RPSEC Student Programs for K-12 students had 33,109 program visits during the 2012-2013 school year. Of that total, 26,884 were K-12 students from 79 schools encompassing 14 districts in South Carolina and Georgia. In addition, 717 teachers and 2,989 adult chaperones accompanied the students during this year’s programs. This year’s most popular programs included The Graph Club (1,693 student visits) Circuit City (1,489 student visits), Journey into the Living Cell (1,358 student visits), Magnets & Motions (1,208 student visits), and Under the Sea (1,204 student visits).

K12 Student Programs 2013-2014

The deadline has passed for reservation requests for the 2013-2014 school year. Once again, we received many more requests than we will be able to serve, and our schedule is now full. We are unable to schedule additional programs at this time, but we will be happy to place your request on a waiting list in the event of a cancellation. To download a reservation request form, please go to: http://rpsec.usca.edu/student/.

The RPSEC currently offers 52 hands-on, inquiry-based programs for K-12 students. All of our programs are aligned with South Carolina and Georgia academic standards, and many of our programs are interdisciplinary.

Our Student Programs website includes program descriptions, standards correlations, and related Traveling Science and Mathematics Kits that support and extend each lesson. These kits contain excellent post-visit activities and are available, free of charge, for checkout. To reserve a kit, go to http://rpsec.usca.edu/travelingscience/ or call (803) 641-3683.
Summer Student Programs at the RPSEC

During the summer, the DuPont Planetarium and the RPSEC offer programs to day-care centers, church groups, summer camps, and civic organizations. Summer programs offered this year include Animals with Backbones, Mad Scientist, Grossology, Kid Pix, Digistar Laser Fantasy, In My Backyard, and Solar System Adventure Tour.

Home School Mondays 2013

Last year, the RPSEC began offering a series of monthly programs for home school students. This year, the programs were again held on Monday afternoons from January through May. One Monday per month, each child attended two one-hour, back-to-back science or math programs. Over the course of the spring semester, each child attended a total of 10 programs. The two programs for the younger students (Grades K-3) were held at the same time as the two programs for the older students (Grades 4-8). Different programs will be offered each year with a 3-year rotation cycle. Home School Mondays 2013 had a total of 1,534 student visits with 53 adult chaperones.

Program descriptions and reservation request forms for Home School Mondays 2014 will be e-mailed to last year’s participants and posted on our website by September 6, 2013. Reservation request forms with pre-payment ($30 per student) must be mailed or delivered to the RPSEC by Monday, December 2, 2013 at 5:00 PM. Reservations are first come, first served, and we may fill up before the deadline. Parents may request that their children be grouped with specific children. Students in the First Mondays group will attend programs on January 6, February 3, March 3, April 7, and May 5. If needed, we will assign a second group to attend on January 13, February 10, March 10, April 14, and May 12. A final schedule with dates and participant lists will be e-mailed to parents by December 16, 2013.

CE-MIST Student Programs 2012-2013

The students from each of our three CE-MIST partner schools (A. L. Corbett Middle School, JET Middle School, and Leavelle McCampbell Middle School) visited the RPSEC for a series of hands-on, inquiry based programs aligned with South Carolina academic standards. The lessons included standards correlations for multiple content areas, pre- and post-visit activities, related Traveling Science kits, and children’s literature connections. These activities were sponsored by the Center of Excellence in Middle-level, Interdisciplinary Strategies for Teaching (CE-MIST).

Students in Grade 6 attended Blown Away: The Wild World of Weather, Circuit City, and May the Force Be With You in the fall, as well as Ancient Sky Lore, Hiker, and Polygon Puzzle in the spring.

Students in Grade 7 attended To the Moon and Beyond, Probing the Periodic Table, and Chemicals Matter. Grade 7 students also attended all day, outdoor environmental STEP classes at the Silver Bluff Audubon Center.

Students in Grade 8 attended Follow the Drinking Gourd, Rockin’ and Rollin’ and Are You Dense? Grade 8 students also participated in hands-on, school-based Minerals lessons.
CE-MIST and Aiken Writing Project Summer Institute

Based on the National Writing Project’s “Teachers Teaching Teachers” philosophy, the Aiken Writing Project offered an intensive Summer Institute for prospective Teacher-Consultants. The 12 teachers who attended studied the latest research and effective classroom practices, particularly with use of digital tools for writing. Three hours graduate credit for AETE 760: Issues in Writing was awarded upon successful completion of the Summer Institute.

Four teachers enrolled in the course participated in an additional professional development opportunity to align existing TILT units with Common Core standards and develop user-friendly implementation guides. This project was sponsored by the Aiken Writing Project and the Center of Excellence in Middle-level, Interdisciplinary Strategies for Teaching (CE-MIST).

