### Executive Board

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>President</td>
<td>Amy Umberger</td>
</tr>
<tr>
<td>President-Elect</td>
<td>Debbie Bishop</td>
</tr>
<tr>
<td>Vice-President</td>
<td>John Hutchens</td>
</tr>
<tr>
<td>Vice-President Elect</td>
<td>Pamela Vereen</td>
</tr>
<tr>
<td>Immediate Past President</td>
<td>Mirandi Squires</td>
</tr>
<tr>
<td>Treasurer</td>
<td>Amy Norgren</td>
</tr>
<tr>
<td>Secretary</td>
<td>Jami Cummings</td>
</tr>
</tbody>
</table>

### District Directors

<table>
<thead>
<tr>
<th>District</th>
<th>Director</th>
<th>Region</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nate Belcher</td>
<td>Beaufort, Berkeley, Charleston, Colleton, Dorchester, Hampton, Jasper</td>
</tr>
<tr>
<td>2</td>
<td>Dana Hutto</td>
<td>Bamberg, Calhoun, Lexington, Richland</td>
</tr>
<tr>
<td>3</td>
<td>Karey Santos</td>
<td>Abbeville, Aiken, Allendale, Barnwell, Edgefield, Greenwood, Laurens, McCormick, Newberry, Saluda</td>
</tr>
<tr>
<td>4</td>
<td>Linda Melcher &amp; Ernest Mackins</td>
<td>Anderson, Greenville, Oconee, Pickens</td>
</tr>
<tr>
<td>5</td>
<td>Becky Cornwell</td>
<td>Cherokee, Chester, Chesterfield, Fairfield, Kershaw, Lancaster, Spartanburg, Union, York</td>
</tr>
<tr>
<td>6</td>
<td>Dee Marshall</td>
<td>Clarendon, Darlington, Dillon, Florence, Georgetown, Horry, Lee, Marion, Marlboro, Sumter, Williamsburg</td>
</tr>
</tbody>
</table>

### Past Presidents

- Mary China Corrie
- Pam Cromer
- Elizabeth Regan
- Troy Bridges
- Anita Bozardt
- Johanna Killoy
- Marty McGinn
- Vicky McLean
- Frances Crawford
- Brenda Evans
- Linda Sinclair
- Mike Farmer
- Wyatt McDaniel III
- Richard A. Porter
- Carolyn Randolph
- Michelle Powell
- Sandy B. Moore
- Norma Ashburn
- Al Heyward
- Mary Levens
- Steve Bell
- Stan Rachelson
- Sally Shive
- Elizabeth Edmondson
- Rosemary Wicker
- Patty Lynch
- Dana Hutto
- Ewart Irick
- Bill Austin
- Marilyn Jenkins
- Holly Sullivan
- Alan Weekes
- Don Poland
- Alice Gilchrist
- Derenda Marshall
- Leann Iacuone
- Mirandi Squires

### Advisory Board

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Archivist</td>
<td>Mary Levens</td>
</tr>
<tr>
<td>Parliamentarian</td>
<td>Ron Shelton</td>
</tr>
<tr>
<td>SC Hall of Science and Technology</td>
<td>-Vacant-</td>
</tr>
<tr>
<td>Newsletter</td>
<td>-Vacant-</td>
</tr>
</tbody>
</table>

### (SC)² Leadership Nominations

To be eligible for an office, the person must be a member in good standing in the organization and the District Directors must teach in the district where they are nominated. Include a resume and a picture with nominations to (SC)².

### The following positions are still open for nomination:

Submit nominations to msquire@flo5.k12.sc.us or squiresmirandi@yahoo.com

- **Vice-President Elect** – The Presidency is a graduating position; you come in as the vice-president elect and move through the positions over a 5 year period.

- **Secretary** (Two year term) - The secretary shall conduct the correspondence of the organization as requested by the President.

- **Newsletter Editor** – The newsletter editor shall publish and disseminate a biannual newsletter to the membership. The newsletter editor will serve as the Chairperson of the Public Relation Committee.

- **District II Director** – (Two year term) Bamberg, Calhoun, Lexington, Orangeburg, Richland
- **District IV Director** – (Two year term) Anderson, Greenville, Oconee, and Pickens
- **District VI Director** – (Two year term) Clarendon, Darlington, Dillon, Florence, Georgetown, Horry, Lee, Marion, Marlboro, Sumter, and Williamsburg

District Directors are available to answer any questions related to (SC)² and serve as your liaison on the Advisory Board. Additionally, during their two-year term in office, they provide valuable resources to members in their district.
President’s Reception
Sponsored by Pearson and School Specialty/FOSS/Delta Education/CPO Science/Frey

Join President Amy Umberger and the South Carolina Science Council Board Members to honor our Past Presidents, Thursday, November 5th, from 5:00PM to 7:00PM.

The reception will take place on the lower level of the Convention Center, outside the Columbia Ballrooms. The outdoor venue will be open for socialization.

Hors d’oeuvres, beer and wine will be served.
Welcome

From the (SC)^2 President…

I am so happy to welcome you to Columbia this year for our 38th Annual gathering of the South Carolina Science Council. Our theme for this year’s conference is “Gearing Up for the South Carolina Academic Standards and Performance Indicators for Science”. Get Ready! You are in for one of the most exciting professional developments you have ever experienced.

We will learn together through engaging workshops and general sessions, as well as keynote speakers led by educators who are passionate about what they do as teaching professionals. I encourage you to take a field experience in or around our capital city. Take advantage of the many networking opportunities during transition times, our Past-Presidents Reception, or just walking to or from your hotel or car. Our vendor hall will be a place filled with excitement and lots of new materials to consider as we begin to implement our new state standards and performance indicators.

If you are new to our conference, we hope you will join us on Thursday morning for breakfast. Also, make time to attend our Business Meeting on Friday morning. This is a time to learn more about our organization and if you have “made a wish” this is where you find out if it comes true.

With the inviting choices available we challenge you to make this conference “your conference”, just as it has been mine now for 14 years. I look forward to seeing each and everyone of you.

Amy Umberger
President
South Carolina Science Council

From the 38th Annual (SC)^2 Science Convention Program Chair…

Welcome to the 38th Annual Science Conference, “Gearing Up”. The theme for this year’s conference is dedicated to all the educators in South Carolina who are Gearing Up for the full implementation of the 2014 South Carolina Academic Standards and Performance Indicators for Science. The conference sessions highlight components of the 2014 Standards, including the Science and Engineering Practices, Crosscutting Concepts, and the Core Content Areas.

In organizing this year’s conference, we paid close attention to offering a diverse choice of sessions, considering grade spans and content. By far, the planned presentations and sessions will provide excellent opportunities for professional growth and will offer opportunities for professional collaboration. Our hope is that you leave this conference with new knowledge, great lessons and activities, and ideas to make your learning environment the best it can be.

As Program Chair, I would be remiss if I did not acknowledge all the hard work from individuals in making this conference a success. Thank you to the presenters, organizers, vendors, and especially those near and dear who have supported the organization and me during this process.

