

CELEBRATING THE WEEK OF

NUCLEAR SCIENCE

OCTOBER 14-18, 2019



Education Days
Information



STEM Career
Connections®



Site Visit Days



Annual Edward
Teller Lecture &
Banquet



Other Activities



Educator
Activities
Throughout the
Year



Community
Activities
Throughout the
Year



Local High-Tech
Training
Opportunities

Come Explore Nuclear Science!

Nuclear Science Week is an international, broadly observed week-long celebration that focuses on all aspects of nuclear science. Events

SRS Community Reuse Organization and its affiliated Nuclear Workforce Initiative® are collaborating with local organizations to

during this week will provide many learning opportunities about contributions, innovation and careers that can be found by exploring nuclear science. #nuclearsciweek

conduct activities designed to encourage and bring awareness of nuclear technology and the many careers available within nuclear technology and other high-tech industries.

SEE **POSTER** CELEBRATING 2019 NUCLEAR SCIENCE WEEK CAREER FOCUS

VIEW **FLYER** ON 2019 NUCLEAR SCIENCE WEEK REGIONAL EVENTS



Monday, Tuesday, Wednesday, Thursday, Friday October 14, 15, 16, 17, 18, 2019

Where:

Ruth Patrick Science Education Center – University of South Carolina Aiken

Who:

Middle and high school students

What:

Center of the Atom (*An Investigation of Protons, Neutrons, Electrons, Elements, and Isotopes*) – Probing the Periodic Table, Changes Matter – Meet the Elements – Radioecology – Sunstruck (*Planetarium*)

How:

Beginning mid-April, the Ruth Patrick Science Education Center will be accepting reservation requests for field trip programs for the 2019-2020 school year. Reservation request forms are available [here](#). The programs fill up quickly, so please do not delay!

For more information contact Dr. Gary Senn at SennG@usca.edu



Friday October 18, 2019

Where:

University of South Carolina Salkehatchie – Allendale, SC

Who:

Middle school students from Allendale school area



What:

Interactive and informational education activities

How:

For more details, contact Greg Fennessey at FENNESJ@mailbox.sc.edu or 803-812-7354

**Tuesday
October 15, 2019**

Where:

Augusta University – Summerville Campus (Science Hall Patio) – Augusta, GA 11:00 am – 1:00 pm

Who:

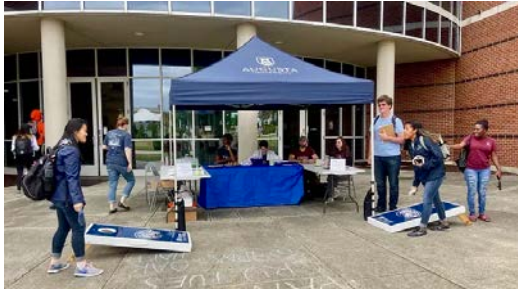
Hosted by the Society of Nuclear Scholars

What:

Outdoor campus booth with interactive and educational information that aim to educate and engage students about nuclear science. Learn about the expansive, challenging, and indispensable workforce within the world of nuclear science and how expedient and enriching nuclear science is in our everyday lives.

How:

For more information contact JoyAnne Jernigan, JJERNIGAN@augusta.edu



**Thursday
October 17, 2019**

Where:

Kroc Center – Augusta, GA

Who:

GA/SC regional high school junior and senior students considering a career pathway that involves science, technology, engineering and math (STEM) skills.

What:

Students will learn about local career opportunities they may not have considered and interact with professionals in high-tech industries to include nuclear, energy, cyber, information technology, manufacturing, healthcare and more through a wide variety of interactive exhibitors and speakers.



How:

Registration required (limited space) and coordinated through educators – For more information and details, contact Kim Saxon at kim.saxon@srsacro.org

Event is hosted by SRS Community Reuse Organization

Our Sponsors

Many thanks to our sponsors.

