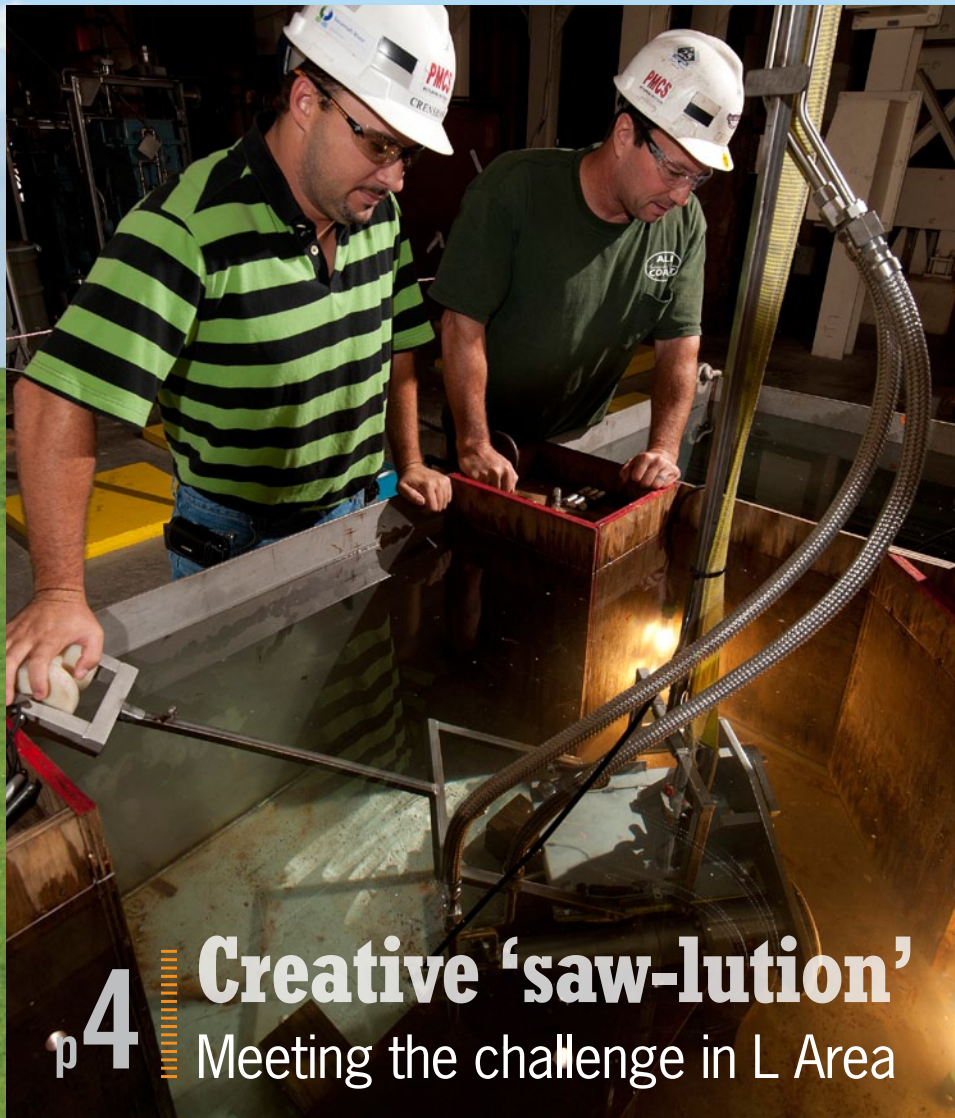


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SAVANNAH RIVER NUCLEAR SOLUTIONS

# SRNS Today



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## Dwayne Wilson

SRNS President and CEO



## Welcome to the November 2012 edition of "SRNS Today."



*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 [savannahriversolutions.com](http://savannahriversolutions.com).**

This month, we focus on service to our country, to our community and to our company. We have a long tradition of "giving back," as demonstrated in the stories in this issue.

The Savannah River Site recently saluted our armed forces veterans in ceremonies held Nov. 8. They serve because they love this country, and we enjoy the success and freedom of this nation because of their patriotism and devotion to duty. We owe them an everlasting debt of gratitude for their dedication and sacrifice.

Our ongoing service to the community is stronger than ever. SRNS employees recently raised \$1.17 million. The SRNS parent companies also provided an additional \$200,000, bringing the total to \$1.37 million. The funds have been distributed among 11 local United Way agencies. And in recognition of our company's support of the community, the Association of Fundraising Professionals—Greater Augusta Chapter honored SRNS with the Outstanding Corporation of the Year award on National Philanthropy Day. It's our privilege to serve the community and to see our contributions put to "good work." Please see the stories and photos on the next page for more details.