CE-MIST Summer Institute for Teachers - July 2013

Twenty educators participated in this year’s CE-MIST Summer Institute, Using High Interest Topics to Weave STEM Instruction across the Disciplines. The workshop was held on July 8-9, 2013 and was presented by Dr. Jennifer Richards, Research Assistant Professor and Project Director of Hands On: Real World Lessons for Middle School Classrooms at the University of Tennessee. The purpose of the workshop was to provide and model examples of interdisciplinary curricular units as a means of empowering participants to incorporate cross-disciplinary instruction into their regular classroom practice. The workshop was interactive and hands-on, utilizing a combination of modeling demonstrations, seminar-style discussions, and strategic work sessions. Upon successful completion of the workshop activities, the participants gained an understanding of instructional theory and current research on the impact of interdisciplinary instruction on student learning outcomes. Participants also received three ready-to-use interdisciplinary units aligned to Common Core standards.

CE-MIST Professional Development for Teachers

Professional development sessions were presented throughout the year at each of the three CE-MIST partner schools: A. L. Corbett Middle School, JET Middle School, and Leavelle McCampbell Middle School. The workshops focused on interdisciplinary curriculum development and implementation, and were presented by Dr. Bridget Coleman (Bloom’s Taxonomy and Smarter Balanced Assessments), Dr. Tim Lintner (Reading and Writing in the Content Areas), and Gloria Allen and Bobby Cue (Mathematics Strategies and the Common Core). These activities were sponsored by the Center of Excellence in Middle-level, Interdisciplinary Strategies for Teaching (CE-MIST). CE-MIST is funded by the South Carolina Commission on Higher Education.

AEDP 334 Service Learning for Pre-Service Teachers

Undergraduate students enrolled in AEDP A334 Adolescent Growth and Development classes were asked to complete a 10 - 20 hour service learning project at a CE-MIST school: Leavelle McCampbell Middle School, A. L. Corbett Middle School, or JET Middle School. During the fall and spring semesters, each pre-service teacher was asked to mentor a young adolescent, interview them to co-construct an Identity Concept Map, and write reflections about the experience. Over the course of the 2012-2013 school year, the pre-service teachers logged a total of 389 service learning hours. This project was sponsored by the Center of Excellence in Middle-level, Interdisciplinary Strategies for Teaching (CE-MIST).
CE-MIST and Aiken Writing Project Traveling Trunks

A partnership between CE-MIST and the Aiken Writing Project resulted in the development of Traveling Interdisciplinary Literacy Trunks (TILTs). Teachers representing each grade level at the three CE-MIST partner schools worked on Traveling Trunk teams and were given a budget of $800 per trunk for instructional materials. Requirements included an emphasis on writing across the curriculum and participation in the Aiken Writing Project Summer Institute.

New trunk titles this year included Native American Culture (Grade 8), The Great Wall of China (Grade 6), and Headin’ West (Grade 4). In addition, four TILTs were duplicated and placed into circulation through Traveling Science: Ancient Greece (Grade 6), Ancient Rome (Grade 6), Mission Impossible: The Vietnam War (Grade 7), and The Triangle Shirtwaist Factory Fire: The Industrial Revolution (Grade 7).

This project was sponsored by the Aiken Writing Project and the Center of Excellence in Middle-level, Interdisciplinary Strategies for Teaching (CE-MIST).

CE-MIST and Magellan Scholars Traveling Trunks

A partnership between CE-MIST and the Magellan Scholars program resulted in the development of two new Traveling Interdisciplinary Literacy Trunks (TILTs). Mentored by Dr. Tom Mack, three undergraduate USC Aiken students researched and developed two units that are aligned with Common Core and state academic standards with an emphasis on writing across the curriculum. Tayler Rodgers chose to focus on James Matthews Legare: An Aiken Poet and Inventor for Grade 6. Jennifer Gilmore and Brianna Arnone collaborated on A Poet, A Potter, and a Slave: What David Drake Can Teach Us for Grade 8. The completed trunks included class novels, literature circle books, hands-on instructional materials, and other curricular resources. The students presented their projects at USC’s Research Day and at the South Carolina Middle School conference.

At the conclusion of the project, the Magellan scholars donated their trunks to the RPSEC’s Traveling Science department, so that middle school teachers around the state can check out the trunks, free of charge, and use these materials with their students.

