

# CELEBRATING NUCLEAR SCIENCE WEEK

OCTOBER 19 – 23, 2020

# GROW *YOUR* CAREER IN NUCLEAR



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!**

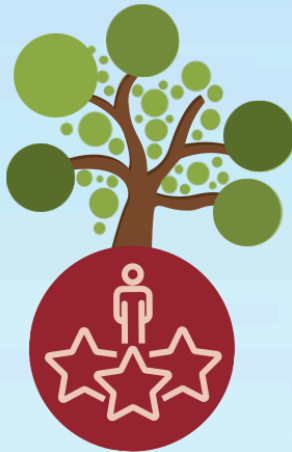
Nuclear Science Week is an international, broadly observed week-long celebration that focuses on all aspects of nuclear science. Events during this week will provide many learning opportunities about contributions, innovation and careers that can be found by exploring nuclear science. **#nuclearsciweek**

SEE **POSTER** CELEBRATING 2020 NUCLEAR SCIENCE WEEK CAREER FOCUS  
VIEW **FLYER** ON 2020 NUCLEAR SCIENCE WEEK REGIONAL EVENTS

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.



## Education Days Information



**Monday, Tuesday, Wednesday, Thursday, Friday**  
**October 19, 20, 21, 22, 23, 2020**

**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:**

The Ruth Patrick Science Education Center will be accepting reservation requests for field trip programs for the 2020-2021 school year. Deadline date is June 5, 2020. 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](mailto:SennG@usca.edu)

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**Date**

TBA

**Where:**

TBA



**Hosted By:** University of South Carolina Salkehatchie – Allendale, SC

**Who:**

Middle school students from Allendale, SC

**What:**

Science, Technology, Engineering & Math (STEM) focus

**How:**

For more details coming soon!

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**Monday, Tuesday, Wednesday, Thursday, Friday  
October 19, 20, 21, 22, 23, 2020**

**Where:**

Augusta University

**Who:**

Hosted by Society of Nuclear Scholars

**What:**

Planning to host a campus wide **nuclear scavenger hunt** complete with prizes. There will be fun facts to learn about how nuclear science helps us in our lives as participants complete the hunt.

**How:**

For more information on how to participate, please contact the Society of Nuclear Scholars at [societyofnuclearscholars@augusta.edu](mailto:societyofnuclearscholars@augusta.edu)

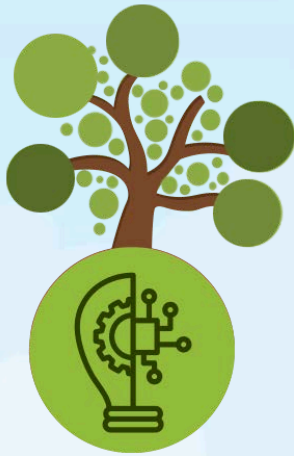
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**October 26 - November 13, 2020  
(3-weeks to show video to students)**

**Our Sponsors**

**Many thanks to our sponsors.**

# STEM Career Connections®



## Where:

Virtual Event (pre-recorded video)

## Who:

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

## What:

Pre-recorded video of local industry experts sharing their knowledge & discussing current/future workforce topics. The goal is to help local students better understand the many career opportunities in STEM fields that exist right here in our community. Click [here](#) to see the video.

## How:

Video link and post event survey link given to educators. Information and details will be coordinated through educators.

For more information and details, contact Kim Saxon at [kim.saxon@srsco.org](mailto:kim.saxon@srsco.org)

*Event is hosted by SRS Community Reuse Organization*

## GOLD:

[Bechtel](#) | [SRS Community Reuse Organization](#) | [Nuclear Workforce Initiative®](#)

## SILVER:

[Aiken Technical College](#) | [Augusta Technical College](#) | [Applied Research Center](#) | [Georgia Power/Southern Nuclear](#) | [Savannah River Nuclear Solutions, LLC](#)

## BRONZE:

[BWX Technologies, Inc](#) | [Dominion Energy](#) | [Savannah River Remediation, LLC](#)

## IN-KIND:

[Aiken Works](#) | [Georgia Cyber Center](#) | [MTU America](#) | [Security Onion Solutions, LLC](#)

**Thursday  
October 22, 2020**

**12:00 pm**

## Site Visit Days



### Where:

Southern Nuclear Plant Vogtle – Waynesboro, GA

### Who:

Middle, high school, college/university students and teachers

### What:

A special Facebook live event on careers in nuclear energy

### How:

Follow Southern Nuclear on [Facebook](#) or for more information contact Joel Leopard at [jaleopar@southernco.com](mailto:jaleopar@southernco.com) or 706-848-3630

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## Savannah River Site (SRS) Virtual Field Trip

### "Wet Wonders" Come On! Get on the Bus!

Your journey takes you to on a "Wet Wonders" adventure at SRS to study biotic factors that determine the health of a pond.

