

CNTAware

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2015 GOLF TOURNAMENT REVIEW

CNTA hosted their 13th annual golf tournament on May 8 at Houndslake Country Club. Twenty five teams played in the tournament. Winners were as follows:

1st Gross – Centerra-SRS: Mark Bolton, Dale Kendrick, John Arnold, Rob Davis.

1st Net - CB&I AREVA MOX Services: Mike Zustra, Rodney Whitley, Shane Steele, Charles Nickell.

2nd Net – SRS Community Reuse Organization: Rick McLeod, Tad Barber, Donnie Campbell, Mike Coleman.

3rd Net – Longenecker & Associates: Clay Ramsey, Don Blake, Terry Montgomery, Shayne Farrell.

Closest to the Pin Winners: Ruel Waltz (SRNS); Craig Baynham (SRNS); Reggie Minnigan (SN3); Patrick

Gardenhire (Security Federal Bank).

Main event sponsors were B&W Technical Services, Savannah River Nuclear Solutions, SN3 (Stoller Newport News Nuclear) and CB&I AREVA MOX Services. Hole sponsors were Centerra-SRS, EnergySolutions, Longenecker & Associates, SRS Heritage Foundation and Trophies Unlimited.

The tournament would not have been a success if not for our volunteers. Thank you to Melinda (Mindi) Adams, Josh Booth, Kim Cauthen, Lyddie Hansen, Frank Heckendorn, Joyce Hopperton, Amy Merry, Sara Padgett, John Pavaglio, John Pearson, Marla Pearson, Wayne Rickman, Kim Saxon, Tracey Sillito, Owen Stevens, Brad Swanson and Jim Tisaranni. Please accept our apologies if we missed someone.

As many of you know, Ron Schroder from Savannah River Nuclear Solutions has been our emcee and tournament coordinator for many years. Ron has relocated to Magnox so we had to find a replacement. Byron Bush agreed to help us out and he did a wonderful job. Thanks Byron!!



Next year's tournament is tentatively scheduled for Friday, May 6; the Friday of Mother's Day weekend. Our plans are to work on the tournament at the start of the year so that we have more time to secure gifts and to avoid shirt delivery problems. More information will follow at a later date. Additional golf tournament information is located inside.

1ST, 2ND, 3RD PLACE WINNERS



1st Place Gross



1st Place Net



2nd Place Net



3rd Place Net

HIGH SCHOOL ESSAY CONTEST WINNERS

The 2015 high school essay contest had 38 entries with three winners receiving recognition. Essay submissions were received from seven high schools in four counties from South Carolina and Georgia. Twenty juniors and eighteen seniors submitted essays to the contest. Students chose from three topics: "Discuss the Role of Nuclear Energy in Providing Electricity to the 2 Billion People Worldwide Who Need It, Without Increasing CO² Emissions"; "Discuss the Expanding Role of Different Isotopes in Nuclear Medicine. Please include the importance of both isotope origin and ensuring an adequate, stable supply."; "Describe How Japan Compensated for Shutting Down Their Nuclear Power Plants after the Earthquake and Tsunami in March 2011. Please address the technology choices for producing replacement power, their economic comparisons to nuclear generated power, and the overall impact on Japan's economy". Each winner received an award of \$1,000 while their high school received an award of \$500. Thank you to the essay evaluation committee for their support in grading the essay. A special thank you to our three sponsors for their monetary donations that make this all possible.

2015

GREENBRIER HIGH SCHOOL WINNER



CALEB DIPRETE
Senior
"The Answer to the World's Energy Problem is Nu-Clear"

NORTH AUGUSTA HIGH SCHOOL WINNERS



KIANA FRANKLIN
Junior
"Medical Miracles: Isotopes in Nuclear Medicine"



DANIEL DAVIDSON
Junior
"An Illuminating Hope, Even in the Darkest Threat"

All the essays can be read at the CNTA website...www.c-n-t-a.com under Events, High School Essay Contest ...check out what these young students wrote about. Congratulations to the Winners!!