Debbie Bishop
President-Elect, Program Chair
South Carolina Science Council
## Conference Schedule

### Wednesday, November 4, 2015

<table>
<thead>
<tr>
<th>Workshop</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preconference Workshops</td>
<td>9:00AM – 4:00PM</td>
</tr>
</tbody>
</table>

(See Program for Details; Registration is separate for some events)

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration</td>
<td>7:30AM – 6:00PM</td>
</tr>
<tr>
<td>Vendor / Exhibitor Check-In / Set-up</td>
<td>3:00 PM-6:00PM</td>
</tr>
</tbody>
</table>

**SC Department of Education**

See Sessions for times and topics

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### Thursday, November 5, 2015

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration</td>
<td>7:00AM – 6:00PM</td>
</tr>
<tr>
<td>Vendor / Exhibitor Check-In</td>
<td>7:00AM – 9:00AM</td>
</tr>
</tbody>
</table>

**Continental Breakfast**

8:00AM – 9:00AM

Keynote Professor Lawrence Lowery

**General Sessions, Track 1**

9:15AM – 10:00AM

**General Session, Track 2**

10:15AM – 11:00AM

**Keynote Address**

11:15AM – 12:15PM

Brian Campbell, Notebooking

**General Session, Track 3**

1:00PM – 2:15PM

**Break**

2:15PM – 2:45PM

**General Session, Track 4**

2:45PM – 4:00PM

**Presidents Reception**

5:00PM – 7:00PM

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### Friday, November 6, 2015

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration</td>
<td>6:30AM – 10:30AM</td>
</tr>
<tr>
<td>Vendor / Exhibitor Check-In</td>
<td>7:00PM-9:00PM</td>
</tr>
</tbody>
</table>

**Continental Breakfast**

7:00AM – 8:00AM

**SC² Business Meeting**

*Please plan to attend

**General Sessions, Track 1**

9:15AM – 10:00AM

**General Session, Track 2**

10:15AM – 11:00AM

**Keynote Address**

11:15AM – 12:15PM

Chris King, Speedtree Cinema

Dr. Joseph Levine, Welcome to the Anthropocene

A Coast for All Seasons, A Naturalist’s Guide to the Coast of South Carolina

**Lunch Break**

12:15PM – 1:00PM

Concessions Available in Exhibit Hall

**General Session, Track 3**

1:00PM – 2:15PM

**Break**

2:15PM – 2:45PM

**General Session, Track 4**

2:45PM – 4:00PM

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### Exhibit Hall

Thursday 10:00AM – 5:00PM

Friday 9:00AM-3:00PM

- McGraw-Hill Education
- Sundance/Newbridge
- Accelerate Learning
- LearnEd Notebooks
- Delta / FOSS
- Diamond Del’s Gem Mining
- Activate Learning
- Lakeshore Learning Materials
- Homecourt Publishers, LLC
- Frey Scientific / CPO Science
- Tests for Higher Standards/ROSworks
- PASCO, Scientific
- LAB-AIDS
- Explore Learning
- Carolina Curriculum
- National Geographic
- Learning/Cengage Learning
- Sparkpoint Innovations
- Texas Instruments
- Assistant Music
- Houghton Mifflin Harcourt
- Pearson
- Clemson Univ./Youth Learning Institute
- SC Project Learning Tree
- The South Carolina Education Assoc.
- SC Governor’s School for Science and Math
- Roper Mountain Science Center
- South Carolina State Park Service
- Georgia 4-H
- The Citadel
- eCYBERMISSION
- S2TEM Centers SC
- Clemson University, College of Engineering and Science
- Enlighten SC, SC Electric Co-op Assoc.
- PAEMST
- Clemson University - Geology K12 Outreach
- Camp Invention
- South Carolina State Museum
- SCJAS/SCAS
- SC Earth Science Teachers Association
- Palmetto State Teachers Association
- South Carolina ETV
- USC School of Engineering and Computing/PLTW
- Virtual SC
- SRNS (Savannah River Nuclear Solutions)
- SC Sea Grant Consortium
- Richland School District Two

**Concessions in Exhibit Hall**

Thursday - Friday 10:00AM – 2:00PM
**Conference Details**

### Registration Fees

<table>
<thead>
<tr>
<th>Plan Description</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preregistration for (SC)$^2$ Members</td>
<td>$150</td>
</tr>
<tr>
<td>On-site Registration for (SC)$^2$ Members</td>
<td>$180</td>
</tr>
<tr>
<td>Preregistration for Non-members*</td>
<td>$180</td>
</tr>
<tr>
<td>On-site Registration for Non-members*</td>
<td>$210</td>
</tr>
<tr>
<td>Preregistration for Fulltime Students</td>
<td>$ 50</td>
</tr>
<tr>
<td>On-site Registration for Fulltime Students</td>
<td>$ 75</td>
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<tr>
<td>Preregistration for Non-teaching Spouse</td>
<td>$ 20</td>
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<tr>
<td>On-site Registration for Non-teaching Spouse</td>
<td>$ 40</td>
</tr>
<tr>
<td>One Day (Friday) Registration</td>
<td>$100</td>
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</table>

*Non-members who pay a membership fee when registering may register as a member.

### Membership

<table>
<thead>
<tr>
<th>Plan Description</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regular Membership, 1 year</td>
<td>$ 20</td>
</tr>
<tr>
<td>Regular Membership, 3 years</td>
<td>$ 50</td>
</tr>
<tr>
<td>Student Membership, 1 year</td>
<td>$ 10</td>
</tr>
</tbody>
</table>

### Other Fees

Limited parking is available at Columbia Metropolitan Convention Center. Park Street Garage is located directly across the street from the Convention Center. Charges at Park Street Garage are $2 for the first hour and $1 for every additional hour, not exceeding $10.

Registration Fees listed above do not include hotel, parking, transportation or lunch.

### Field Trips

Tickets are required for all field trips offered at the conference. These tickets can be purchased through preregistration or at the Ticket Sales Desk at Registration, if any remain. Shuttle service is provided for most field trips; trips not having shuttle service are within walking distance to the convention.

- **TT1**: CHALLENGER LEARNING CENTER EXPERIENCE  
  $12
- **TT2**: CONGAREE NATIONAL PARK: LAND OF CONSTANT CHANGE  
  $12
- **TT3**: SOUTH CAROLINA STATE HOUSE TOUR  
  Free
- **TT4**: RIVERBANKS ZOO AND GARDENS - BEHIND THE SCENES AFRICAN ADVENTURE TOUR  
  $27
- **TT5**: CONGAREE RIVER KAYAK ADVENTURE  
  $35
- **TT6**: PALMETTO OUTDOOR CENTER-INTERDISCIPLINARY WALKING TOUR  
  Free
- **TT7**: SALUDA SHOALS WETLAND HABITATS  
  $12
- **TT8**: EDVENTURE’S: ENGINEERING 101  
  Free
- **TT9**: NEW LEARNING OPPORTUNITIES AT THE SOUTH CAROLINA STATE MUSEUM  
  $5
- **FT1**: CHALLENGER LEARNING CENTER EXPERIENCE  
  $12
- **FT2**: USC MCKISSIK MUSEUM TOUR AND LUNCH AT THE MCCUTCHEN HOUSE (ticket does not include gratuity)  
  $10
- **FT3**: RIVERBANKS ZOO AND GARDENS – THE LIST: CONSERVATION CHALLENGE TOUR  
  $17
- **FT4**: PALMETTO OUTDOOR CENTER-INTERDISCIPLINARY WALKING TOUR  
  Free
- **FT5**: CONGAREE RIVER KAYAK ADVENTURE  
  $35

### Workshops

Tickets are required to attend all designated workshops. Tickets can be purchased with preregistration or at the Ticket Sales Desk at Registration, if any remain.

- **WS1**: Creating Super Scientists  
  $3
- **WS2**: Model Rocketry: A Highly Motivational STEM Teaching Tool  
  $10
- **WS7**: Geology of South Carolina Workshop  
  $20
- **WS8**: Growing Up Wild  
  $30
- **WS9**: Home and School Science Activities  
  $35
The Executive Board of the South Carolina Science Council announces the “Reach for the Stars” Award in honor of Dr. Mike Farmer, former past president of (SC)2. Dr. Farmer passed away this spring in a car accident.

Dr. Farmer taught Chemistry, Physics, and Astronomy for over 40 years at Riverside High School, Greenville Technical College, and the SC Governor’s School for the Arts & Humanities. During his career, Dr. Farmer served as the President of the Greenville County Science Teachers Association, President of the South Carolina Science Council, President of the South Carolina Academy of Science, and Chairman of the High School Division of the National Science Teachers Association. Dr. Farmer’s accolades include Discover Magazine Teacher of the Year (1984), South Carolina’s candidate for NASA’s Teacher in Space Program (1985), Order of the Palmetto from Governor Richard Riley (1985), the Presidential Award for Excellence in Science and Math Teaching (1987), the National Science Teacher’s Association’s Gustav Ohaus Science Teaching Award (1990), and the Governor’s Award for Science Awareness for South Carolina (1999). Dr. Farmer’s writings are numerous, including his book Science Projects: A Modular Approach and he was working on a book of science and math geared for young artists.
Thursday Keynotes

Opening Session

Lawrence Lowery is a professor emeritus at the University of California at Berkeley. He is affiliated with the Graduate School of Education and the Lawrence Hall of Science. He remains active as the Principle Investigator for the Full Option Science System (FOSS), a research-based, field-tested science curriculum for grades K-8 developed at the Lawrence Hall of Science. He continues to publish and edit articles and books such as the The Kingfisher Science Encyclopedia (New York and London, 1993), Pathways—Guidelines to Implementing the Science Standards (NSTA publication, 1997), How Science Curriculums Reflect Brain Research (Phi Delta Kappan article, November 1998), The Golden Age of Big Little Books, 1932-1938 (Self-published, 2007); The Everyday Science Sourcebook (NSTA publication, 2013); The I Wonder Why Readers (25 NSTA publications, 2013-2016).