GOLD:

Bechtel | Georgia Power | Southern Nuclear | SRS Community Reuse Organization | Nuclear Workforce Initiative®

SILVER:

Aiken Technical College | Applied Research Center | Savannah River Nuclear Solutions, LLC

BRONZE:

Augusta Technical College | Augusta University School of Computer and Cyber Sciences | Augusta University College of Allied Health Sciences | Augusta University College of Science and Mathematics | Kimberly-Clark | Savannah River Remediation, LLC

IN-KIND

Collum's Lumber Products | Georgia Cyber Center | Security Onion Solutions





**Monday, Wednesday, Thursday, Friday
October 14, 16, 17, 19, 2019**

Where:

Southern Nuclear Plant Vogtle – Waynesboro, GA

Who:

Middle, high school, college/university students and teachers

What:

Tour & hands-on educational demonstrations

How:

Registration required (limited space). For more information contact Joel Leopard at jaleopar@southernco.com or 706-848-3630

**Wednesday and Friday
October 16 & 18, 2019**



and
Thursday
October 24, 2019

Where:
Savannah River Site – Aiken, SC

Who:
High school students

What:
Students will experience a “day in the life” of a nuclear worker with a focus on careers

How:
For more information contact Kimberly Mitchell at kimberly.mitchell@srs.gov.



Annual Edward Teller Lecture and Banquet

Wednesday, October 16, 2019

Where:
University of South Carolina Aiken Convocation Center



What:

Time for members of the public to come learn more about the current advances in nuclear technology as well as see pioneering scientists awarded for their efforts in the industry

Keynote Speaker:

Michael Shellenberger – Time Magazine “Hero of the Environment,” Green Book Award winner, and the founder and President of Environmental Progress

How:

Tickets required (RSVP deadline October 2, 2019). Open to public.

For more information [click here](#) or contact CNTA at cnta@bellsouth.net.



Science Education Enrichment Day (S.E.E.D)

Saturday, October 5, 2019

10:00 am – 3:00 pm

University of South Carolina Aiken Campus

Other Activities



FREE ADMISSION!

The goal is to increase awareness of the critical role science, technology, engineering and math (STEM) fields play in our everyday existence.

For more information click [here](#) or follow event on [Facebook](#).

CNTA Oyster Roast & Low Country Boil

Saturday, October 5, 2019

6:30 PM

Palmetto Golf Club – Aiken, SC

Tickets required (RSVP deadline September 27, 2019). Open to the public. See [flyer](#).

For more information click [here](#) or contact CNTA at cnta@bellsouth.net

Hosted by Citizens for Nuclear Technology Awareness

Atomic City Festival

Saturday, October 12, 2019

Family Fun Event! Craft • Food Vendors • Music • Live Entertainment.

Follow event on [Facebook](#).

Careers in Energy

Friday, October 18, 2019

Richmond County Technical Career Magnet students will learn about great careers they can pursue in the energy industry and how important human performance is to the nuclear industry.

Event sponsored by Southern Nuclear & Georgia Power



Nuclear Blitz Days

October 22 - 25, 2019

The Citizens for Nuclear Technology Awareness (CNTA) and the local section of the American Nuclear Society (ANS-SR) will jointly conduct a weeklong “blitz” into area high schools.

Classroom lessons include an overview of nuclear fundamentals, applications and career opportunities partnered with hands-on demonstrations.

For more information contact CNTA at cnta@bellsouth.net



Block Party – Atoms in the Alley

EVENT CANCELLED .. Saturday, October 19, 2019

11:00 am – 1:00 pm

The Alley in downtown Aiken, SC

Join this fun, family friendly event celebrating Aiken County and the surrounding area’s nuclear history. Event will include science related demonstrations, music, vendors and more. All proceeds benefit the SRS Museum. Follow event on [Facebook](#). See [flyer](#).

For more information contact Lauren Miller at lmiller@newsouthassoc.com or 803-648-1437.