Up & Atom Breakfast Speakers



David Moody

Manager, US DOE Savannah River Operations Office—SRS

“SRS Setting the Success Standard for our Nation”

April 29, 2015



Eugene S. Grecheck

ANS President-Elect

“Challenges and Opportunities: Nuclear Technologies and ANS”

June 1, 2015

(Co-sponsored with ANS-SR)



Photo Unavailable

Mike Zustra

VP ES&H, CB&I MOX

“Status of Plant Vogtle and VC Summer New Build Projects”

June 16, 2015

Bobby Wilson

Senior VP CB&I PSG

Reducing the Greatest Risk to South Carolina Needs Federal Funding

by Karen Patterson

The Governor’s Nuclear Advisory Council is charged with monitoring the progress of waste disposition activities at the Savannah River Site. Given the federal budget the task is akin to watching a mountain erode. So, real progress in dispositioning waste is something to celebrate. Thanks to perseverance, creativity, and cooperation by Department of Energy and its contractors, Parsons and Savannah River Remediation, South Carolina finally has something to celebrate -- the ability to vitrify all the liquid radioactive waste left from the Cold War, thus eliminating the risks of that waste to South Carolina.

The Salt Waste Processing Facility is within a year of being completed and the total cost will be well below the original 2001 budget estimate! Once construction is done, Parsons will spend another 18 months or so testing the facility before actually processing radioactive waste. By 2018 all the SRS facilities needed to process the Cold War radioactive waste should be doing just that. At last radioactive waste which has been accumulating since 1955 can be vitrified into an inert glass and encased in stainless steel, a configuration that will endure towards eternity.

The bottom line is that in the near future the radioactive waste stored in leaking 50-year-old underground tanks and characterized by the South Carolina Department of Health and Environmental Control as the “greatest environmental risk to South Carolina” could be eliminated.

However, there looms a very large chance that the waste will remain in the leaking tanks for additional decades – for reasons that are political, not technical. The budget Congress allocates to the SRS

is woefully insufficient to process this waste. SRS never criticizes their budget, however, under careful questioning, one hears that the budget is “adequate” but that much more could be done with additional funding. For example, right now, the Defense Waste Processing Facility is operating at approximately 25% of its capacity. The reason: minimal funding. SRS expects the Salt Waste Processing Facility will have to settle for similarly minimal funding and similarly limited operational capabilities. Thus extending the risk to South Carolina by decades, and increasing the life cycle costs, as well.

Other DOE sites also have wastes that need stabilization, but they are not even close to getting their facilities up and running, yet those projects get more federal dollars than SRS. I am of the opinion that it would be more efficient, and entail smaller life cycle costs all around, to fully fund the SRS waste disposition program until all the SRS waste is vitrified, and then move those federal dollars into the other, lagging programs. For that to happen the citizens and elected officials at all levels of our government need to make it clear to DOE and Congress that we expect much more funding that Congress has, so far, been willing to put into the SRS.

SRS has done its job – it has gotten an entire waste processing system working to immobilize dangerous radioactivity. It is up to us, the citizens of South Carolina, to ensure that Congress understands that we expect these amazing facilities to be fully funded, so we at last can say that the “greatest environmental risk to South Carolina” no longer exists. Karen Patterson is the Chair of the South Carolina Nuclear Advisory Council.

Rickman named Volunteer of the Year

By Larry Wood
lwood@aikenstandard.com

Before he became a coach and then a teacher with the McGrath Computer Learning Center, Wayne Rickman, who was named the organization's Volunteer of the Year on Thursday, took classes as a student to learn the software used with his digital camera.

Rickman, a volunteer for 12 years, had taken his new camera, his first digital, on a trip to France and wanted to learn what to do with all the photographs he took.

His friend Will Hills, who has been a volunteer for 16 years, suggested he take a course at the center, which provides adults in Aiken and surrounding communities with classes and seminars to improve their skills and knowledge in using personal computers and tablets.

"Having been a consultant, I was reasonably proficient with computers, so they asked me to coach and then to teach," Rickman said.

Rickman has taught many basic courses and also created a Facebook class.

"I would highly recommend to anyone who would like to learn about computers or iPads or tablets to look us up. We provide a real service for the community," Rickman said.

The center is open to all adults, but its services might be especially helpful for seniors, according to Rickman.