CE-MIST Presentations at State Conference

Professional development activities for teachers at the three CE-MIST partner schools included opportunities to attend statewide conferences such as the South Carolina Middle School Association conference in March. This year, teachers from A.L. Corbett Middle School and Leavelle McCampbell Middle School presented four sessions at the SCMSA conference. The sessions included Ancient Egypt: A CE-MIST TILT; The Triangle Shirtwaist Factory Fire & The Industrial Revolution; Landform Regions of South Carolina; and TILTing Back in Time to the Holocaust.

In addition, four USC Aiken undergraduate students presented SCMSA sessions this year: Tayler Rodgers, Jennifer Gilmore, and Brianna Arnone presented their Magellan Scholar Traveling Trunks, while Kristen Taylor presented a session entitled Bullying 101: Advocacy for the Victims. These activities were sponsored by the Center of Excellence in Middle-level, Interdisciplinary Strategies for Teaching (CE-MIST). CE-MIST is funded by the South Carolina Commission on Higher Education.
Animals and Raptors Outreach

Shannon Unger, Brittany Shaw and Deborah McMurtrie presented a limited number of programs at public libraries during the summer. Participants observed and interacted with live animals, including salamanders, frogs, turtles, snakes, a small alligator, an Eastern Screech Owl, and a Barred Owl. Sites included public libraries in Bamberg, Blackville, Denmark, Edgefield, Johnston, Wagener, and Williston, South Carolina.

In addition to the library programs, this year Larry and Carol Eldridge presented a limited number of off-site programs for Birds and Butterflies and DOE Kids’ Day at the Savannah River Site. Participants got an up-close look at two very different birds of prey found in South Carolina. Live birds including a Red-Tailed Hawk, Barred Owl, and Eastern Screech Owl were used as part of this presentation. This program emphasized the physical characteristics and adaptations that enable these predators to survive at the top of the food chain.

New Steps with STEP

The Science and Technology Enrichment Program (STEP) will take new “steps” under the leadership of its new director, Shannon Unger. Shannon comes to us from the Nina Mason Pulliam EcoLab in Indianapolis, Indiana where she served as the nature center’s environmental education coordinator from 2009-2013.

In that role, she designed and implemented environmental education programs for Marian University students, Pre K-12 school groups, and the general public. She previously worked as a Biology and Chemistry instructor, middle school science teacher, and public education outreach coordinator. Shannon earned a Masters of Science degree in Biology in 2002 and a Masters of Arts degree in Education in 2007. She has a particular interest in freshwater ecology and the use of macroinvertebrates as water quality indicators. Shannon joined the RPSEC staff as a student programs instructor in March and almost immediately began implementing some exciting new programs, such as Saturday Scout Badge classes. We look forward to great things from Shannon. You may contact Shannon Unger at 803-641-2843 or ShannonU@usca.edu.

FREE Teacher Resources and Visiting Scientists Available

The Traveling Science and Mathematics Demonstrations Program has over 300 science and math kits available for use in the classroom. Supplement your curriculum with nationally-recognized and state-adopted exemplary materials. Kits have been correlated to SC state standards. Many kits contain children’s literature so that you can integrate your science and language arts lessons.

In addition to these resources, you can request a visiting Scientists with Traveling Resources and Neat Demonstrations (STRAND) volunteer for classroom presentations.

For more information please visit http://rpsec.usca.edu/travelingscience or call us @ 803-641-3683
Thank You to Our 2012 Adopt an Animal Sponsors!

The Ruth Patrick Science Education Center is grateful for the support of the following 2012 Adopt an Animal sponsors:

- Eastern Screech Owl - ADOPTED by Ms. Barbara Fenstermacher
- Eastern Screech Owl - ADOPTED by Dr. & Mrs. Gary Senn
- American Alligator - ADOPTED by Bruce & Karen Morgan
- American Alligator - ADOPTED by John M. Hutchens
- Corn Snake - ADOPTED by Tristan Davis
- Snapping Turtle - ADOPTED by Mr. and Mrs. James M. Ferrell
- Red-Eared Slider Turtle - ADOPTED by Anna Flaherty
- Barking Tree Frog - ADOPTED by Drs. Carol and Bob Botsch
- Southern Leopard Frog - ADOPTED by Dr. Guy & Mrs. Mary Lynn
- Tiger Salamander - ADOPTED by Robert Flaherty

ADOPT AN ANIMAL PROGRAM 2013

The RPSEC is looking for sponsors to help support the cost of feeding and caring for the animals used in our K-12 educational programs for one year beginning in January 2013. Donations are tax deductible. For more information, please contact Deborah McMurtrie at DeborahMc@USCA.edu or (803) 641-2834.

