

Questions? Contact us at 803.952.9584.

Welcome to the September edition of the "SRNS News."

September is a very busy time of year at SRS as we bring the fiscal year to a close and launch our projects and activities in the new year. We have accomplished a great deal during FY 2010. We've made tremendous improvement in site operations; vastly enhanced site business systems, and brought our information technology up to much of today's commercial standards. I'm proud of that and hope you are too – it leads to building a foundation for the future that is important to us and to you.



A message from  
Garry Flowers  
SRNS President and CEO

While it's difficult to choose one particular accomplishment, the recent agreement between SRNL and Hyperion Power Generation, Inc. is noteworthy. I hope you'll read more about this partnership that potentially could bring a small modular reactor to SRS. This is just the first of several public-private partnerships we plan to announce. We are very pleased to be collaborating with some of the nation's leading experts in advancing reactor technology and hope it will play prominently in the future of our company and our site.

One of my key commitments to you is to aggressively pursue new missions with the Department of Energy to build a sustainable future for SRS and be a long term partner in this community. In the process, we'll create value for our customers, our employees, our communities and our parent companies.

To achieve that, we have to be better today than we were yesterday. That's our goal everyday. I hope we're meeting your expectations in communicating our company's programs and activities through this newsletter. I'm always interested in your feedback.

I hope you enjoy our September issue. We are looking forward to another rewarding year at SRS.



**MARKING A STELLAR PERFORMANCE!**

SRNS was awarded DOE's Voluntary Protection Program's coveted "Star Status" for excellence in safety on September 15 at the Integrated Safety Management Workshop. See Page 2 for more on the workshop.

# SRNS news

SAVANNAH RIVER NUCLEAR SOLUTIONS



## SRNL, Hyperion sign strategic agreement Partnership aims to deploy small modular nuclear reactor

Savannah River National Laboratory (SRNL) and Hyperion Power Generation Inc., have announced an agreement that could lead to deployment of a small modular nuclear reactor at the Savannah River Site (SRS).

The agreement was signed by John R. (Grizz) Deal, Chief Executive Officer and co-founder of Hyperion Power, and Garry Flowers, President and Chief Executive Officer of SRNS. SRNS operates SRNL under contract to DOE.

"This is one of the first in a series of steps that can put this region in an active role toward transforming America's energy future," said Flowers. "Small and modular reactors can become the primary base of



Pete Knollmeyer, SRNS Vice President for Strategic Planning, and Dick Govers, Director of the Hyperion Power Program Office, speak at the news conference held to announce the agreement between SRNL and Hyperion.

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## SRS hosts 2010 DOE Integrated Safety Management Champions Workshop

More than 1,000 attendees from across the DOE complex participated in the SRS-hosted DOE 2010 Integrated Safety Management (ISM) Champions Workshop, held Sept. 13-16 in Augusta.

ISM Champion, Dr. Pat Worthington, Director, DOE Office of Health and Safety,



along with Jack Craig, Acting Manager, DOE-SR, and Kevin Hall, Deputy Manager, Savannah River Site Office, National Nuclear Security Administration, were masters of ceremonies. The workshop was sponsored by the DOE Savannah River Operations Office and NNSA-SRS Office, and was supported by Savannah River Nuclear Solutions; Savannah River Remediation; Shaw/Areva MOX Services, LLC.; Parsons; WSI-SRS Team; USDA Forest Service - Savannah River; and the Savannah River Ecology Lab.

Themed "Pathways to New Missions," the workshop featured a full schedule of activities, speakers, and presentations. Among the dignitaries in attendance were Dae Chung, Principal Deputy Assistant Secretary, DOE Office of Environmental Management; Colonel Arthur J. Athens, Director of the U.S. Naval Academy's Vice Admiral James B. Stockdale Center for Ethical Leadership; and Glenn Podonsky, DOE Chief Health, Safety and Security Officer. A featured speaker was Admiral James Ellis, Jr., President and Chief Executive Officer of the Institute of Nuclear Power Operations. Workshop attendees then had the opportunity to select any of nine topical tracks of their preference for a full-day of panel discussions, vendor displays and poster sessions on innovations, lessons learned, and technological advances in the area of safety.