Managed by more than 60 volunteers who coach students and teach classes, the Learning Center offers adults a low-cost, friendly introduction to using computers.

"We used to teach only senior citizens, but now we are open to all adults," said Carolyn Heh, the president of the organization. "We teach computer skills from very beginners, someone teaching you how to turn a computer on, to advanced students learning Excel, Word, Windows and other software. We even teach mousing skills."

Prices for courses vary.

The center holds an open house before each term for students to register for courses, get advice on what classes to take and meet the coaches, instructors and other new students.

Previously affiliated with SeniorNet, a nonprofit organization that specializes in computer and Internet education for older adults, the McGrath Computer Learning Center incorporated in January to offer its own curriculum, courses and training.

The center is located at USC Aiken and is affiliated with its Office of Continuing Education but is an independent organization operating under this affiliation. More information about the center and course schedules and descriptions is online at www.mcgrathclc.com and www.facebook.com/mcgrathclc.

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The McGrath Computer Learning Center, affiliated with the Office of Continuing Education at USC Aiken, honored volunteers at a luncheon Thursday. Longtime volunteers include Wayne Rickman, 12 years, who also received the Volunteer of the Year award; Dave Emory, 16 years; Will Hills, 16 years; Geraldyn Bradham, 15 years; Lynn Mullins, 16 years; and Sara Wampole, 15 years.

MOX raised nearly \$60,000 for Children's Place

By Derrek Asberry
Staff Writer—Aiken Standard

The contractor for the Savannah River Site's MOX project is best known for constructing a facility to help dispose of weapons-grade plutonium. But recently, the contractor showed it has other investments and interests in the Aiken community.

Over the past several weeks, employees, friends and family members of the CB&I AREVA MOX Services team raised \$57,300 for Children's Place, the largest donation amount ever raised by the company.

MOX Services raised the money through a series of events, including its well-known Celebrity Waiter Night. The event annually brings "celebrities" from across the Aiken area to wait tables in many local restaurants, such as Grumpy's Sports Pub and Travinia's Italian Kitchen.

Other events include a barbecue lunch at the Savannah River Site and the MOX Children's Place golf tournament at Woodside Plantation Country Club. The MOX contractor has also participated in fundraisers such as bake sales, lunches and a silent auction.

MOX employees also generously donated "Wish List" items to Children's Place, including blankets, toiletries and art supplies.

"I am so proud of our employees and staff this year for their efforts to provide Children's Place with such a record-setting donation," said David Del Vecchio, president and project manager for the MOX project.

Del Vecchio served as a Celebrity Waiter Night host this year, and said the group's effort is "a testament to our people and their generosity that makes such a difference to this worthy cause year after year."

Children's Place is a child and family development center serving at-risk children in Aiken County. MOX has raised funds for the charity for the past eight years.



Savannah River Remediation Records Multiple Safety Milestones

Savannah River Remediation (SRR) achieved three significant milestones to add to its excellent safety record, including a recertification and two streaks of consecutive days of safe work.

SRR earned a recertification as a Voluntary Protection Program (VPP) STAR site after a two-week comprehensive review of its programs, employees, facilities and operations through observations and interviews. The VPP recertification is a review held once every three years by a six-person team from the Department Of Energy – Headquarters Health, Safety and Security Division. SRR earned its first certification in 2011 and has held VPP STAR certification since 2000 as the previous contractor, Washington Savannah River Company.

Also, the SRR Construction workforce recently achieved 27 million consecutive hours of work without an injury or illness resulting in a missed day. The streak has run for more than 16

years without a days-away case, dating back to June 1998. According to the latest industry statistics for safety by the Bureau of Labor Statistics, the average construction organization would have experienced 202 days-away cases in the span of 27 million hours.

Another safety milestone was recently reached when the entire SRR organization and its subcontractors worked over two years without an injury resulting in lost work. This milestone demonstrates SRR's continuing commitment to safety in the workplace. This period represents 9.5 million consecutive hours of safe work.



