more than 600 shiny new bicycles. These truckloads of surprises are destined for area children helped annually by the local U.S. Marine Corps Reserve's Toys for Tots and the Salvation Army's Angel Tree program. Each year, it warms my heart to know that across the area, so many children will know a better Christmas, thanks to the many big-hearted "Santas" at SRS.

Our corporation was also privileged to provide financial assistance to Toys for Tots, and also to other community programs. We're assisting a new Habitat for Humanity program, called "Neighbor Up," which provides help to existing homeowners. SRNS has also made donations to the local Area Churches Together Serving and the Community Ministry of North Augusta. Both of these agencies provide much needed help throughout Aiken County to residents in need of food, clothes, medication and other day-to-day needs. SRNS is indeed happy to lend a hand to help our neighbors.

I wish each of you a safe and happy holiday season. I hope you enjoy this edition of SRNS Today, and as always, thank you for your interest in Savannah River Nuclear Solutions.



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 803.952.6131 or visit our website.

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Toys for Tots

SRS employees donate thousands of toys to area kids

SRS employees have once again played Santa for children in the Central Savannah River Area this year, contributing more than 20,000 toys and 600 bicycles to the U.S. Marine Corps Reserve's Toys for Tots and the Salvation Army's Angel Tree Program.

Since 1991, SRS employees have donated more than 400,000 toys during the annual Toys for Tots and Angel Tree campaigns.

Partnering with these programs to benefit less fortunate children in the area has been an important tradition supported by the largest contractor companies at SRS. SRNS, who manages the annual event, was one of three contractors to provide corporate checks to further add to the success of this year's toy drive.

Once the toys are sorted, Aiken Marines distribute the gifts to children in Aiken, Allendale, Barnwell and Edgefield counties, as well as the cities and towns of North Augusta, Beech Island, Belvedere, Williston, Salley and Couchton. The Marines from Augusta provide toys to Burke, Columbia, Glascock, Hancock, Jefferson, Jenkins, Lincoln, McDuffie, Richmond, Taliaferro, Warren, Washington and Wilkes counties and the town of Wrens.



Photo above: Presenting an SRNS corporate donation of \$5,000 to Toys for Tots (TFT) are (from left) Stuart MacVean, Danielle Elliott, SRS Toys for Tots (TFTs) Chairperson; Staff Sergeant Gregory Allen, U.S. Marine Corps Reserves; Seneca Johnson, SRS TFTs Co-Chair; Emily Skelley, SRS TFTs Co-Chair; Candice Gordon, TFT Treasurer; and Marion Cofer, Savannah River National Laboratory. Photo at left: Staff Sergeant Allen checks out the many bikes donated this year.



Dashing for Bikes, Walking for Trikes

Annual relay races raise funds for Toys for Tots

SRS employees recently raised eyebrows and funds during the Dash for Bikes, Walk for Trikes Race, which led to the purchase of bicycles and tricycles for this year's SRS Toys for Tots campaign.

Since the first race in 2010, approximately \$55,000 has been contributed towards the purchase of more than 1,000 new bicycles and tricycles.

Nearly 100 employees participated in this year's relay race, working together to set a record, raising more than \$6,500 for the SRS 2019 Toys for Tots campaign. Teams also purchased and donated bicycles for this event.

"SRS employees love the dual benefit of the race," said Teresa Eddy, this year's event coordinator and SRNS employee. "While they make the meaningful gesture of donating bicycles for deserving children for Christmas, they are also gaining the wellness

benefit that training, teamwork and competition provide. Every year, the competition and costumes get more elaborate, which is proving to be an indication of site-wide support and compassion."

For the past nine years, team members lined up at the SRS training track, wearing their own unique costumes ranging from funny to bizarre, simple to intricate. Smurfs, reindeer, Minions, emojis and elves have raced in the past.

New costumes for this year included: Pac-Man, Buddy the Elf, Tacky Turkeys, Scooby Doo, Cat 5 Devils and SRS-specific themes.

The SRNS Tritium Trotters set a new track record with a time that earned them first place over former five-year champions, Centerra's Caribbean Cruisers.

This year, participation was at an all-time high with 18 teams competing from across multiple on-site companies.