BIRDS
Barred Owl (Strix varia) Non-releasable male, Raleigh ...................... Adopted
Eastern Screech Owl (megascops asio) grey phase female, Lina .............. $300

REPTILES: CROCODILIANS
American Alligator (Alligator mississippiensis) male, hatched 2012, Al ...... Adopted

REPTILES: SNAKES
Eastern Kingsnake (Lampropeltis getula getula) ........................................ $100
Grey Rat Snake (Elaphe obsoleta spiloides) ........................................ $100
Corn Snake (Elaphe guttata) ............................................................... Adopted
Albino Corn Snake (Elaphe guttata) ...................................................... Adopted

REPTILES: TURTLES
Box Turtle (Terrapene carolina carolina) ................................................... $75
Painted Turtle (Chrysemys picta picta) ...................................................... Adopted
Chicken Turtle (Deirochelys reticularia) .................................................. $75
Red-Eared Slider Turtle (Trachemys scripta elegans) ............................... $75
Yellow-Bellied Slider Turtle (Trachemys scripta scripta) ....................... $75

AMPHIBIANS
Barking Tree Frog (Hyla gratiosa) ......................................................... Adopted
Green Tree Frog (Hyla cinerea) ............................................................ Adopted
Gray Tree Frog (Hyla versicolora) ......................................................... Adopted
Southern Toad (Bufo terrestris) .......................................................... $50
Spotted Salamander (Ambystoma maculatum) ....................................... $50
Tiger Salamander (Ambystoma tigrinum) ............................................. Adopted
Camp Invention

In partnership with Invent Now, the Ruth Patrick Science Education Center was again pleased to offer the nationally-acclaimed Camp Invention program to over 100 children entering grades one through six this summer. This exciting, weeklong adventure in creativity immersed children in imaginative play that reinforced and supplemented school-year learning in the subjects of Science, Technology, Engineering and Math (STEM). Children worked together to seek innovative solutions to real-world challenges and sharpened critical 21st century learning skills such as teamwork and creative problem solving as they rotated through four modules each day that disguised learning as fun.

This exciting week began on June 17th, when Ruth Patrick Special Programs Director John Hutchens directed the Camp Invention Geo-Quest program. Working in teams, children became expedition trainees, navigating their way to special treasure-filled caches and creating solutions to challenges posed by youth from around the world. They embarked on a global adventure, uncovering hidden messages from the Earth, investigating several extreme natural wonders of the world, and building a device to launch international ducks back home.

Parents tell us Camp Invention improves their child’s outlook on learning and increases their child’s interest in using science to solve problems.

Local educators facilitated the program modules, and enthusiastic high school and college students served as Leadership Interns – ensuring that one staff member was in place for every eight children.

Science and Technology Enrichment Program (STEP)

The Science and Technology Enrichment Program (STEP) is a cooperative effort between Savannah River Nuclear Solutions, Silver Bluff Audubon Center, and the Ruth Patrick Science Education Center. Two field trip locations for STEP include the Savannah River Site and the Silver Bluff Audubon Center. At each location, STEP students utilize classroom and outdoor laboratories to conduct scientific investigations on topics such as water and soil ecology, wildlife, forestry, archaeology, navigation and more. For program information please visit the STEP website at: http://rpsec.usca.edu/step/

NOTE: To visit the Savannah River Site, there are specific procedures that must be followed two weeks prior to your visit for badging purposes.
The Future City Competition is a national, project-based learning experience where students in 6th, 7th, and 8th grade imagine, design, and build cities of the future. Students work as a team with an educator and engineer mentor to plan cities using SimCity™ 4 Deluxe software; research and write solutions to an engineering problem; build tabletop scale models with recycled materials; and present their ideas before judges at Regional Competitions in January. Regional winners represent their region at the National Finals in Washington, DC in February.

**Future City Engages Kids in Engineering and So Much More...**
This flexible, cross-curricular educational program gives students an opportunity to do the things that engineers do—identify problems; brainstorm ideas; design solutions; test, retest and build; and share their results. This process is called the engineering design process. With this at its center, Future City is an engaging way to build students’ 21st century skills. Students participating in Future City:

- Apply math and science concepts to real-world issues
- Develop writing, public speaking, problem solving, and time management skills
- Research and propose solutions to engineering challenges
- Discover different types of engineering and explore career options
- Learn how their communities work and become better citizens
- Develop strong teamwork skills

Visit [HTTP://WWW.FUTURECITY.ORG](HTTP://WWW.FUTURECITY.ORG) to register your school to participate.