SRS Breaks Ground for New Heating Plant at Biomass Cogeneration Facility

Senior officials from the U.S. Department of Energy (DOE), U.S. Representative Joe Wilson (SC-2), and Ameresco, Inc., (NYSE:AMRC) gathered for a ceremonial groundbreaking to mark the start of a new project for a biomass heating plant that will increase critical steam security and provide additional green power at DOE's Savannah River Site (SRS). The new biomass plant represents a subsequent modification (Phase II) to DOE's original Energy Savings Performance Contract (ESPC) executed in 2009 for construction of the 20 megawatt (MW) biomass cogeneration facility currently operated and maintained by Ameresco at SRS.

U.S. Representative Joe Wilson (R-SC); Dr. David Moody, DOE-SR Manager; and George Sakellaris, Ameresco President and Chief Executive Officer, participated in today's project groundbreaking that promotes clean energy initiatives and efficiencies.

"The DOE/Ameresco Project Team have done a tremendous job since the inception of the SRS Biomass Cogeneration Project and this additional modification will add to the success," said DOE Savannah River Manager Dave Moody. "The SRS Biomass Cogeneration Facility supports the Department's energy efficiency goals and this second plant will further advance our progress to meet national challenges in strategic areas like sustainability and clean energy."

"I'm grateful to join DOE and Ameresco today to break ground on the Biomass Heating Plant at the Savannah River Site," said U.S. Representative Joe Wilson. "This new facility will produce a steady and reliable source of steam for SRS, provides essential support to the ongoing critical national security and environmental clean-up missions, and will create 50 construction jobs in the process. Ameresco is a shining example of how the Energy Savings Performance Contracts can save taxpayer money while producing green energy. For the past five years, I've been humbled to work closely with Ameresco. I congratulate them on launching a new phase of their operations and I am grateful for their creation of jobs in the Aiken-Barnwell community."

"Partnering with the U.S. Department of Energy, the Savannah River Site, the State of South Carolina and our local and regional partners, we've built an award-winning, large-scale sustainable power resource that will provide even greater long term value as a result of the steam plant modifications," said George P. Sakellaris, President and Chief Executive Officer of Ameresco. "This innovative follow-on project at the SRS Biomass Cogeneration Facility, funded by our ESPC,

is an ongoing example of how public-private partnerships can continue to create transformative energy infrastructure for the 21st Century and beyond."

The new plant will be located in the southeast corner of the existing 35 acre Ameresco site. The heating plant will include a new biomass fueled boiler and relocation of the existing package boiler to a new enclosed building. Ameresco also will install a new truck tipper and fuel handling system to facilitate the biomass deliveries. The steam produced from the new plant will be supplied throughout SRS's existing distribution system. Providing steam from this new plant, will allow for the existing biomass cogeneration facility to direct more steam to the turbine generator resulting in approximately 3-4 MW of additional power for SRS.

During its first three years of operation the existing biomass facility has generated approximately 5.8 billion pounds of steam, over 1,400 million pounds of steam exported in support of Site operations, and over 330,000 MW of electricity.

Under the ESPC modification, Ameresco will provide turnkey Operations and Maintenance (O&M) services for the new plant and equipment over the 20-year performance period of the contract. Ameresco also will purchase additional woody biomass from local and regional providers to support the new plant's operations. Construction on the project is expected to begin in June, and the plant is scheduled to be operational in the spring of 2016. The existing biomass cogeneration facility will continue its normal operations during construction of the new plant.

ESPCs are contracts in which private companies finance, install, and maintain new energy- and water-efficient equipment in federal facilities. The government pays no up-front cost, therefore saving taxpayer dollars, and the company's investment is repaid over time by the agency from the cost savings generated by the new equipment. This allows the government to use the private sector to purchase more energy-efficient systems and improve the energy performance of their facilities at no extra cost to the agency or taxpayers.



SRNL's Dr. Brenda García-Díaz Honored for Research Excellence



The Savannah River National Laboratory's Dr. Brenda García-Díaz has been honored by the South Carolina Governor's office as the recipient of the 2015 Young Researcher Award for Excellence in Scientific Research.

The award was presented March 25 by South Carolina Lieutenant Governor Henry McMaster in a program at the state capitol.