"Family Night" at ISM was a lively evening of fun and safety education for workshop attendees, SRS employees and their families. The evening ended with internationally known speaker Billy Robbins sharing his personal safety stories.



The SRNL glass blowers demonstrated their craft at the ISM workshop.

## Family Night at ISM



Young visitors to the ISM Family Night tried out technology and treats.





## FY10 A year of operational success for SRNS

**In fiscal year 2010, SRNS saw outstanding operational success stories, ranging from significant progress in American Reinvestment and Recovery Act activities to collaborations with the FBI and Hyperion Power. We'd like to share just a few of our success stories with you.**

- Achieved VPP Star of Excellence and Legacy of Stars status.
- Updated business systems and information technology
- Expanded SRNL FBI evidence examination facility
- SRNL agreement with Hyperion Power Generation to explore bringing small modular reactor technology to SRS
- Waste Solidification Building construction is 43 percent complete
- American Reinvestment Act & Recovery Act work is 44 percent complete
- H Canyon and HB Line met all major milestones while reducing direct facility costs by five percent
- H Canyon accelerated disposition of transuranic waste, repackaging 820 cubic meters of transuranic waste into 250 certified waste containers
- H Canyon dissolved 624 kgs of high enriched uranium metal which was blended down to 23 low enriched uranium trailers that were shipped to the Tennessee Valley Authority
- L Area received domestic and foreign used nuclear fuel from several reactors, including a shipment from Chile, which was the first time used fuel of non-US origin was shipped to the US. Four domestic sites and five foreign countries shipped 595 fuel assemblies for storage in L Basin.
- K Area continued safe storage and receipts of surplus plutonium and high enriched uranium in support of DOE complex-wide deinventory efforts
- Ameresco project support for new Biomass Co-generation facility
- K Cooling Tower demolition
- Grouting at P Reactor is 85 percent complete
- Made 82 shipments of transuranic waste to the Waste Isolation Pilot Plant
- Evaporated approximately four million gallons of water from the P Reactor Disassembly Basin



*Photos from top:  
P Reactor grouting; H Canyon  
transuranic waste activities;  
FBI laboratory ribbon-cutting;  
VPP Legacy of Stars award.*



## Thousands attend College Night

Over 7,000 attendees met with representatives from 169 colleges, universities and professional societies on Sept. 14 at the CSRA College Night.

Since it was started in 1993 by the Savannah River Site, CSRA College Night has become a cooperative effort among SRNS, DOE, business and industry, local private schools and professional societies. One of SRNS's Educational Outreach programs, the event is planned, organized and executed through a committee chaired by SRNS.

The annual event provides an opportunity for high school students, parents and guidance counselors to learn about education opportunities available from accredited universities and colleges from across the U.S.

During College Night, \$15,000 in scholarships was awarded to 15 local students through a drawing. "We congratulate all the scholarship winners. They are just some of the many students we hope to assist in planning for their future academic careers," said Barbara Smoak, SRNS Education Outreach Manager.



SRNS President and CEO Garry Flowers congratulates D'Marious Taylor on winning one of the 15 scholarships awarded on CSRA College Night.

## Super Safe Saturday promotes a lifetime of safety for children

Volunteers from SRNS participated in the first Super Safe Saturday event on September 18, 2010, at the H. Odell Weeks Recreation Center in Aiken. The volunteers provided fun, interactive, and educational activities on safety-related topics for kids of all ages. SRNS also coordinated the participation of other organizations from the Savannah River Site. The purpose of the event was to provide a free fun, informative and interactive "kid friendly" event designed to promote safety, a healthy lifestyle and the prevention of unintentional injury to children ages 1-14.

## SRNL, Hyperion agreement

► *Continued from Page 1*

new, clean power for the world. SRS is an ideal place to develop and demonstrate this exciting technology. Our research may help the U.S. be a global clean energy leader and assist in achieving an important goal of the Obama Administration for U.S. energy independence," Flowers said.