Keynote

Brian Campbell is a former elementary teacher from Las Vegas, Nevada. He taught both second and fifth grade and worked with other grades during summer school programs. Under a National Science Foundation grant, he conducted a number of professional development workshops working with teachers at different levels of experience. While teaching, Brian became interested in how students and teachers interact with science notebooks. He worked with a small team of fellow educators and scientists to study how notebooks could be used in classrooms while maintaining integrity to the work scientists do. This work, as well as the information from his students, led him to co-author Science Notebooks: Writing about Inquiry with Lori Fulton. With the focus in education shifting to assessment, Brian was invited to help develop reliable and valid science assessments for his district. As part of this work, he began working with developers of the Full Option Science System (FOSS) to improve the assessments already being used. This led to his involvement on a four-year grant called Assessing Science Knowledge and his eventual employment at FOSS. Currently, Brian works for FOSS as a curriculum developer. He is involved in the revision of the current FOSS materials and professional development specifically focusing on science notebooks and formative assessment.
Dr. Joseph Levine, Former Professor and Science Broadcast Advisor

Joe Levine earned his PhD at Harvard University. His research has been published in scientific journals ranging from Science to Scientific American, as well as in several academic books. He has taught introductory biology, ecology, marine biology, neurobiology, and coral reef biology at Boston College and the Boston University Marine Biology Program. Also a broadcast journalist, Joe has dedicated himself to improving the public understanding of science. He has written for magazines such as Smithsonian, GEO, and Natural History. He has produced radio segments for National Public Radio and has acted as a scientific advisor for public broadcasting at WGBH in Boston. At WGBH, he has worked on NOVA and other PBS series.

Friday, Columbia Ballroom A
11:15 AM – 12:15 PM

Chris King, SpeedTree® Cinema

In 2000, Chris founded Interactive Data Visualization, Inc. (IDV), with Michael Sechrest, also a South Carolina native who was educated in South Carolina public schools and at USC. In 2002, IDV released a 3D virtual vegetation modeling system brand named SpeedTree®. Over the next several years, SpeedTree became the premier software in its space, ultimately emerging as a favorite of video game developers around the world. As of 2015, over 1,000 game titles have used SpeedTree including The Witcher 3: Wild Hunt, Bungie's Destiny, the Batman: Arkham series, Assassin's Creed: Unity, Grand Theft Auto IV, and Elder Scrolls IV: Oblivion. In 2009, a new version of SpeedTree, dubbed SpeedTree® Cinema, was made available to the visual effects industry. The first to adopt was Industrial Light and Magic for their work on the film Avatar. Since then, more than 50 films have used SpeedTree including Jurassic World, Avengers: Age of Ultron, Star Trek Into Darkness, and X-Men: Days of Future Past. Uses in television productions include Game of Thrones, Agents of S.H.I.E.L.D, The Vampire Diaries, and Sesame Street. In 2015, Chris's work on SpeedTree Cinema earned him both a Scientific and Technical Academy Award® and an Engineering Emmy®, honors he shares with co-workers Michael Sechrest and Greg Croft.

Dr. Miles O. Hayes and Dr. Jacqueline Michel

Welcome to the Anthropocene: Using global change to teach crosscutting concepts and core ideas in biology and earth science.

Friday, Columbia Ballroom B
11:15 AM – 12:15 PM

Welcome to the Anthropocene: Using global change to teach crosscutting concepts and core ideas in biology and earth science.

A Coast for All Seasons: A Naturalist's Guide to the Coast of South Carolina, will be provided free to attendees.

Dr. Miles O. Hayes is a coastal geomorphologist with 50 years of experience. He has authored over 250 articles and reports and five books on topics relating to coastal science. Based on extensive field experience throughout the world, he provides rich descriptions of coastal landforms and the processes that mold and shape them. Hayes is a former Professor at the University of South Carolina. Dr. Jacqueline Michel is an internationally recognized expert in coastal ecology and natural resources management. She is President of Research Planning, Inc. and an adjunct professor of the School of the Environment at the University of South Carolina.
**TT1: Challenger Learning Center Experience**  
**$12**  
**Thursday, 8:30AM – 11:30AM**

The Challenger Learning Center is an exciting and hands-on aeronautics and space-themed educational program designed to provide interactive learning experiences, integrating science and math curricula with information and technology. Come experience a simulated space mission… be an engineer in Mission Control and an astronaut on the Space Station! Find out why students say we are the best field trip ever! Participants will also get an overview of other programs offered at Challenger: aerospace/aviation education, robotics, rocketry, and our ePlanetarium.

The (SC)$^2$ Shuttle will depart the Conference Center at 8:30AM and return at 11:30am.

**TT2: Congaree National Park: Land of Constant Change $12**

**Thursday, 8:45AM – 12:30PM**

Join the Congaree National Park Ranger as you learn about the astonishing biodiversity, natural and cultural history of the largest remaining section of bottomland forest in the southeastern United States. Enjoy a 2.4 mile hike along the boardwalk as you go through the floodplain, learning about how the Congaree River has shaped the landscape to be what it is today, how people have used the land, and why it has been protected as a national park.

The (SC)$^2$ Shuttle will depart the Conference Center at 8:45AM and return at 12:30am.

**TT3: South Carolina State House Tour**  
**FREE**

**Thursday, 10:00 – 11:30**

Tour South Carolina’s most recognizable Historic Structure, and learn firsthand the history of our state through this magnificent building’s architecture, history and legislative process. You will gain not only a respect for the past but a sense of responsibility for the future. Inside and out, from foundation to dome, the State House, as a result of the 1995-98 renovation, is in better shape than ever before. The work balanced the need to meet modern code requirements and improved efficiency against a respect for historic form and appearance. Most visitors will never see the structural improvements, the sophisticated electrical wiring, alarm systems, or the state-of-the-art earthquake isolators that were installed. However, everyone will notice the renewal of the House and Senate chambers, the 19th century treatment of the lobby, the vaulted brickwork in the hallways of the lower floor, the restored marble floors and refurbished interior of the dome.

NOTE: Because of the proximity of the SC State House there will not be a shuttle service provided. Participants will meet at the Field Trip Check-In at 10:00am and walk the 2 blocks to the State House.

**TT4: Riverbanks Zoo and Gardens – Behind the Scenes African Adventure Tour $27**

**Thursday, 11:45 – 3:30**

No need for a plane ticket. You can explore the signs and sounds of Africa at Riverbanks Zoo and Garden. Experience the Wild Side as you get an inside look at some out-of-sight places. Encounter animals up close, explore behind the scenes and meet experienced keepers. Participants will wander through the elephant barn while our elephant girls are out for the day. You will see what is required behind-scenes to keep the elephants happy and healthy. Participants will learn about the unique challenges of exotic animal care and the amazing efforts that go into creating and sustaining a world-class zoo. The tour also includes other animal areas and plenty of photo opportunities. Also enjoy some individual exploration of the Zoo and Gardens.

The (SC)$^2$ Shuttle will depart the conference center at 11:45AM and return at 3:30pm.
TT5: Congaree River Kayak Adventure $35
Thursday, 1:00 – 5:00
Join Bill Stangler the Congaree Riverkeeper and other Adventure Carolina guides on this three mile guided kayak trip down the beautiful Congaree River. Come explore the scenic landscape of the Congaree waterways.
This is an excellent trip for a beginner or experienced paddler. Bring your camera, binoculars, and dress for the weather. Hats, sunscreen, and bottled water are recommended.
The Adventure Carolina shuttle will depart the Conference Center at 1:00pm and return at 5:00pm.