This month, we also highlight our employees "can do" approach to challenges. A team from our SRNS Fabrication Facility recently created a custom-made saw capable of removing the exposed portion of bolts located beneath radioactively contaminated water as deep as 30 feet in the SRS L Area Basin. They executed the job with safety foremost and solved the problem quickly with on-hand resources, thus saving time and funds. I applaud their ingenuity, and want you to know that this team is just one example of the many SRNS employees putting their knowledge to work every day for the company and the country. Please see the story on Page 4.

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



## SRNS employees raise \$1.17 million, parent companies add \$200,000 for UW



SRNS President and CEO Dwayne Wilson presents a \$200,000 corporate match check during the United Way celebration. Kristen Keen (left), Resource Development Specialist, Midlands United Way; LaVerne Gold, Executive President and CEO, United Way of the CSRA; and Candice Moyer, Director of Marketing, Aiken County United Way, show their support.

**SRNS employees are celebrating the raising of \$1.17 million** in donations for area United Way agencies during this year's SRNS Employee United Way Campaign, exceeding their goal by more than \$76,000. SRNS President and CEO Dwayne Wilson presented an additional \$200,000 to the campaign as part of a corporate match supported by SRNS' parent companies.

SRNS donation checks were presented by Tammy Rimes, this year's Chair of the SRNS Employee United Way Campaign, to United Way agency representatives. "It's inspiring. Here we are in the middle of a recession, with mounting financial pressure on nearly everyone, and our employees and retirees continue to step up and give from the heart," said Rimes.

Eleven local United Way agencies are designated to receive contributions from the campaign. Represented at the ceremony were Aiken, Allendale, Bamberg, Barnwell, Colleton, Edgefield, Hampton, Midlands, McDuffie and Screven counties, and the United Way of the CSRA.

## Honoring our veterans



## SRS Veterans Day

SRNS President and CEO Dwayne Wilson (right) greets U.S. Army Major General David E. Quantock, the guest speaker for the SRS Veterans Day ceremony held Nov. 8 in B Area at The WSI Team Aviation Operations Department helicopter hangar. The event included remarks by Zack Smith, DOE-SR Deputy Manager, and the Posting of the Colors by the Silver Bluff High School NJROTC Color Guard. In addition to honoring our veterans, the 237th birthday of the U.S. Marine Corps was also observed with U.S. Marine Corps Master Sergeant Leon Ransom, Jr., serving as guest speaker.



**Philanthropy Award** The Association of Fundraising Professionals—Greater Augusta Chapter honored SRNS with the Outstanding Corporation of the Year award on National Philanthropy Day. The United Way of the CSRA and the Shiloh Community Center in Augusta, Ga., nominated SRNS and its employees for providing philanthropic donations, time and talent to assist nearby communities. Pictured (from left) Judith Goodwin, Chapter President; Elizabeth Jones, Executive Director, Shiloh Community Center; Susie Ferrara, SRNS Corporate Communications; and LaVerne Gold, President and CEO, United Way of the CSRA.



# creative 'saw-lution'

||||| answers L Area challenge





Photo (left and on cover): SRNS Construction Millwright Craig Usher observes preparations for a mock-up demonstration of the submersible pneumatic saw at a simulated basin.

Photo (far left): The removal of bolts at the bottom of L Area Basin was required in order to create unobstructed space for additional spent fuel storage racks.

When recently faced with a need to remove numerous metal bolts from the floor of the Savannah River Site's L Basin, several employees in the SRNS Central Shops Fabrication Facilities stepped forward with a solution.

The team worked in the 717-F Fabrication Facility to create a one-of-a-kind, highly customized saw capable of removing the exposed portion of bolts located beneath radioactively contaminated water as deep as 30 feet. At times, and in certain areas, this task was accomplished while working under difficult lighting conditions and little clearance from surrounding submerged objects. The removal of the bolts was required in order to create unobstructed space for additional spent fuel storage racks.

"The team didn't call in design engineers, consultants or specialized saw vendors," said George Sewell, SRNS Construction Manager. "Instead, keeping safety as the top priority, they carefully examined all sides of the challenge, and quickly and creatively solved the problem using their combined experience, knowledge and on-hand resources."