Hyperion Power is developing a "mini" nuclear power reactor referred to as the Hyperion Power Module, which produces 70 megawatts of thermal energy. Connected to an electricity generating system, the thermal energy produces 25 MW – enough to power a U.S. military base.

The reactor vessel itself is about the size of a refrigerator and buried below grade for an extra measure of security. The complete plant, including the electrical generation system, takes up less than an acre. The two companies believe the reactor's compact size and high power density and inherent safety are among its biggest assets.

The signed Memorandum of Understanding envisions collaboration with DOE on an array of technical and policy issues. The MOU also envisions funding provided largely by private sources.

Dr. Terry Michalske, the newly named Director of SRNL, will coordinate the Lab's participation. "SRS has a unique combination of laboratory expertise, infrastructure, safety culture, location and other factors that make this a natural fit," said Flowers. "This is another logical way to maximize the nation's return on 60 years of investment in SRS."



## Raising the Steaks



Eighteen SRNS senior staff members became “Celebrity Waiters” and served customers at the annual Outback “Raising the Steaks” dinner to raise money for the SRS United Way campaign. The event was a sell-out with ticket sales totalling nearly \$5,000. In addition, the talented wait staff raised over \$1,700 in tips.

## Teacher of the Year



SRNS was the title sponsor for the 2010-2011 Aiken County Teacher of the Year Banquet on September 13, 2010. Chris Gentile, SRNS Vice President of NNSA Programs, presented the winner, Nikki Mock, with a Dell laptop computer. Ms. Mock is a fifth grade teacher at Hammond Hills Elementary School in North Augusta. Teachers representing 40 schools from Aiken County were honored as the “best of the district.”

## North Augusta AM Connection



Lee Smith, CEO of The Community Foundation of the CSRA, speaks with Garry Flowers at the North Augusta Chamber of Commerce's AM Connection monthly breakfast. Mr. Flowers was the keynote speaker for the event.

## Salkehatchie Theatre



SRNS Vice President Clif Webb presents a contribution of \$30,000 to Dr. Ann Carmichael, Dean of USC Salkehatchie for restoration of the USC Salkehatchie theatre. SRNS recently announced a \$90,000 donation over three years for the project. Pictured from left to right are: Anne Rice, Executive Director of the USC Salkehatchie Leadership Institute, Dr. Ann Carmichael and Mr. Webb.



## K Cooling Tower project reaches completion

One of the most visual milestones of cleanup projects under way within the Department of Energy's Office of Environmental Management was the demolition of the K Reactor Cooling Tower at the Savannah River Site (SRS).

Now, this American Recovery and Reinvestment Act project has been completed one month ahead of schedule, with debris from the implosion safely hauled away and deposited in an on-site landfill. With project completion, a great safety achievement was realized.

"We've had about 20,000 miles of various kinds of trucks and other vehicular traffic on-site just connected with debris removal with no traffic incidences at all," said Dewitt Beeler, manager of the SRNS Solid Waste Facility. "Of course, on a job like this, one of the things that you worry about the most is vehicle and transportation safety."

To complete the project, more than 800 tons of reinforced steel from the structure were sent to a local scrap metal recycler. This recycling effort also helped to stimulate the local economy beyond the SRS Recovery Act Project.

"With each completed Recovery Act project, we are closer to reducing the legacy environmental cleanup footprint and reaching our goal of 75 percent by the end of 2012," said Jack Craig, DOE's Savannah River Operations Office Acting Manager. "SRS continues to prove that the Recovery Act is working to clean up the site and do it safely."



*The remains of the K Cooling Tower resemble an archeological site after SRS Recovery Act workers safely complete the project one month ahead of schedule.*



*SRS Recovery Act workers (above) used heavy equipment to remove the rubble of K Cooling Tower while sorting more than 800 tons of reinforced steel for recycling. (At right) K Cooling Tower was imploded on May 26, 2010 as part of the SRS Recovery Act Project.*