**Want more information?**

Plan to attend one of our
TEACHER / MENTOR INFORMATION WORKSHOPS
August 22nd and September 12th
4:00-6:30PM - RPSEC

Call John Hutchens 803.641.3474
to register for the workshop.
## DuPont Planetarium
### Ruth Patrick Science Education Center
### UNIVERSITY OF SOUTH CAROLINA AIKEN

#### 2013-2014 Public Shows

<table>
<thead>
<tr>
<th>DATES</th>
<th>SHOW NAMES</th>
<th>SHOW TIMES</th>
</tr>
</thead>
</table>
| 2013 August 3, 10, 17, 24, 31 | *Mission to Mars*  
                      | *Digistar Virtual Journey*  | 8:00 pm  
                      |                           | 9:00 pm               |
| 2013 September 7, 21, 28 | *Solar System Adventure Tour*  
                      | *Blown Away: Wild World of Weather*  | 7:00 pm  
                      |                           | 8:00 pm               |
| 2013 September 14 | *Observe the Moon Night*  | *Dark Shadows*  | 7:00 pm  
                      |                           | 8:00 pm               |
| 2013 October 5, 19, 26 | *Larry Cat in Space*  
                      | *To the Moon and Beyond*  | 10:00, 11:00, 12:00, 1:00, 2:00  
                      |                           | 10:30, 11:30, 12:30, 1:30, 2:30 |
| 2013 November 2, 9, 16, 23, 30 | *In My Backyard*  
                      | *More than Meets the Eye*  | 7:00 pm  
                      |                           | 8:00 pm               |
| 2013 December 7, 14, 16 | *‘Tis the Season*  | 7:00 pm  
                      |                           | 8:00 pm               |
| 2013 December 21, 23, 28 | *‘Tis the Season*  | 6:00, 7:00 & 8:00 pm |
| 2014 January 4, 11, 18, 25 | *Ancient Sky Lore*  
                      | *Digistar “Laser” Fantasy*  | 7:00 pm  
                      |                           | 8:00 pm               |
| 2014 February 1, 8, 15, 22 | *Follow the Drinking Gourd*  | 7:00 pm  
                      |                           | 8:00 pm               |
| 2014 March 1, 8, 15, 22, 29 | *Mars in Opposition – April 8*  
                      | *Mission to Mars*  
                      | *Ancient Sky Lore*  | 7:00 pm  
                      |                           | 8:00 pm               |
| 2014 April 5, 12, 19, 26 | *Dark Shadows*  
                      | *Two Small Pieces of Glass*  | 7:00 pm  
                      |                           | 8:00 pm               |
| 2014 May 3, 10, 17, 24, 31 | *Solar System Adventure Tour*  
                      | *Blown Away: Wild World of Weather*  | 8:00 pm  
                      |                           | 9:00 pm               |
| 2014 June 7, 14, 21, 28 | *In My Backyard*  
                      | *More than Meets the Eye*  | 8:00 pm  
                      |                           | 9:00 pm               |
| 2014 July 5, 12, 19, 26 | *To the Moon and Beyond*  
                      | *Digistar “Laser” Fantasy*  | 8:00 pm  
                      |                           | 9:00 pm               |
| 2014 August 2, 9, 16, 23, 30 | *Worlds in Motion*  
                      | *Digistar Virtual Journey*  | 8:00 pm  
                      |                           | 9:00 pm               |

All shows last one hour unless otherwise noted. Most shows include a live “sky tonight” portion.

### Special Events
- Observe the Moon Night: September 14, 2013
- S.E.E.D.: Science Education Enrichment Day: October 12, 2013
- Spring Earth & Sky Night and National Astronomy Day: May 10, 2014

**For Planetarium information call:** 803-641-3654  
**From Augusta:** 803-278-1967 ext. 3654

More information is available on our website: http://rpsec.usca.edu/Planetarium/

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### Become a Galactic Guardian for 2013

How would you like to adopt a celestial object and be its Galactic Guardian for a year? There are a number of celestial objects that need a caring person, family or group to look out for their best interests over the next year. Additionally, you will have the opportunity to support programming at the Ruth Patrick Science Education Center with your tax-deductible donation. For more information, please call the main office at 803-641-3313 or email RPSEC@usca.edu.
The RPSEC: An Integral Part of the USC Aiken Campus

At the Ruth Patrick Science Education Center (RPSEC), people of all ages experience the beauty, order and power of science and mathematics as they engage in hands-on programs, workshops, courses, camps, planetarium shows and special events. These activities are designed to increase content knowledge and encourage the joy of discovery and learning. USCA students, P-12 students, teachers and the general public utilize the planetarium, observatory, live animals, classrooms, laboratories, and traveling science center at the RPSEC.

USC Aiken students may visit the RPSEC as part of a class, for service learning, or for a program that meets the university’s Inter-Curricular Enrichment (ICE) requirement. The USCA community will likely notice the school busses that stop at the RPSEC and park in lot C nearly every day of the school year. They bring students on field trips to participate in some of the 50+ hands-on student programs offered by the science center. USCA students who enjoy working with children may be interested in one of the work-study jobs at the RPSEC. Undergraduates are employed at the RPSEC to assist with animal care, P-12 student groups, general office work, and planetarium-related tasks.