According to Sewell, the end result was a pneumatic (air driven) band saw suspended from a long metal rod especially designed to ensure that the blade would cut close to the surface of the basin floor. "The ingenuity and work ethic of our employees continue to impress me," said Sewell.



## Community involvement



### Mobility-impaired hunters gather at SRS for annual deer hunt

Twenty-five mobility-impaired hunters from throughout the southeast and as far as Ohio, met Nov. 16 at the Savannah River Ecology Lab Conference Center to begin the twelfth annual "Deer Hunt for Mobility-Impaired Hunters" at SRS. Participants, chosen randomly through a lottery, are escorted by an experienced hunter who ensures their safety and provides assistance as needed. "This hunt is a unique opportunity for the physically-impaired hunters to be able to hunt in a safe, controlled environment," said Ed Spears, SRNS Deer Hunt Manager. SRNS manages the hunt and provides sponsorship along with the U.S. Department of Energy, the USDA Forest Service – Savannah River and the Wheelin' Sportsman National Wild Turkey Federation. The Rocky Mountain Elk Foundation provided feeder boxes to make the "still" hunt possible. Locating the boxes near hunting stands increases the number of deer moving within each hunter's location. According to SRNS Executive Vice President and Chief Operations Officer Fred Dohse, this program provides disabled hunters, year after year, with the opportunity to do something they love. "The volunteers work hard to ensure a safe, enjoyable and successful hunt," said Dohse.

Photo: SRNS Defense Programs employee Joel Bennett (left) escorts and assists Aiken resident Rex Lutz during this year's Deer Hunt for Mobility Impaired Hunters at SRS.



**SRNS donates to Aiken Technical College** SRNS President and CEO Dwayne Wilson, (right) presents a check for \$50,000 to Dr. Susan Winsor, President of Aiken Technical College (ATC). The donation represents a portion of \$150,000 pledged by SRNS over three years toward the construction of ATC's Center for Energy and Advanced Manufacturing. The Center will be used to train the region's workforce in the latest manufacturing technologies.

## NNSA completes milestones in plutonium disposition

**The National Nuclear Security Administration (NNSA)** has announced in a recent news release the completion of two milestones towards production of early plutonium oxide feedstock for its Mixed Oxide (MOX) Fuel Fabrication Facility (MFFF). In its second year in production, NNSA exceeded the FY 2012 goal of 200 kilograms of plutonium oxide production by disassembling nuclear weapons pits and converting them into plutonium oxide at Los Alamos National Laboratory (LANL). NNSA also initiated operations at H Canyon and HB Line at SRS to begin plutonium oxide production. The oxide production at both LANL and SRS provides the initial feedstock for the MOX facility and demonstrates the first steps towards permanent plutonium disposition.

"The progress achieved at LANL and SRS in support of plutonium disposition demonstrates the benefits of utilizing existing facilities in support of NNSA's efforts to eliminate surplus weapons plutonium," said NNSA Administrator Thomas D'Agostino. The disassembly, conversion and certification, which were completed at LANL, are significant accomplishments in an ongoing effort to safely dispose of surplus weapon-grade plutonium.

SRNS initiated repackaging and dissolution of the non-pit plutonium material in H Canyon this month. The H Canyon Complex will eventually provide approximately 3.7 metric tons of plutonium oxide feedstock for the MFFF from the excess defense plutonium currently stored at SRS.

Under an agreement between NNSA and the Department of Energy's Office of Environmental Management (EM), the SRS H Canyon and HB Line, which are EM facilities operated by SRNS, will process plutonium to meet the specifications for use in the MOX facility. Use of HB Line and H Canyon takes advantage of the extensive plutonium experience among the SRNS's staff and allows for the conversion of this plutonium into feed material that will be readily available for the MOX facility's first years of operation. The successful startup of the dissolution process is a key milestone in preparing the materials for conversion to MOX fuel.

## SRNL joins with PNNL in “unique arrangement” to aid Japan’s TEPCO

**For the Savannah River National Laboratory’s Dr. Jeff Griffin**, the Fukushima Daiichi Nuclear Power Station represents “almost every remediation challenge we’ve seen in the Environmental Management complex, all within three and a half square kilometers.”

SRNL’s Griffin, along with Pacific Northwest National Laboratory’s Wayne Johnson, are leading a joint SRNL and PNNL effort to provide the Tokyo Electric Power Company (TEPCO)—owners of the tsunami-damaged plant—with recommendations related to many of the highest priority technical issues associated with the initial cleanup process in the aftermath of the March 2011 earthquake and tsunami.