SRNS helps Habitat to 'Neighbor Up' with \$10,000 donation

SRNS has helped kick-start a new Aiken County Habitat for Humanity program with a \$10,000 contribution. Habitat launched "Neighbor Up" at a September Aiken Rotary Club meeting; the program will focus on repairs and other improvements for existing homeowners. Aiken's Wicklow Heights, an area on Aiken's north-side, will be the first to receive assistance. "Since we heard about the program, we wanted to support fundraising for the initiative," Stuart MacVean said. "SRNS and its employees have been involved with Habitat community for a long time, all the way up to sponsoring a house, and this brings SRNS contributions to Habitat to \$94,700 since 2010." MacVean presented the donation at a recent Rotary Club of Aiken meeting. Pictured (L-R) are Habitat Board of Directors member Craig Schenck, Aiken City Council member Lessie Price, SRNS Habitat Board member Aaron Washington, MacVean and Habitat Board Vice Chair Jim Marra.



Burgess "Med" Allen (right) assists (from left) Kaitlin Glowaski, Sunny Soma, Kyle Miller and Andrew Barclay at the new ELDP center of operations in 703-2B.

New center of operations provides training space for Engineering Leadership Development Program

As SRNS continues to grow, departments must assess how processes can be further improved to create a compelling place to work.

Recently, the 730-2B cafeteria underwent a transformation to become a center of operations for the Engineering Leadership Development Program (ELDP) to simplify training processes.

The newly-renovated space provides a central meeting location for ELDP members to interact with administrative personnel, receive mentoring and obtain basic qualification training in a collaborative environment. Prior to this, ELDP members occupied various cubicles on the second floor of 730-4B, which made it difficult for mentors to easily communicate with the group.

"Our program brings the engineering organization together through training, large group presentations, facility tours and group activities," said ELDP Manager Eric Johnson. "We appreciate the support from the engineering organization as well as the energy and determination of our new engineers."

Nearly 500 new engineers have come through the ELDP; the program has a 90 percent retention rate.

"The ELDP does more than prepare you specifically for your next position; it prepares you for a career on site. Through tours, training and projects, the ELDP provided me with knowledge and connections that will benefit me long past my first assignment."

Hope Hartman

"The ELDP does more than prepare you specifically for your next position; it prepares you for a career on site," said SRTE Reservoir Systems Packaging Engineer Hope Hartman. "Through tours, training and projects, the ELDP provided me with knowledge and connections that will benefit me long past my first assignment."

The ELDP is a two-month program that allows newly-hired college graduates to learn about SRS and experience various challenging opportunities within SRNS Engineering. The program is involved in engineer recruiting, interviewing, hiring, on-boarding, training, mentoring, networking and placement.



A lifetime of scientific excellence

Dr. Christine Langton honored with 2019 Donald Orth Award

Dr. Christine Langton is the 2019 recipient of the SRNL Donald Orth Lifetime Achievement Award for her work in cementitious materials science to stabilize radioactive waste and nuclear materials.

The award was announced during the laboratory's recent annual recognition event—SRNL Celebration of Success—where more than 100 researchers, engineers, scientists and mission support personnel were recognized for scientific and technical excellence. More than 60 SRNL patent winners were also acknowledged during the event.

The Orth Award is the highest honor given by the laboratory for technical excellence and leadership. Established in 1993, the award was named for the late Dr. Donald Orth, who retired from SRNL in 1992 after a distinguished 41-year career. The award was created to honor an individual “who by character and leadership best exemplifies Dr. Orth's character and contributions.”

“For many years, Dr. Langton's expertise in cementitious materials science has been instrumental in the success of some of the most challenging site, national and international nuclear risk reduction efforts,” said SRNL Laboratory Director Dr. Vahid Majidi.

Dr. Langton is internationally recognized as an expert in designing innovative materials and processes for treating radioactive waste and specialty grouts and concretes for radioactive waste tank closure and nuclear facility deactivation and decommissioning projects.

She has provided solutions to legacy waste management problems at SRS and numerous other DOE sites. Her contributions range from

experimental results that further the mechanistic understanding of material performance under realistic exposure conditions to field implementation strategies and planning.

Her expertise as a consultant has been applied throughout the DOE Complex and the world, including Japan, Australia, Canada, China and Brazil. As part of a team of SRNL nuclear cleanup experts assisting Tokyo Electric Power Company to develop and deploy strategies to enable recovery from the Fukushima Daiichi Nuclear Power Plant accident, Dr. Langton served as principal advisor on the use of cement to seal leaks into and out of the damaged reactors.