Savannah River Site Education Outreach Programs

The United States Department of Energy Savannah River Operations Office (DOE-SR) provides a variety of science and literacy outreach programs at the Savannah River Site (SRS) by funding and coordinating the efforts of several organizations. The primary goals of these outreach programs are to enhance interest in science, mathematics, engineering and technology and to support improvements in education in the Central Savannah River Area by using the unique resources available at the Site. We believe business, industry, government and the education community must work together as partners to improve the educational opportunities for all students in our region.

In partnership with education institutions, the Savannah River Site offers:



- Hands-on programs for precollege students and teachers
- Unique research opportunities for postsecondary students and faculty at the Savannah River Site
- Various workshops, tours, lectures and demonstrations that promote science, mathematics, engineering and technology

Education Outreach Programs Calendar of Event Dates:

- CSRA College Night – September 12, 2019
- Nuclear Science Week – October 14-18, 2019
- Computer Science Week – December 9-15, 2019
- SC Regional Future City Competition – January 25, 2020
- SRS Engineers Teach-Ins – February 19 – March 6, 2020
- DOE-SR Regional Science Bowl – March 7, 2020
- CSRA Regional Science Engineering Fair – March 14, 2020
- Introduce A Girl to Engineering – March 28, 2020
- SRNS Innovative Teaching Mini Grants – May 14, 2020
- CSRA College Night – September 10, 2020

On-going during the 2019-2020 academic year: Science Technology Enrichment Program (STEP), Traveling Science and Math Demonstrations Program, and Job Shadowing.

To learn more about the many programs offered click [here](#).

Ruth Patrick Science Education Center

The Ruth Patrick Science Education Center is a cooperative effort between the University of South Carolina Aiken, business, industry, and schools in the Central Savannah River Area. Its programs challenge the present and inspire the future to effect systemic change in science and mathematics education. Its hands-on approach to teaching is designed to help people experience the beauty, the order, and the power of science and mathematics, as well as the interest and fun of discovery.

Programs are available for students, teachers and the community. To learn more click [here](#).

Teach-Ins

Need a subject matter expert to help in your classroom? The Citizens for Nuclear Technology Awareness (CNTA) has speakers available that can come to your classroom to discuss atomic and nuclear fundamentals, nuclear energy, nuclear technologies and applications, careers in nuclear, and a wide range of other topics. We also conduct hands-on demonstrations and activities.

Available Topics Include:



- How Radiation is Measured and How Exposure is Safely Controlled
- The Applications Of Radiation
- Nuclear Fundamentals
- Nuclear Technology Applications
- Regional Nuclear Technology Uses
- Career Opportunities in Nuclear

If you are interested in having members from CNTA come to your classroom to teach, please contact the office at cnta@bellsouth.net.



Plant Vogtle Energy Education Center

Dive into the fascinating world of electricity and energy with Learning Power! Expand your students' minds with "in-class field trips" facilitated by Georgia Power education coordinators who bring an informative energy curriculum to your classroom. Learning Power's highly interactive lessons are aligned with Georgia Standards of Excellence and are a great way to stimulate your students' minds. Click [here](#) to find a coordinator for your school district.

If you would like to receive information about Plant Vogtle or schedule a field trip to a working power plant, please contact the Vogtle Energy Education Center staff at veec@southernco.com.

Classroom Lesson Plans

Nuclear Science Week endeavors to provide a rich assortment of curriculum assistance.

Energy Solutions Foundation has provided a number of these lesson plans, which will provide you with step-by-step ways to teach the fundamentals of nuclear science.

Click [here](#) on activities that are ready to use in your classroom.