The DuPont Planetarium features a Digistar II Projection system and presents shows for the general public on Saturday evenings. Many of the shows at the DuPont Planetarium meet the university’s ICE standards. USCA students, faculty, and staff may attend public planetarium shows for a special rate of only $1 with their USCA ID. The RPSEC Observatory, featuring the Bechtel Telescope, is open at no charge after public planetarium shows, weather permitting.

The Ruth Patrick Science Education Center is a cooperative community effort involving the University of South Carolina Aiken, local school districts, and the private sector. It draws upon the expertise of professional educators, engineers and scientists from colleges, industries and schools throughout the Central Savannah River Area on its mission to infuse a love of Science, Technology, Engineering, and Mathematics (STEM).

Foundational Core Courses (6 hours)
- AERM/EDRM 700 – Introduction to Research in Education
- AEET/EDET 709 – Applications of Learning Principles

Design Courses (15 hours)
- AEET/EDET 603 – Design and Development Tools I
- AEET/EDET 703 – Design and Development Tools II
- AEET/EDET 722 – Instructional Design and Assessment
- AEET/EDET 755 – Design and Evaluation of Information Access and Delivery
- AEET/EDET 793 – Advanced Instructional Design and Development

Technology Core Courses (12 hours)
- AEET/EDET 650 – Internship in Educational Technology
- AEET/EDET 735 – Technological Applications for Diverse Populations
- AEET/EDET 746 – Management of Technology Resources
- AEET/EDET 780 – Seminar in Educational Technology

Electives (3 hours chosen from the following courses)
- AEET/EDET 652 – Design and Evaluation of Games and Simulations
- AEET 731 – Instructional and Informational Applications of Technology or EDTE 731 – Integration of Technology and Instruction
- SLIS 706 – Introduction to Information Technologies
- TSTM 790 – Advanced Study in Technology Support/Training Management

Masters Degree in Educational Technology
Earn Your USCA Degree Online

Do you enjoy using your computer? Do others ask you how to do something on their computers? Do you enjoy showing others something new on your computer? Have you considered getting a masters degree? Then maybe it is time for you to consider the Masters of Education in Educational Technology (MEd Tech). The MEd Tech program at University of South Carolina Aiken (USCA) and the University of South Carolina (USC) Columbia is accepting applications for enrollment. For more information visit http://edtech.usca.edu/.

The focus of the program is to develop capabilities essential to the effective design, evaluation, and delivery of technology-based instruction and training (e.g., software development, multimedia development, assistive technology modifications, web-based development, and distance learning) in order to (1) prepare educators to assume leadership roles in the integration of educational technology into the school curriculum, and (2) to provide graduate-level instructional opportunities for several populations (e.g., classroom teachers, corporate trainers, educational software developers) that need to acquire both technological competencies and understanding of sound instructional design principles and techniques.

Anyone interested in enrolling in this program should contact Karen Morris at 803-641-3489.
28TH ANNUAL S.E.E.D. SCIENCE EDUCATION ENRICHMENT DAY

OCTOBER 12, 2013
10AM - 3PM AT USC AIKEN
RUTH PATRICK SCIENCE EDUCATION CENTER
HTTP://RPSEC.USCA.EDU/SEED/

FOLLOW US ON 

FREE!
THANK YOU SPONSORS

UNIVERSITY OF SOUTH CAROLINA AIKEN
The Ruth Patrick Science Education Center
UNIVERSITY OF SOUTH CAROLINA AIKEN

Savannah River Nuclear Solutions
Federal Credit Union
WAGT26 AUGUSTA CW

Aiken County Public Schools
Each fun-filled, high quality CCSS Mathematics Content Support Session is designed to assist school teams to teach and assess the CCSS - Mathematics during the 2013 -14 bridge year. The goals of each session are to:

- Explore effective instructional strategies for teaching the CCSS Standards
- Examine implications of the Standards for Mathematical Practices on building and improving student competency
- Examine strategies to improve student understanding of mathematics concepts
- Explore effective instructional resources for teaching the standards
- Gain a thorough understanding of SMARTER Balanced Assessment components: Math Content and Item Specifications, Achievement Level Descriptors, and Claims
- Understand how effective implementation of the CCSSM can have a positive impact on classroom instruction and student achievement

Participants will learn strategies for the integration of the mathematical practices, modeling and multiple representations, and instructional technology (e.g. SMART technology, TI NSpire graphing calculator applications, online resources and applets, etc.). Using SMARTER Balanced Assessment Consortium Item and Content Specifications as guides, participants will be able to select or design formative and summative assessment activities that provide evidence of learning and reveal student misconceptions about the mathematics.