TT6: Palmetto Outdoor Center – Interdisciplinary Walking Tour FREE
Thursday, 12:30 – 2:30
Palmetto Outdoor Center offers an interactive riverwalk tour that will excite and engage. The tour highlights and interprets the educationally-rich areas of Columbia and details how the Three Rivers region has shaped Columbia, SC. By combining specific aspects of the riverwalk, the tour covers a variety of topics relating to geography, ecology and, historical events that pertain to the area. By the end of the tour you will be surprised at all the discoveries along the way.
The Palmetto Outdoor Center shuttle will depart the Conference Center at 12:30pm and return at 2:30pm.

TT7: Saluda Shoals Wetland Habitats $12
Thursday, 1:00 – 3:45
Join the Saluda Shoals’ Lead Interpretive Park Ranger as you explore the wetland habitats around Saluda Shoals Park. Saluda Shoals Park is a premier, natural, environmentally sensitive riverfront park that invites visitors to experience the treasures of the Saluda River through exceptional educational, recreational and cultural opportunities. Located along the banks of the beautiful Saluda River.
The (SC)² Shuttle will depart the conference center at 1:00pm and return at 3:45pm.

TT8: EdVenture’s Engineering 101 FREE
Thursday, 3:15 – 5:30
Join EdVenture’s educators as they have participants engage in a series of activities designed to inspire young engineers. Teachers will participate in several engineering challenges that they can take back to their classrooms, as well as explore the museum to learn about our programs and opportunities.
Transportation: Because of the proximity of EdVenture there will not be a shuttle service provided. EdVenture is .08 miles from the Convention Center. Participants should meet in the lobby of EdVenture at 3:15pm.

TT9: New Learning Opportunities at the South Carolina State Museum $5
Friday, 1:00 – 4:00
Explore all the new education opportunities at the State Museum, including the Clue Cross Blue Shield of South Carolina Planetarium, Boeing Observatory, 4D Theater and Julius Caesar Blockbuster exhibit. Your trip will include a brief introduction by one of the State Museum staff to museum educational offerings and time to chat with Boeing Observatory educators about our on-site and distance learning activities. Of course you’ll have time to explore the familiar and new exhibit while there.
Because of the proximity of the State Museum, there will not be a shuttle service provided. The museum is .08 miles from the Convention Center. Participants should meet in the lobby of the State Museum at 1:00.
Field Trips

FT1: Challenger Learning Center Experience  $12
Friday, 8:30 – 11:30
The Challenger Learning Center is an exciting and hands-on aeronautics and space-themed educational program designed to provide interactive learning experiences, integrating science and math curricula with information and technology. Come experience a simulated space mission... be an engineer in Mission Control and an astronaut on the Space Station! Find out why students say we are the best field trip ever!

Participants will also get an overview of other programs offered at Challenger: aerospace/aviation education, robotics, rocketry, and our ePlanetarium.

The (SC)² Shuttle will depart the Conference Center at 8:30AM and return at 11:30am.

FT2: USC McKissik Museum Tour and Lunch at McCutcheon House $10 ($10 *Gratuity is not included in the price of the field trip. Please tip your wait staff accordingly.)
Friday, 10:00 – 12:30
The McKissick Museum is located at the heart of the historic Horseshoe on the Columbia campus of the University of South Carolina. It was established in 1976 by the University Board of Trustees to bring together under one roof the many object collections housed in various departments and colleges across campus. These collections date to 1801 and provide insight into the long and illustrious history of the University. Special focus will be made on the Natural History collection.

Following the tour we will be treated to a gourmet lunch dining experience at the McCutchen House. One of the original buildings erected on the university’s Horseshoe, the McCutchen House was built in 1813 as the second faculty residence on the South Carolina College campus. The students of the School of Hotel, Restaurant and Tourism Management will prepare and serve a four course luncheon. Meals feature their famous tomato pie, soup, salad, plated entrée and dessert bar.

Because of the proximity of the McKissik and McCutchen, there will not be a shuttle service provided. The McKissik and McCutchen are .08 miles from the Convention Center. Participants should meet in the lobby of the McKissik Museum at 10am and are encouraged to car pool if driving.

FT3: Riverbanks Zoo and Gardens – The A List: Conservation Challenge Tour $17
Friday, 11:30 – 3:15
Some celebrities make the “A” list; some animals make the “E” list. Making the list is great for celebrities, but not for animals. Tour the Zoo to see animals that have made the list and animals that have made it off the list. Find out what Riverbanks is doing to get animals off the list and to help prevent animals from making the list in the future. Also enjoy some individual exploration of the Zoo and Gardens. Shuttle will depart conference center at 11:30am and return at 3:15pm.

The (SC)² Shuttle will depart the conference center at 11:30am and return at 3:15pm.
FT4: Palmetto Outdoor Center – Interdisciplinary Walking Tour
Free
Friday, 12:30 – 2:30
Palmetto Outdoor Center offers an interactive riverwalk tour that will excite and engage. The tour highlights and interprets the educationally-rich areas of Columbia and details how the Three Rivers region has shaped Columbia, SC. By combining specific aspects of the riverwalk, the tour covers a variety of topics relating to geography, ecology and, historical events that pertain to the area. By the end of the tour you will be surprised at all the discoveries along the way.

The Palmetto Outdoor Center shuttle will depart the Conference Center at 12:30pm and return at 2:30pm.

FT5: Congaree River Kayak Adventure $35
Friday, 1:00 – 5:00
Join Bill Stangler the Congaree Riverkeeper and other Adventure Carolina guides on this three mile guided kayak trip down the beautiful Congaree River. Come explore the scenic landscape of the Congaree waterways. This is an excellent trip for a beginner or experienced paddler. Bring your camera, binoculars, and dress for the weather. Hats, sunscreen, and bottled water are recommended.

The Adventure Carolina shuttle will depart the Conference Center at 1:00pm and return at 5:00pm. Please note that this trip will end after the Conference ends, so you will need to take all of your belongings with you when you depart the Conference Center.
Wednesday Schedule

Wednesday, 1:00 – 1:45
Session 74, Carolina A
Navigating the 2014 SC Science Standards
Participants will decode the standards and review the support documents for the 2014 SC Academic Standards and Performance Indicators for Science.

Type of Session: Presentation
Intended Audience: K-5
Participant Limit: 50+
Presenter(s): Dr. Regina E. Wragg
Time: 45 Minutes

Wednesday, 2:00 – 2:45
Session 75, Carolina A
Navigating the 2014 SC Science Standards
Participants will decode the standards and review the support documents for the 2014 SC Academic Standards and Performance Indicators for Science.

Type of Session: Presentation
Intended Audience: 6-8
Participant Limit: 50+
Presenter(s): Dr. Regina E. Wragg
Time: 45 Minutes

Wednesday, 3:00 – 3:45
Session 76, Carolina A
Navigating the 2014 SC Science Standards
Participants will decode the standards and review the support documents for the 2014 SC Academic Standards and Performance Indicators for Science.

Type of Session: Presentation
Intended Audience: 9-12
Participant Limit: 50+
Presenter(s): Dr. Regina E. Wragg
Time: 45 Minutes

Wednesday, 10:30AM – 8:30PM
Workshop 10, State Museum
South Carolina State Museum and the Boeing Observatory

Intended Audience: ALL
The South Carolina State Museum offers a FREE workshop for teachers in the museum’s state-of-the-art Boeing Observatory. Workshop participants will learn how to remotely operate the 1926 Alvan Clark telescope and take still images and video of day and night sky objects. Teachers also will receive training in image processing software that they will share with their students. Once trained, educators will be able to operate the observatory from the classroom during a free distance learning program. Professional development is intended for elementary and middle school educators who teach astronomy. Lunch and dinner are provided.

Certificates & Credits Available!

Participant Limit: 12

Wednesday, 1:00 – 2:15
Session 77, Carolina B
What Everyone Ought to Know About the New South Carolina Mathematics Standards
Participants will gain an understanding of the expectations of the new South Carolina College- and Career-Ready Standards for Mathematics and explore resources and support documents aligned to the expectations of those standards.