Lesson plans include:

- NAYGN's Global Fuel Cycle Game
- Navigating Nuclear: Energizing Our World
- Detecting Radiation in Our Radioactive World
- The Atomic Nucleus
- The Nuclear Wall Chart
- Tearing Through a Half-Life
- Nuclear Popcorn
- Alphas, Betas, Gammas, Oh My!
- Radioactive Decay

- Radioactive Decay Chains
 - Safe and Reliable Nuclear Energy
 - The Environment and the Generation of Electricity
 - Nuclear Clean Air Facts
 - The Fission Game
 - Radioactive Waste Disposal
 - How Much Radiation
 - Estimate Your Personal Annual Radiation Dose
 - Calculate Your Radiation Dose
 - Mock Senate
 - Perception of Risk
-

Nuclear Science Resources

Click [here](#) to find websites and resources for more information and activities centered on nuclear science.



Community
Activities
Throughout
the Year

Savannah River Ecology Laboratory

The Savannah River Ecology Laboratory (SREL), a research unit of the University of Georgia, pursues basic and applied research at multiple levels of ecological organization, from atoms to ecosystems.

The [SREL Outreach Program](#) reaches more than 39,000 people annually who live in communities surrounding the Savannah River Site (SRS). These programs enhance an individual's understanding of environmental issues affecting the SRS, and they increase general ecological awareness by featuring programs on the local ecology and associated research.

The following are outreach programs available. Click on each program for details.

- [Ecologist for a Day](#)
- [EcoTalks](#)
- [Exhibits](#)

Click [here](#) to complete an outreach program request form.

Click [here](#) for educational materials.

Savannah River Site Museum

The SRS Museum became an extension of the Aiken County Historical Museum in 2015 when the SRS Heritage Foundation partnered with Aiken County to obtain the former Dibble Library on Laurens Street for the sole purpose of creating a museum for the interpretation and preservation of the history of the Savannah River Site and its role in the Cold War.

The SRS Museum is committed to informing the public about the history of the Savannah River Site by:

- Creating interest in the museum and excitement about its activities;
- Attracting visitors to the museum;
- Linking the museum to other museums and historical/educational organizations
- Generating excitement about careers in STEM fields

For more information click [here](#) or contact Lauren Miller at lmiller@newsouthassoc.com or 803-648-1437

Savannah River Site Public Tour Program

Savannah River Nuclear Solutions, LLC (SRNS) will once again offer a limited number of Savannah River Site (SRS) tours for the general public.

Guests will be given an overview presentation, safety briefing and driving tour of the site. The public tour includes a visit to the University of Georgia's Savannah River Ecology Laboratory. Visitors will get an overview of the ecology lab's history and mission, and get an up close view of animals that are native to the Savannah River Site. Historic tours include a tour of the SRS Curation Facility and also stops at the Dunbarton town site and C Reactor.

Site tours provide an opportunity for those interested in SRS to better understand the Department of Energy's facilities and workers that changed the face of Aiken, Barnwell and Allendale Counties, nearby cities and helped win the Cold War. Guests will also learn about facilities supporting future missions of the Savannah River Site.

For more information on the SRS public tour program, click [here](#).

Scholarship and Training Opportunities



Science, Technology, Engineering and Mathematics (STEM) skills are important building blocks that help students expand their education and career opportunities. Creative resources are available to students, teachers and parents to promote STEM skill development and understand nuclear technology through activities that encourage exploration and involvement.

Workforce Opportunities in Regional Careers (WORC) scholarships are available at five area educational institutes with a focus on programs that enable students to develop critical skills needed for careers supporting Department of Energy's (DOE) Office of Environmental Management (EM) and National Nuclear Security Administration (NNSA) nuclear missions.

Five area educational partners offering training and scholarships:

- Aiken Technical College
- Augusta Technical College
- Augusta University
- University of South Carolina Aiken
- University of South Carolina Salkehatchie

Click [here](#) to learn more about the local high-tech training opportunities and scholarships available.

For more information about

Nuclear Science Week,

contact Mindy Mets, Director of Regional Workforce Programs at mindy.mets@srsco.org or Kim Saxon, Assistant Coordinator, at kim.saxon@srsco.org



"Growing Our Own Through Collaboration."®