Dr. García-Díaz joined SRNL in 2007 after receiving a doctorate in chemical engineering from the University of South Carolina. Prior to moving to South Carolina, she received both her B.S. and M.S. degrees from the University of Puerto Rico-Mayagüez.

During her time at SRNL, her wide-ranging research assignments have included modeling and experimentation for safe storage and closure of high level waste tanks; materials research for alternate and renewable energy; accident tolerant nuclear fuel research; hydrogen storage research, and other materials-related activities.

Most notably, she has served as a lead investigator on an SRNL-led team (working with the Universities of South Carolina and Alabama) that won a three-year research grant through the Department of Energy's SunShot Initiative, a national effort to make solar energy more cost-competitive. The project is identifying how new, corrosion-resistant materials and strategies can contribute to a higher efficiency solar energy carrier system.

In his official letter of nomination, SRNL Director Dr. Terry Michalske referred to García-Díaz as "an exceptionally strong research engineer with high-impact accomplishments." "Within her short seven years at Savannah River National Laboratory, she has made a strong impression on other researchers and the SRNL management team through the breadth and technical quality of her work, earning the respect as a team lead from both our junior staff and senior technical staff," said Michalske. "Her engaging and gregarious personality brings excitement to our research staff. She has a record that proves her to be an effective technical researcher and manager, and an emergent leader in our laboratory. She is clearly deserving of this recognition."

In addition to her research activities, García-Díaz has taken an active role in mentoring and counseling high school and college students who are interested in science and math. She currently serves on the external advisory boards for the Chemical Engineering Department at the University of South Carolina and is the local chapter president for ASM International, a professional society for materials engineers.



Vogtle 1.3 Million-Pound Unit 3 Steam Generator Arrives from South Korea

Staff Report From Augusta CEO

Monday, June 15th, 2015

Georgia Power announced today the latest major international shipment to reach the Vogtle expansion site near Waynesboro, Ga. – the Unit 3 Steam Generator A. The steam generator, which was assembled in South Korea and shipped to the Port of Savannah, reached the site via train earlier this week. The steam generator is the latest international delivery illustrating the global supply chain in place supporting the first new nuclear units built in the United States in more than three decades.

The 1.3 million-pound, or 650-ton, steam generator is 82-feet long and is the second delivered to the site this year for Unit 3. Steam generators are heat exchangers used to convert water into steam using the heat produced in a nuclear reactor core. There are two steam generators per unit in the AP1000 design.

In addition to the steam generator, the pressurizer for Unit 4 was delivered to the site in late May. The 225,000-pound pressurizer was fabricated in Italy. The pressurizer provides a point in the reactor coolant system where liquid and vapor are maintained in equilibrium for pressure control.

The expansion at Plant Vogtle is part of Georgia Power's long-term, strategic vision for providing safe, clean, reliable and affordable energy for Georgians well into the future. Once Units 3 and 4 join the existing two Vogtle units already in operation, Plant Vogtle is expected to generate more electricity than any U.S. nuclear facility, enough to power more than one million homes and businesses.

Nuclear Science Week October 19-23, 2015

Nuclear Science Week is celebrated annually across the United States. It is a week-long educational opportunity to focus local, regional and national interest on all aspects of nuclear science.

The SRS Community Reuse Organization and its affiliated Nuclear Workforce Initiative are collaborating with local organizations to conduct activities designed to encourage and bring awareness of nuclear technology and the many careers available within nuclear technology and other high-tech industries.

Regional activities include Education Days, STEM Career Connections Day, Site Visit Days, Teller Lecture, Other Activities, Educator Activities, Community Activities. Additional information can be found on the websites, www.nwinitiative.org and www.nuclearscienceweek.org.



Nuclear Science Week

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Thank You!
Thank You!



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SRS Community Reuse Organization	
Applied Research Center (ARC)	
Economic Development Partnership	

2015 Members Plus

Sally Benjamin
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Thank You!
Thank You!



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MEMBER PLUS—\$250
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BENEFACTOR—\$125.00
BEST VALUE! Members receive one Teller Lecture banquet ticket w/reserved seating and one ticket to the private Speaker's Reception; invitations to all events, quarterly newsletters and FREE membership mixers.

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