Type of Session: Hands-On Workshop
Intended Audience: K-5, 6-8, 9-12
Participant Limit: 50+
Presenter(s): Lindsay Boozer
Time: 1 Hour 15 minutes
Wednesday, 1:00 – 2:15  
Workshop 9, Congaree A  
Home and School Science Activities  
Price: $35  
Intended Audience: 6-8  
Focusing on literacy and achieving a progression to higher levels based on everyday physical science. Receive 2 resource books, lessons and materials. Focus: Air pressure, forces, changes in state and Bernoulli.  
Presenter(s): Bernie Horvath

Wednesday, 1:00 – 4:00  
Workshop 8, Richland C  
Growing Up Wild  
Price: $30  
Intended Audience: K-5  
The Growing Up Wild Workshop, similar to Project Wild, contains curricula for those teaching ages 3-7. It uses a wide range of hands-on-activities to generate a child’s sense of wonder about nature. Growing Up Wild (ages 3-7) – connects young children with nature and the outdoors with 25 activities focused on wildlife. This program builds on children’s sense of wonder about nature and invites them to explore wildlife and the world around them.  
Focus: Planning and carrying out investigations, Analyzing and interpreting data, Constructing explanations (for science) and designing solutions (for engineering), Obtaining, evaluating, and communicating information  
Presenter(s): Nancy & Ray Thompson  
Time: 3 Hours

Wednesday, 1:00 – 4:00  
Workshop 2, Richland A  
Model Rocketry: A Highly Motivational STEM Teaching Tool  
Price: $10  
This is an introduction to Model Rocketry, Newton’s Laws of Motion and Aerospace STEM Concepts. Teachers will build and launch a Model Rocket.  
Presenter(s): Dr. Edward P. Donovan & Sharon L. Donovan  
Time: 2 Hour 30 minutes

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**THE CITADEL**  
**STEM Center & The Citadel**  
**M.Ed. in Interdisciplinary STEM Education (Online Degree)**  
**FIND OUT MORE ABOUT OUR PROGRAMS**  
**CONTACT:**  
Dr. Jennifer Albert  
ejbert@citadel.edu  
Tel 843-953-6091
### Thursday Schedule

**Thursday, 7:15 – 7:45**

**Meet and Greet Continental Breakfast, Columbia A**

SC2 Board Members welcome you to the Opening Session of the Conference.

**Thursday, 8:00 – 9:00**

**OPENING SESSION, Columbia A**

Dr. Lowery

**Thursday, 9:15 – 10:00**

**Session 81, Carolina A**

**Assessment of Science and Assessment AS Science**

Measurement is a fundamental part of all science. It starts with counting and moves on up. As the different fields of science have matured so have the measurements used. Assessment or testing is a scientific field, too. Its measurements are growing in sophistication. This presentation will focus on both science assessment in SC, uncovering how assessment is science, and what that implies. The presentation will leave time for discussion.

**Type of Session**: Presentation  
**Intended Audience**: ALL  
**Participant Limit**: 26-50  
**Presenter(s)**: David Mott, Tests for Higher Standards / PO Works  
**Time**: 45 Minutes

**Thursday, 9:15 – 10:00**

**Session 45, Congaree A**

**Gearing Elementary Students Up for NGSS!**

Participants will examine multi-level books to see how young students can understand disciplinary core ideas while incorporating literacy skills. Participants will also receive sample books.

**Type of Session**: Presentation  
**Intended Audience**: K-5  
**Participant Limit**: 26-50  
**Addresses**: Core Content  
**Presenter(s)**: Judy Smith  
**Time**: 45 Minutes

**Thursday, 9:15 – 10:00**

**Session 9, Carolina B**

**South Carolina Science Olympiad - How to Get Involved**

Come learn more about Science Olympiad - the nation's most exciting interscholastic academic competition! Learn how to prepare your students to compete in events from a wide range of STEM disciplines, including biology, chemistry, earth science, physics, and technology.

**Type of Session**: Presentation  
**Intended Audience**: 6-8, 9-12  
**Participant Limit**: 26-50  
**Addresses**: Core Content  
**Presenter(s)**: Bret Clark  
**Time**: 45 Minutes

**Thursday, 9:15 – 10:00**

**Session 46, Congaree B**

**Electromagnetic Waves and the relationship between color and energy.**

We will use real issues to explore the properties of light by investigating the colors of the visible spectrum and the energy of each color.

**Type of Session**: Hands-On Workshop  
**Intended Audience**: 6-8  
**Participant Limit**: 26-50  
**Addresses**: Science and Engineering Practices  
**Presenter(s)**: John Garrett  
**Time**: 45 Minutes

**Thursday, 9:15 – 10:30**

**Session 16, Richland A**

**Teaching Chemistry Just Got Easier!**

With the CPO Science Link series Chemistry Models, students will use the Atom Building Game and Periodic Table Tiles to explore and learn more than 20 concepts; including Atomic & Molecular structures, Compounds & Bonding, Formulas & Balancing Equations just to name a few! Link features include online materials and tablet-enabled investigations.

**Type of Session**: Hands-On Workshop  
**Intended Audience**: 6-8, 9-12  
**Addresses**: Core Content  
**Presenter(s)**: Alex Headen  
**Time**: 1 Hour 15 minutes
Thursday Schedule

Thursday, 9:15 – 10:00

Session 36, Richland C
Incredible Journey of Water (Project WET)
This simulation begins with a study of the earth’s water and participants travel through the water cycle from the perspective of a water droplet.
Type of Session: Hands-On Workshop
Intended Audience: 4-6
Participant Limit: 1-25
Addresses: Earth and Space Sciences
Presenter(s): Heather Mims and Terri Cosby
Time: 45 Minutes

Thursday, 9:15 – 10:00

Session 3B, Lexington A
ADAPTIVE and PURPOSEFUL Technology for SC Science Classrooms
Is technology a burden or is it enabling you to go farther and faster with ease? In this session you’ll see how classroom technology can be adaptive and purposeful, can meet you anywhere, and take you everywhere you want to go.
Type of Session: Presentation
Intended Audience: 6-8, 9-12
Addresses: Core Content
Presenter(s): Jason Marshall
Time: 45 Minutes

Thursday, 9:15 – 10:30

Session 63, Lexington B
Argumentation: Developing oral language skills through scientific inquiry and the new SC Physical Science Light Standards
Scientists use evidence to support (or argue against) claims. Explore strategies/resources your students can use (from FOSS) to form logical arguments based on substantive claims, reasoning, and relevant evidence. Go home with ideas and samples how to implement the new South Carolina Academic Standards and Performance Indicators in your classroom.
Type of Session: Hands-On Workshop
Intended Audience: K-2
Participant Limit: 30-35
Presenter(s): Marilyn Enoch
Time: 1 Hour 45 minutes

Thursday, 9:15 – 10:00

Session 37, Richland B
STEM: Investigating Touch Screen Devices
Have you ever wondered how a touch screen device works? Join the Smithsonian and Carolina to investigate static electricity and capacitive touch screens.
Type of Session: Hands-On Workshop
Intended Audience: 6-8
Participant Limit: 1-25
Addresses: Science and Engineering Practices
Presenter(s): Carolina Curriculum
Time: 45 Minutes

Thursday, 10:15 – 11:00

Session 79, Columbia A
The Building Blocks of STEM
Learn how to build on the STEM foundation while providing opportunities for students to engage in deep, contextual learning embedded in environmental science.
Type of Session: Hands-On Workshop
Intended Audience: 6-8
Participant Limit: 26-50
Presenter(s): Dr. Deanna Taylor
Time: 45 Minutes

Thursday, 10:15 – 11:00

Session 52, Columbia B
Science Tool Time
We will have our own "Tool Time" to show how scientific notebooks can help organize and streamline classroom instruction, as the latest standards are implemented.
Type of Session: Presentation
Intended Audience: 6-8, High School Biology
Participant Limit: 50+
Addresses: Core Content
Presenter(s): LearnEd Notebooks
Time: 45 Minutes
Thursday Schedule

Thursday, 10:15 – 11:00
Session 62, Columbia C
SC Science Matters Supports Science and Engineering Practices
SC Science Matters is a National Science Teachers Association (NSTA) initiative that links science teachers to one another and to professional development opportunities in support of the Science and Engineering Practices. It is also a pipeline to information regarding science education initiatives and professional development in SC. Come join us and learn how you can access some of the resources of NSTA without being a member.