<table>
<thead>
<tr>
<th>Date</th>
<th>Grade Band</th>
<th>Area of Emphasis</th>
<th>Status/Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Friday, September 20, 2013</td>
<td>K-2</td>
<td>Counting and Cardinality</td>
<td>Registration Open</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Number and Operations in Base Ten</td>
<td>RPSEC USC Aiken</td>
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<tr>
<td>Friday, November 8, 2013</td>
<td>K-2</td>
<td>Operations and Algebraic Thinking</td>
<td>Registration Open</td>
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<tr>
<td></td>
<td></td>
<td>Measurement and Data</td>
<td>RPSEC USC Aiken</td>
</tr>
<tr>
<td>Friday, January 10, 2014</td>
<td>K-2</td>
<td>Measurement and Data</td>
<td>Registration Open</td>
</tr>
<tr>
<td>Friday, February 28, 2014</td>
<td>K-2</td>
<td>Geometry</td>
<td>Registration Open</td>
</tr>
<tr>
<td>Friday, September 27, 2013</td>
<td>3-5</td>
<td>Number and Operations - Fractions</td>
<td>Registration Open</td>
</tr>
<tr>
<td>Friday, November 22, 2013</td>
<td>3-5</td>
<td>Operations and Algebraic Thinking</td>
<td>RPSEC USC Aiken</td>
</tr>
<tr>
<td>Friday, January 24, 2014</td>
<td>3-5</td>
<td>Measurement and Data</td>
<td>Registration Open</td>
</tr>
<tr>
<td>Friday, March 7, 2014</td>
<td>3-5</td>
<td>Geometry</td>
<td>RPSEC USC Aiken</td>
</tr>
<tr>
<td>Friday, October 11, 2013</td>
<td>6-8</td>
<td>Ratios and Proportional Relationships</td>
<td>Registration Open</td>
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<td></td>
<td></td>
<td>The Number System</td>
<td>RPSEC USC Aiken</td>
</tr>
<tr>
<td>Friday, December 6, 2013</td>
<td>6-8</td>
<td>Expressions and Equations Functions</td>
<td>Registration Open</td>
</tr>
<tr>
<td>Friday, February 14, 2014</td>
<td>6-8</td>
<td>Statistics and Probability</td>
<td>RPSEC USC Aiken</td>
</tr>
<tr>
<td>Friday, March 21, 2014</td>
<td>6-8</td>
<td>Geometry</td>
<td>Registration Open</td>
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<tr>
<td>Friday, October 18, 2013</td>
<td>9-12</td>
<td>Number and Quantity, Algebra</td>
<td>Registration Open</td>
</tr>
<tr>
<td>Friday, December 13, 2013</td>
<td>9-12</td>
<td>Functions</td>
<td>RPSEC USC Aiken</td>
</tr>
<tr>
<td>Friday, February 21, 2014</td>
<td>9-12</td>
<td>Statistics and Probability</td>
<td>Registration Open</td>
</tr>
<tr>
<td>Friday, March 28, 2014</td>
<td>9-12</td>
<td>Geometry</td>
<td>RPSEC USC Aiken</td>
</tr>
</tbody>
</table>

**The Specifics**

**Time:** 8:30am-3:30pm

**Cost:**
- $120 per participant for 1 session
- $440 per participant for 4 sessions in one grade band
- $440 per team of 4 participants for 1 session
- Larger discounts can be given for larger group registrations.
- Lunch and refreshments will be provided.

**Registration:**
Registration forms and information available online: [http://rpsec.usca.edu/ProfessionalLearning/index.asp](http://rpsec.usca.edu/ProfessionalLearning/index.asp)

**Contact Information:**
Gloria Allen - gloriaa@usca.edu or (803) 641-3592

**What People Are Saying About These Workshops**

“I’ve gained so much knowledge about the Common Core Standards through sharing of ideas and conversations with grade level teachers and coaches from other schools and districts.”

“I was surprised by the amount of information I received and the great resources to assist with transitioning into the Common Core…I have learned how to break down the standards and use information to create related activities and assessments.”