Roundtrip 14 minutes!

Attention Educators: For keys to the bus, complete the short form at: <https://www.surveymonkey.com/r/VirtualTripWetWondersSRS>

Upon submission, within 1-3 business days, you will receive a link to the video, and a Student Activity Sheet with Answer Key.

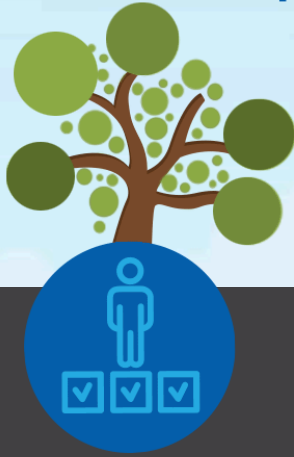
## Annual Edward Teller Lecture and Banquet

Date TBA

### Where:

Virtual

# Annual Edward Teller Lecture & Banquet



## 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:

TBA

## How:

Tickets required.

For more information contact CNTA at [cnta@bellsouth.net](mailto:cnta@bellsouth.net).

## Science Education Enrichment Day (S.E.E.D) Virtual STEM Expo

**Monday, Tuesday, Wednesday, Thursday, Friday  
October 12, 13, 14, 15, 16, 2020**

**University of South Carolina Aiken's Ruth Patrick Science Education Center**

Although the university's **35th annual SEED event** will be presented in a different format this year, students and educators will have access to engaging, dynamic and interesting projects, presentations and information.

To participate in the SEED Virtual STEM Expo, students and their teachers can register at <http://usca.edu/SEED>.

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## CNTA Oyster Roast & Low Country Boil

**Saturday, October 17, 2020**

**6:30 pm**

## Other Activities



### Palmetto Golf Club (Aiken, SC)

Tickets required.

For more information contact CNTA at [cnta@bellsouth.net](mailto:cnta@bellsouth.net)

Hosted by Citizens for Nuclear Technology Awareness

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### Atomic City Festival

**CANCELLED**

Saturday, October 10, 2020

New Ellenton, SC

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

Follow event on [Facebook](#).

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### Savannah River Site Museum

Wednesday - Saturday, October 21 - 24, 2020

10:00 am - 2:00 pm (Wednesday, Thursday, Friday)

10:00 am - 4:00 pm (Saturday)

224 Laurens Street SW

Aiken SC, 29801

Located in downtown Aiken, SC, SRS Museum visitors can experience life at the Savannah River Site and learn more about South Carolina's role in winning the Cold War through stories and artifacts from SRS.

The SRS Museum just completed installation of a new exhibit, "6,000 Stories" that details life before the plant in surrounding communities of Dunbarton, Ellenton, and Meyer's Mill, whose residents relocated to make way for the 310 square mile plant. Additional exhibits include information on the Cold War, local fallout shelters, plant production, radiation, waste cleanup, space exploration, and ecology.



Even after seven decades, the Savannah River Site remains one of the most influential entities in the Central Savannah River Area, and is one of the CSRA's largest employers. Come discover its impact on our community from its mid 20th century origins through today.

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

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## Nuclear Blitz Days

**Date TBA**

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](mailto:cnta@bellsouth.net)

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## Block Party – Atoms in the Alley

**CANCELLED**

**Saturday, October 24, 2020**

**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](#).

For more information contact Lauren Miller at [lmiller@newsouthassoc.com](mailto: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



# Educator Activities Throughout the Year



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 post-secondary students and faculty at the Savannah River Site
- Various workshops, tours, lectures and demonstrations that promote science, mathematics, engineering and technology

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

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## 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](#).

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## 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](mailto:cnta@bellsouth.net).

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## 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](mailto:veec@southernco.com).

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## 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 50,000 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.

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### 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 contact Lauren Miller at [lmiller@newsouthassoc.com](mailto:lmiller@newsouthassoc.com) or 803-648-1437

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## 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.

## Local High-Tech Training Opportunities



Five area educational partners offering training and scholarships:

- Aiken Technical College
- Augusta Technical College
- Augusta University
- Clafin 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](mailto:mindy.mets@srsco.org) or Kim Saxon, Assistant Coordinator,  
at [kim.saxon@srsco.org](mailto:kim.saxon@srsco.org)



*"Growing Our Own Through Collaboration."®*