Type of Session: Presentation
Intended Audience: All Levels
Participant Limit: 26-50
Presenter(s): Linda D. Sinclair
Time: 45 Minutes

Thursday, 10:15 – 11:00
Session 62, Columbia C
SC Science Matters Supports Science and Engineering Practices
SC Science Matters is a National Science Teachers Association (NSTA) initiative that links science teachers to one another and to professional development opportunities in support of the Science and Engineering Practices. It is also a pipeline to information regarding science education initiatives and professional development in SC. Come join us and learn how you can access some of the resources of NSTA without being a member.

Type of Session: Presentation
Intended Audience: All Levels
Participant Limit: 26-50
Presenter(s): Linda D. Sinclair
Time: 45 Minutes

Thursday, 10:15 – 11:00
Session 53, Carolina B
Succeeding with S.T.E.A.M.
Presenters will also share practical implementation strategies for integrating STEAM in all curricular areas, and offer solutions to possible challenges of developing a STEAM initiative.

Type of Session: Presentation
Intended Audience: K-5
Participant Limit: 26-50
Addresses: Core Content
Presenter(s): Sabrina Fair, Jennifer Faulkner

Thursday, 10:15 – 11:00
Session 50, Congaree A
STEM on a budget: How to use dollar store finds in your classroom
During this presentation you will be provided with ways to incorporate dollar store items into your STEM challenges. We will provide you with explanations and models from our classroom experiences, as well as, lesson plans to take back to your classroom. You will also have the chance to work through some of the challenges the way that a student would. As newer teachers, we realize that money sometimes gets in the way of having students perform labs so we found ways to get around that with our dollar store items. Our goal is to show you how simple supplies can help students create complex STEM activities.

Type of Session: Hands-On Workshop
Intended Audience: 6-8
Participant Limit: 1-25
Addresses: Science and Engineering Practices
Presenter(s): Emily Avery, Brittany Miller
Time: 45 Minutes

Thursday, 10:15 – 11:00
Session 72, Columbia C
Elementary Engineering: STEM Accreditation
Learn how students Plan, Create, and Improve STEM related projects in an Engineering Lab using the Engineering Design Process at Mount Lebanon Elementary School, STEM Accredited School.

Type of Session: Presentation
Intended Audience: K-5
Addresses: Science and Engineering Practices
Presenter(s): Tish Goode and Elliott

Thursday, 10:15 – 11:00
Session 28, Carolina A
Elementary Engineering: STEM Accreditation
Learn how students Plan, Create, and Improve STEM related projects in an Engineering Lab using the Engineering Design Process at Mount Lebanon Elementary School, STEM Accredited School.

Type of Session: Presentation
Intended Audience: All Levels
Participant Limit: 26-50
Presenter(s): Tish Goode and Elliott

Thursday, 10:15 – 11:00
Session 53, Carolina B
Succeeding with S.T.E.A.M.
Presenters will also share practical implementation strategies for integrating STEAM in all curricular areas, and offer solutions to possible challenges of developing a STEAM initiative.

Type of Session: Presentation
Intended Audience: K-5
Participant Limit: 26-50
Addresses: Core Content
Presenter(s): Sabrina Fair, Jennifer Faulkner

Thursday, 10:15 – 11:00
Session 67, Lexington A
Fun and easy K-2 STEM lessons that combine the Science and Engineering Practices, Cross Cutting Concepts and Disciplinary Core Ideas (plus ELA).

Type of Session: Hands-On Workshop
Intended Audience: K-2
Participant Limit: 30-35
Addresses: Science and Engineering Practices
Presenter(s): Marilyn Enoch
Time: 1 Hour 15 minutes
Thursday, 10:15 – 11:00
Session 38
STEM: Experimenting with Forces and Motion
Use stations to determine what students know about forces, energy and motion. Come explore using Smithsonian and Carolina materials.
Type of Session: Hands-On Workshop
Intended Audience: 6-8
Participant Limit: 1-25
Addresses: Science and Engineering practices
Presenter(s): Carolina Curriculum
Time: 45 Minutes

Thursday, 10:15 – 11:00
Session 3A
ADAPTIVE and PURPOSEFUL Technology for SC Science Classrooms
Is technology a burden or is it enabling you to go farther and faster with ease? In this session you’ll see how classroom technology can be adaptive and purposeful, can meet you anywhere, and take you everywhere you want to go.
Type of Session: Presentation
Intended Audience: 6-8, 9-12
Addresses: Core Content
Presenter(s): Jason Marshall
Time: 45 Minutes

Thursday, 11:15 – 12:15
KEYNOTE – Brian Campbell
Thursday, 12:15 – 1:00
Lunch Break (Concessions in Vendor Hall)
Vendor Hall Open
Thursday, 1:00 – 2:15
Session 4, Carolina B
Improving Science Instruction: How Do You Know If What You Are Doing Is Working?
Participants will see classroom techniques and strategies that have proven to increase student understanding of science in low achieving schools. This session will address how to meet state standards, question students, provide constructive feedback, and measure what students understand. Ideas can be used on Monday when you return to school. All handouts will be given to participants.
Type of Session: Presentation
Intended Audience: ALL
Presenter(s): Manley Midgett, NSTA District VI Director
Time: 1 hour 15 Minutes

Thursday, 1:00 – 2:15
Session 11, Columbia A
Science and Engineering Practices in the Early Childhood Classroom
What do the Science and Engineering Practices look like in the early childhood classroom? Come and experience two centered based investigations from the new Smithsonian STC Kindergarten program.
Type of Session: Hands-On Workshop
Participant Limit: 26-50
Addresses: Science and Engineering Practices
Presenter(s): Ellen Mintz
Presenter(s): Marquita Woodard
Thursday Schedule

Thursday, 1:00 – 2:15

Session 90, Columbia B
Think like an Engineer using the Science and Engineering Practices
The presenter will engage the group in a deep discussion with Science and Engineering Practices and connection to thinking like an engineer using the engineering design process. The participants will engage in engineering task that make connections to the practices and engineering design process.

Type of Session: Hands-On Workshop, Presentation

Intended Audience: All Levels
Participant Limit: 26-50
Addresses: Science and Engineering Practices
Presenter(s): Dr. Jacquely Walton
Time: 1 Hour 15 minutes

Session 85, Columbia C
What Happens to Properties When I Combine Substances?
Chemistry lesson from IQWST. Investigate, analyze data of chemical reaction. Participants will practice how to help students construct arguments from evidence and their questioning skills.

Type of Session: Hands-On Workshop

*Safety: Wear goggles

Intended Audience: 6-8
Participant Limit: 1-25
Addresses: Crosscutting Concepts
Presenter(s): Debbe Bingaman
Time: 1 Hour 15 minutes

Thursday, 1:00 – 2:15

Session 91, Richland C
What Happens to Properties When I Combine Substances?
Chemistry lesson from IQWST. Investigate, analyze data of chemical reaction. Participants will practice how to help students construct arguments from evidence and their questioning skills.

Type of Session: Hands-On Workshop

*Safety: Wear goggles

Intended Audience: 6-8
Participant Limit: 1-25
Addresses: Crosscutting Concepts
Presenter(s): Debbe Bingaman
Time: 1 Hour 15 minutes

Thursday, 1:00 – 2:15

Session 69, Congaree A
Using Technology and Note-booking to go from a concrete thinker to an abstract thinker.
Today’s world requires people to think in an abstract manner. Learn how to use hands-on activities, technology, and note-booking to take your learner from being a concrete thinker to an abstract thinker. Hand-outs and door prizes included!

Type of Session: Hands-On Workshop (Nonticketed)

Intended Audience: K-5
Participant Limit: 1-25
Presenter(s): Christy Papala
Time: 1 Hour 15 minutes

Thursday, 1:00 – 2:15

Session 14, Richland A
Heredity and Adaptations with CPO Crazy Traits
Explore concepts such as Adaptations, Biodiversity, Dominant and Recessive traits, Alleles, Genotypes, Phenotypes, Punnet Squares and more! No better way to teach Genetics and Heredity!