“These are wonderful sessions filled with resources and effective information for transitioning to the CCSS.”
2013 National Nuclear Science Week

Education Days

Monday, October 21 - Friday, October 25, 2013
Ruth Patrick Science Education Center (RPSEC) - USC Aiken, SC
Programs: Center of the Atom ■ Chemical Matters ■ Probing the Periodic Table
Nuclear Clean Air Energy IndyCar Display (only Wednesday, October 23 & Thursday, October 24)
For details call 803-641-3313 or contact Deborah McMurtrie at deborahmc@usca.edu

Thursday, October 24, 2013
Georgia Regents University (GRU) College of Allied Health Sciences
Programs: Center of the Atom ■ Fundamentals of Nuclear Fuel ■ Career Opportunities ■ Tours
For details contact Sharron Walls at SHWALLS@gru.edu

Friday, October 25, 2013
USC–Salkehatchie (West Campus) Allendale, SC
Programs: Center of the Atom ■ Fundamentals of Nuclear Fuel
Nuclear Clean Air Energy IndyCar Display
For details contact Joey Espinosa at jespinos@mailbox.sc.edu or 803-584-3446 ext.115

Workforce Development Day

Tuesday, October 22, 2013
Kroc Center, 1833 Broad Street, Augusta, GA ■ 9:00 am - 3:00 pm
For Regional High School Seniors & College Students
Registration Required ■ Attendance Limited ■ Sponsor Supported ■ No Cost to Attendees
For details contact Mindy Mets at mindy.mets@srscro.org or Kim Saxon at kim.saxon@srscro.org

Students will interact with current nuclear professionals, view interesting exhibits and learn about “hot” career topics in the world of nuclear technology—from nuclear medicine to emerging energy technology. Students will choose one morning and one afternoon breakout session (Nuclear Medicine, Nuclear Energy Impact, Nuclear Myths or Savannah River Site). The afternoon Career Workshop will focus on leadership skills, co-op/internship, social media and much more.

Students will meet Simona de Silvestro, driver of the No. 78 Nuclear Clean Air Energy IndyCar.

Site Visit Days

Wednesday, October 23 & Friday October 25, 2013
Southern Nuclear - Plant Vogtle, Waynesboro, GA
Registration Required ■ For details contact Mike McCracken at 706-826-3632 or WMWCCCRAC@southernco.com

Thursday, October 24, 2013
Savannah River Site (SRNS, MOX Services, SRR)
Registration Required ■ More information available soon

DATE—TBD
SCANA – VC Summer
Registration Required ■ For details contact Erica Knight at 803-931-5436 or erica.knight@scana.com

Annual Edward Teller Lecture

Monday, October 21, 2013
USC Aiken Convocation Center - Aiken, SC ■ 6:00 pm - 9:00 pm
Keynote Speaker: Marvin Fertel, President & CEO of Nuclear Energy Institute
For details, visit www.c-n-t-a.com or call 803-649-3456

Citizens for Nuclear Technology Awareness (CNTA) will be sponsoring the annual Edward Teller Lecture to coincide with NNSW 2013. The Teller Lecture is named for the famed nuclear pioneer who played a key role in the development of nuclear energy.

For more details visit www.nwinitiative.org
Area students are invited to participate in the sixth annual Hitchcock Woods essay contest.

The winner receives the Célestine Eustis Prize consisting of a $500 check and his or her name engraved on a sterling silver trophy. The winner is announced at the annual Festival of the Woods to be held Friday, September 27, and Saturday, September 28.

A panel of judges reviews all entries and selects a recipient whose appreciation of the Woods is in the tradition of Célestine Eustis, who purchased land in the pine forests of Aiken more than 130 years ago. She had a passion for flora and fauna, and loved the serenity of the Woods.

Contributors should describe why the Woods are important to them and detail their use and enjoyment of the Woods.

The Célestine Eustis Prize is funded through the generosity of Jane Page Thompson.

Deadline is September 4, 2013
Please visit hitchcockwoods.org for Essay Rules and Entry Form.
Looking for Teachers and STEM professionals Who Were Inspired by the RPSEC

Are you someone who...
• Is a STEM professional or a teacher?
• Has participated in programs at the RPSEC as a student?
• Was excited or intrigued by your visit?
• Was inspired to choose a STEM-related career?
• Has a story to tell about your experience at the RPSEC?

If the answer to any of these questions is YES, please let us know!

This spring, the RPSEC will celebrate 25 years of “Infusing a Love for Science, Technology, Engineering and Mathematics.” We are looking for teachers and STEM professionals who can point to experiences at the RPSEC as being instrumental in helping them make their career choices. We would love to share some of your stories in our upcoming written and videotaped promotional materials.

Please send a message to RPSEC@usca.edu with the following information:
• Your name
• Your vocation
• Contact information: Phone & email
• A brief description of your experience at the RPSEC and how it impacted your career choice
• Permission to quote, videotape, and/or use photograph(s) of you in our 25th anniversary celebration

Please share this information with anyone you know who can answer YES to the question(s) above.