SRNL and PNNL have a contract with TEPCO that grew out of a series of discussions and visits in 2011-12. Most recently, Griffin and Johnson and a joint technical team visited Japan in late October to get an additional look at conditions at the facility, and to begin to develop recommendations in seven overall areas. The SRNL and PNNL collaboration offers a portal for TEPCO to access broad science and technology talent made available throughout the entire DOE national laboratory system. The two laboratories have significant experience in nuclear facility decontamination and decommissioning from nuclear material production remediation and cleanup efforts.

The seven primary areas of emphasis for the Labs are: control of groundwater; grouting; sample analysis and laboratory capability; waste treatment and disposition; water treatment; fuel debris; and, community revitalization. A formal report to TEPCO is expected after the first of the year.

“It’s been particularly gratifying to see the tremendous progress being made despite the very difficult operating environment the workers face on a daily basis,” said Johnson, Division Director, Earth Systems Science, for PNNL. “Being able to bring to bear our collective waste management and environmental remediation capabilities and experiences on such an important global challenge is both satisfying and rewarding.”

“This is a unique arrangement for national labs to provide this level of international assistance,” added Griffin. “From our experience at our respective sites, we and PNNL have a wealth of relevant knowledge about possible options, and an important part of our mission as national laboratories is the sharing of that knowledge within the global community in what is clearly an unprecedented situation.”



“The Fukushima Daiichi Nuclear Power Station represents almost every remediation challenge we’ve seen in the Environmental Management complex, all within three and a half square kilometers.”

**Dr. Jeff Griffin**



### SRNL researcher wins chemical society award

*Dr. Chris Bannochie, an SRNL researcher, has been named the winner of the E. Ann Nalley Award for Volunteer Service by the American Chemical Society (ACS) southeast region.*

*The award was established in 2006 by Dr. E. Ann Nalley, Past President and Director of the American Chemical Society, to honor the volunteer efforts of individuals who contribute to the goals and objectives of the Society.*

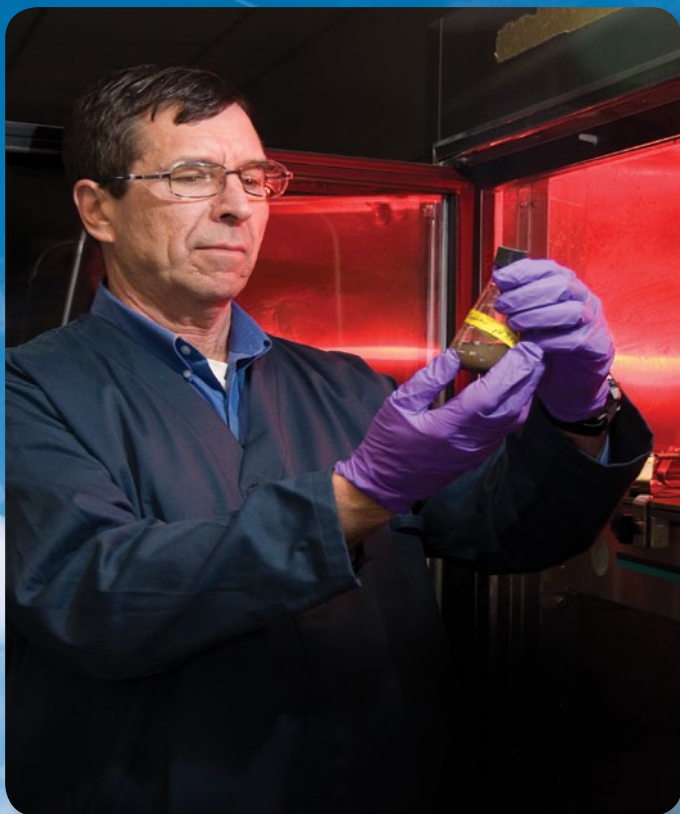


**Dr. Chris Bannochie**

*Dr. Bannochie’s contributions include 20 years of service and mentoring activities within the Savannah River Local Section; 17 years of service as an ACS Councilor, where he currently serves as Chair of the Subcommittee on Public Policy for the ACS Committee on Science; past service as Board Chair of SERMACS, Inc. (the Southeastern Regional Meeting of the American Chemical Society), where he was instrumental in developing a brand identity for the region and establishing and standardizing the Nalley Award across the Society. He currently serves as Immediate Past Chair of the ACS Division of Professional Relations.*

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