Type of Session: Hands-On Workshop

Intended Audience: 6-8, 9-12
Participant Limit: 26-50
Addresses: Science and Engineering Practices
Presenter(s): Alex Headen
Time: 1 Hour 15 minutes
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Title</th>
<th>Type of Session</th>
<th>Intended Audience</th>
<th>Participant Limit</th>
<th>Address(es)</th>
<th>Presenter(s)</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thursday, 1:00 – 2:15</td>
<td>Session 59, Congaree A</td>
<td>Energy transfer - Electricity and magnetism</td>
<td>Active session, which models &quot;Cause-Effect&quot; and &quot;Stability - Change&quot; using grade 3rd energy standards. (Sample materials, lessons, and science notebooking strategies will be provided.)</td>
<td>Hands-On Workshop</td>
<td>primarily grade 3</td>
<td>1-25</td>
<td>Science and Engineering Practices / Crosscutting Concepts</td>
<td>Jeanne McKinney</td>
<td>1 Hour 15 minutes</td>
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<tr>
<td>Thursday, 1:00 – 2:15</td>
<td>Session 65, Lexington B</td>
<td>Energy transfer - Electricity and magnetism</td>
<td>Learn how to incorporate the best practices from language arts instruction to support your students' understanding of science concepts and their ability to communicate that understanding. Go home with ideas and samples to use in the classroom immediately.</td>
<td>Hands-On Workshop</td>
<td>K-5</td>
<td>30-35</td>
<td>Science and Engineering Practices</td>
<td>Marilyn Enoch, School Specialty</td>
<td>1 Hour 15 minutes</td>
</tr>
<tr>
<td>Thursday, 1:00 – 2:15</td>
<td>Session 68, Lexington A</td>
<td>Energy transfer - Electricity and magnetism</td>
<td>Using Science Notebooks to Impact Student Learning with FOSS</td>
<td>Hands-On Workshop</td>
<td>K-5, 6-8</td>
<td>30-35</td>
<td>Science and Engineering Practices</td>
<td>Brian Campbell</td>
<td>45 Minutes</td>
</tr>
<tr>
<td>Thursday, 2:45 – 4:00</td>
<td>Session 80, Columbia A</td>
<td>Energy transfer - Electricity and magnetism</td>
<td>Jump on the SEP-STEM Rollercoaster</td>
<td>Hands-On Workshop</td>
<td>K-5</td>
<td>30-35</td>
<td>Science and Engineering Practices</td>
<td>Tom Gauntt, Pearson Science Specialist</td>
<td>1 Hour 15 Minutes</td>
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</tbody>
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Thursday, 1:00 – 2:15
### Thursday, 2:45 – 4:00

**Session 47, Columbia B**  
**Using Problem-Based Learning for Effective Science Instruction**

Participants will learn how to implement problem-based learning in the science classroom.

**Type of Session:** Hands-On Workshop  
**Intended Audience:** K-5, 6-8, 9-12  
**Participant Limit:** 1-25  
**Addresses:** Core Content  
**Presenter(s):** Tonya Smith  
**Time:** 1 Hour 15 minutes

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**Session 7, Congaree A**  
**Pasta Car Challenge**

Design a race car made from various types of pasta that will travel 150 cm the fastest and that is built within the allowed budget.

**Type of Session:** Hands-On Workshop  
**Intended Audience:** 5th - 6th  
**Participant Limit:** 1-25  
**Addresses:** Science and Engineering Practices  
**Presenter(s):** Charlene Allen and Cindy Kennington  
**Time:** 1 Hour 15 minutes

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**Session 8, Congaree B**  
**Population Connections**

This workshop uses population data to present/apply key science concepts regarding resource management. Participants will receive a variety of activities that integrate all content areas.

**Type of Session:** Hands-On Workshop  
**Intended Audience:** 3rd - 8th  
**Participant Limit:** 30  
**Addresses:** Core Content  
**Presenter(s):** Karey Santos  
**Time:** 1 Hour 15 minutes

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**Session 13, Carolina B**  
**Enhance your Science Curriculum with Text Sets**

Build interest and content knowledge with Text Sets in your science classroom. Participants will learn how to create a resource that supports all learning styles.

**Type of Session:** Presentation  
**Intended Audience:** 6-8, 9-12  
**Participant Limit:** 1-25  
**Addresses:** Core Content  
**Presenter(s):** Lucia K. Jacobs

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**Session 15, Richland A**  
**STEM Investigations using CPO Wind Turbine**

With the CPO Science Link series Wind Turbine, students explore concepts in Engineering Design, Energy Transformation, Electromagnetism, and much more! Students will design, test, and refine a working turbine and challenge each other to see which model can generate the highest voltage with the unique equipment module. Link features include online materials and tablet-enabled investigations.

**Type of Session:** Hands-On Workshop  
**Intended Audience:** 6-8, 9-12  
** Participant Limit:** 26-50  
**Addresses:** Science and Engineering Practices  
**Presenter:** Alex Headen  
**Time:** 1 Hour 15 minutes
Thursday, 2:45 – 4:00

Session 73, Richland B

Don’t Just Talk About Environmental Issues, Solve Them

Students research previous solutions to the world’s environmental problems then work through the engineering process to develop a working model for their own invention to solve the issue.

Type of Session: Hands-On Workshop

Intended Audience: 9-12

Participant Limit: 1-25

Safety: We will use soldering devices and circuits so participants will need to follow safety standards for working with hot materials.

Addresses: Science and Engineering Practices

Presenter(s): Andie Anderson

Time: 1 Hour 15 minutes

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Thursday, 2:45 – 4:00

Session 33, Richland C

Ed-Tech and the 2014 SEPs

Participants will have hands-on experience with technology (Scratch and Makey Makey) as they explore how Ed-Tech supports implementation of the 2014 SC Science and Engineering Practices and problem-based learning.

Type of Session: Hands-On Workshop

Intended Audience: 6-8

Participant Limit: 1-25

Addresses: Science and Engineering Practices

Presenter(s): Andrew Youngblood and Sabrina Myers

Time: 1 Hour 15 minutes

Special Requests: Due to a limited number of laptops, attendees are encouraged to bring their own laptop to be able to access the online software, Scratch.

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Check out this year’s winners.

www.scdhec.gov/champions
Thursday, 2:45 – 4:00
Session 64, Lexington B
Argumentation: Developing oral language skills through scientific inquiry
Scientists use evidence to support (or argue against) claims. Explore strategies, and resources your students can use (from FOSS) to form logical arguments based on substantive claims, reasoning, and relevant evidence. Go home with ideas and samples to use in the classroom immediately.
Type of Session: Hands-On Workshop
Intended Audience: 3-5
Participant Limit: 30-35
Addresses: Science and Engineering Practices
Presenter(s): Marilyn Enoch, School Specialty
Time: 1 Hour 15 minutes

Thursday, 5:00 – 7:00
President’s Reception
Columbia Ballroom Prefunction (Outside Columbia Ballrooms)
Friday, 7:15 – 7:45
Continental Breakfast, Columbia Ballroom

Friday, 8:00 – 9:00
Business Meeting, Columbia Ballroom A
Plan to attend and find out what it means to be part of South Carolina Science Council. All are invited to attend and we look forward to seeing you there.
*Winners of Make-a-Wish will be awarded during this time.

Friday, 9:15 – 10:00
Session 17, Carolina A
Using Digital Tools for Student Evaluation and Communication
Students can use document cameras to evaluate and communicate their understandings in ways that make learning fun including dissection documentaries and stop motion animation.
Type of Session: Presentation
Intended Audience: 9-12
Participant Limit: 1-25
Addresses: Science and Engineering Practices
Presenter(s): Susan H. Turner
Time: 45 Minutes

Friday, 9:15 – 10:00
Session 72, Carolina B
Engineering/ Technology Design, It’s Not Just for IB
While Experimental Design helps us learn new science, Engineering / Technology Design applies that knowledge in ways to help solve problems. See how to bring this exciting component to your classroom! Your students will love it! Participants will be provided with example templates that can be revised as needed.
Type of Session: Presentation
Intended Audience: 6-8
Participant Limit: 1-25
Presenter(s): Dr. Donna M. Petty
Time: 45 Minutes

Friday, 9:15 – 10:00
Session 55, Congaree B
Mind Anchoring
In this session the presenter will discuss how anchor charts can be used to help students visually conceptualize content. Participants will learn how anchor charts are created by using indicators as a guide for student interaction.
Type of Session: Presentation
Intended Audience: 6-8
Participant Limit: 1-25
Addresses: Core Content
Presenter(s): Vita Segars
Time: 45 Minutes
Friday, 9:15 – 10:00
Session 25, Congaree A
Plate tectonics: Moving Boundaries
Participants will be engaged in hands-on and computer-based inquiry activities that can be used to help students gain a deeper understanding of plate tectonics.