Dr. Langton's recent focus has been in reducing the danger associated with nuclear waste inventory in nuclearized and non-nuclearized countries with small amounts of radioactive waste and limited or no radioactive waste disposal capabilities. In this capacity, Dr. Langton and an SRNL team supported efforts in Brazil for borehole disposal of sealed sources.

In 2016, Dr. Langton was presented with the Fred C. Davison Distinguished Scientist Award from Citizens for Nuclear Technology Awareness. She has also been recognized for participation in the International Atomic Energy Agency missions on radioactive waste treatment, next generation fuel cycle waste management, low- and intermediate-level waste conditioning for final disposal, and technology for waste treatment training for China.



SRNS presents \$20,000 in donations to two local social service agencies

SRNS has presented \$20,000 to two local United Way partner agencies for their outstanding partnerships to help CRSA citizens. Area Churches Together Serving (ACTS) and Community Ministry of North Augusta (CMONA) are local social service organizations that work in partnership to help meet the needs of all Aiken County residents, providing assistance with food, clothing, utilities, medication, housewares and furniture. Since 2010, SRNS has contributed \$86,000 to both organizations. Accepting contributions from Stuart MacVean (right) are (from left) SRNS employee and CMONA Board President Bill Swift, CMONA board member Nita Swift, CMONA Executive Director Elizabeth Merritt and ACTS Executive Director Suzanne Jackson.



Tour participants included (from left) Matthew Priester, RCBOE; Yolonda Brown, SRNS Radiation Control Manager; James Atkins, RCBOE President; Dr. Malinda Cobb, Patsy Scott, Helen Minchew, Leonard Fletcher, all RCBOE; Kenneth Bradshaw, Richmond County Schools Superintendent; Kaden Jacobs, Charlar Weigle, both RCBOE; and Jim Marra, Executive Director, Citizens for Nuclear Technology Awareness.

Richmond County BOE tours SRS, learns about student opportunities

Members of the Richmond County (Georgia) Board of Education (RCBOE) recently toured SRS to learn more about the site and how best to prepare their students for potential employment at SRS.

“I think this visit is a great first step towards forming a partnership with SRS,” said Jimmy Atkins, President, RCBOE. “As members and representatives of the school board, we need to be looking for every opportunity that's out there for our students. The more we know about SRS and its missions, the more it helps us as decisions are made in the board room.”

The site tour also included several facilities and SRNL, where board members met with employees who graduated from Richmond County schools.

The Richmond County School System has increased their participation in SRS Education Outreach initiatives, including the CSRA Regional Science and Engineering Fair school pre-registration and workshop, an A.R. Johnson High School environmental field trip and an upcoming tour focused on mechanical maintenance careers.

Dr. Hang of SRNL elected as AIChE Fellow

The American Institute of Chemical Engineers (AIChE) recently elected SRNL Senior Fellow Engineer Dr. Thong Hang an AIChE Fellow. Given annually, the title recognizes AIChE members with at least 25 years of experience for their outstanding professional accomplishments and service to chemical engineering.

Dr. Hang was recognized for 30 years of contributions in the chemical process engineering and computational modeling fields.

SRNL Associate Laboratory Director, Bond Calloway, a past AIChE President, said Hang's expertise significantly contributed to SRNL capabilities. “Thong's



Dr. Thong Hang

models have led to SRNL being nationally recognized in ion exchange system modeling, especially for the purposes of design, optimization and predictive capabilities in real-world applications,” said Calloway. “His expertise has led to cost-savings and increased safety in the nation's cleanup program.”

Currently, Dr. Hang is involved in the SRS tank closure project, primarily focused on the Tank Closure Cesium Removal (TCCR) Process. TCCR is a demonstration project designed to accelerate the removal of radioactive waste that uses ion exchange columns and a special engineered resin to remove cesium from salt waste. Successful operations of TCCR will represent a major step forward in the liquid waste cleanup mission at SRS and across the DOE complex.

He has also served as the 2019 chair of the AIChE Nuclear Engineering Division where his responsibilities included managing plenary sessions and technical sessions related to hazardous and nuclear waste processing and management.

“It is a great privilege and honor for me to be part of this elite group,” said Hang. “It is a significant achievement to be recognized and nominated by my peers.”

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