**Type of Session:** Hands-On Workshop

**Intended Audience:** 6-8

**Participant Limit:** 1-25

**Safety:** There are safety precautions necessary.

**Addresses:** Core Content

**Presenter(s):** Kaye-Ann Williams, Keisha Amponsah, Lynne Thomas, Casey Kilareski, Rolando Curabo

**Time:** 45 Minutes

**Special Requests:** Participants will need a technological device to complete computer-based simulations, for example I-pad, Chromebooks, Laptops, Tablets, etc

Friday, 9:15 – 10:00
Session 86, Richland A
OMG Earth
In this workshop earth science teachers will create an OMG! reference fold-ables connected to the Disciplinary Core Ideas from Next Generation Science Standards.

**Type of Session:** Hands-On Workshop

**Intended Audience:** 6-8

**Participant Limit:** 26-50

**Addresses:** Core Content

**Presenter(s):** Amy Gilbert, Ph.D.

**Time:** 45 Minutes

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Friday, 9:15 – 10:00
Session 26, Richland B
Prove It! Connecting Science and Literacy through Supporting Claims with Evidence (Part 1).
Want your students to write what they know? In part 1, you will dissect rigorous writing prompts and align them with Science and ELA standards.

**Type of Session:** Presentation

**Intended Audience:** K-5

**Participant Limit:** 26-50

**Addresses:** Science and Engineering Practices

**Presenter(s):** Ed Emmer, Gina Rodriguez

**Time:** 45 Minutes

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Friday, 9:15 – 10:00
Session 43, Richland C
Using Science Concepts to Define Nuclear Engineering Problems
Identify scientific principles important in designing shielding that will protect people from harmful nuclear emissions through a series of easy to perform classroom simulations.

**Type of Session:** Hands-On Workshop

**Intended Audience:** 6-8

**Participant Limit:** 1-25

**Addresses:** Science and Engineering Practices

**Presenter(s):** John Wagner

**Time:** 45 Minutes

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Friday, 9:15 – 10:00
Session 54, Lexington A
Using a flipped classroom model to increase inquiry activities
Moving direct instruction to individual learning spaces allows for more student-centered, in-depth, inquiry activities.

**Type of Session:** Presentation

**Intended Audience:** 6-8, 9-12

**Participant Limit:** 1-25

**Addresses:** Asking questions (for science) and defining problems (for engineering), Planning and carrying out investigations, Obtaining, evaluating, and communicating information

**Presenter(s):** Christina Crawford and Erin Jackson
Friday, 9:15 – 10:30
Session 66, Lexington B
What Causes Change of Motion?
Design and create conceptual and physical models to explain how something works and look at cause/effect in controlled experiments.
Type of Session: Hands-On Workshop
Intended Audience: K-5
Participant Limit: 1-25
Addresses: Crosscutting Concepts
Presenter(s): Marilyn Enoch, School Specialty
Time: 1 Hour 15 minutes

Friday, 10:15 – 11:00
Session 40, Columbia A
Statewide Science Assessment
We will be presenting information about the 2017 Science SCPASS and Biology EOCEP. We will include general information and sample question types.
Type of Session: Presentation
Intended Audience: 4-8, Biology (testing grades)
Participant Limit: 50+
Addresses: Science and Engineering Practices
Presenter(s): Llewellyn Shealy and Kirsten Hural, SC State Department of Education
Time: 45 Minutes

Friday, 10:15 – 11:00
Session 18, Carolina A
Using the Modeling(TM) Method in High School Science
The Modeling(TM) method is an exciting way to teach science, and this presentation will discuss implementation in high school science courses.
Type of Session: Presentation
Intended Audience: 9-12
Participant Limit: 1-25
Addresses: Science and Engineering Practices
Presenter(s): Nathan Belcher
Time: 45 Minutes

Friday, 10:15 – 11:00
Session 31, Columbia B
Building Block of Science - Light and Sound
1st grade physical science standards Exploring Light and Shadows will be explored using the Building Blocks of Science unit titled Light and Sound. Teachers will experience investigations to address the South Carolina Academic Standards and Performance Indicators.
Type of Session: Hands-On Workshop
Intended Audience: K-5
Participant Limit: 26-50
Addresses: Core Content
Presenter(s): Ellen Mintz
Time: 45 Minutes

Friday, 10:15 – 11:00
Session 82, Columbia C
The Monarch, Milkweed and Migration Project
Migrate through cross-cutting concepts and disciplinary core ideas by engaging students in the monarch marathon through eastern North America each spring and fall. Learn how to participate in the USC Monarch, Milkweed and Migration Project.
Type of Session: Presentation
Intended Audience: All
Participant Limit: None
Addresses: Science and Engineering Practices
Presenter(s): Dr. Arlene Marturano, Assistant Director Center for Science Education, University of South Carolina
Time: 45 Minutes
Friday, 10:15 – 11:00
Session 44, Congaree A
SCESTA - Earth/Environmental Science Share-A-Thon
SCESTA (South Carolina Earth Science Teachers Association) members showcase exemplary standards-based activities in earth/environmental science suitable for a variety of grade levels.
Type of Session: Presentation
Intended Audience: All Levels
Participant Limit: 26-50
Addresses: Core Content
Presenter(s): John Wagner
Time: 45 Minutes

Friday, 10:15 – 11:00
Session 87, Richland A
OMG Life
In this workshop life science teachers will create several foldables (called OMGs!) that are aligned to Disciplinary Core Ideas in the Next Generation Science Standards.
Type of Session: Hands-On Workshop
Intended Audience: 6-8
Participant Limit: 26-50
Addresses: Core Content
Presenter(s): Amy Gilbert, Ph.D.
Time: 45 Minutes

Friday, 10:15 – 11:00
Session 22, Congaree B
Classroom Management
Not for the weak of heart...screaming will occur...don’t be afraid... come and find out some tips and tricks to make your classroom more manageable.
Type of Session: Presentation
Intended Audience: All Levels
Participant Limit: 50+
Presenter(s): Alice Gilchrist
Time: 45 Minutes

Friday, 10:15 – 11:00
Session 27, Richland B
Prove It! Connecting Science and Literacy through Supporting Claims with Evidence (Part 2).
Want your students to write what they know? In part 2, using Science and ELA standards, participants compose writing prompts that require evidence to respond.
Type of Session: Presentation
Intended Audience: K-5
Participant Limit: 26-50
Addresses: Science and Engineering Practices
Presenter(s): Ed Emmer, Gina Rodriguez
Time: 45 Minutes

Friday, 11:15 – 12:15
KEYNOTE CHOICES
Chris King, SpeedTree Visual Effects and Animation Columbia Ballroom A
Joe Levine, Welcome to the Anthropocene. Columbia Ballroom B
Jacqui Michel, SC Coastal Geology, Columbia Ballroom C
Friday, 12:15 – 1:00
Lunch Break (Concessions in Vendor Hall)
Vendor Hall Open

Friday, 1:00 – 2:15
Session 2, Columbia B
Is America flunking science? If so, what can teachers, new South Carolina standards, and teaching tools do about it?
Scientific literacy, essential to America’s future, eludes most students despite our best efforts. What changes in science education can address this challenge? Science is more important to everyday life, public health and national security today than it has ever been before. Yet, from the standpoint of real understanding of the nature and process of science, and of the value of science to individual and societal decision-making, the public and many students seem to be “dumb and getting dumber.” What works against public understanding of science and quality science education, and how can the new generation of science standards and educational materials, and teaching practices help us rise to the challenges we face as science educators?
Presenter(s): Joseph Levine, PhD

Friday, 1:00 – 2:15
Session 19, Columbia A
The PBL Project — We’re not preparing students for Jeopardy anymore!
FREE BOOKS! Our PBL Project (www.pblproject.com) gives teachers access to Problem-Based Learning scenarios and resources. Problem-Based Learning promotes communication, collaboration, problem-solving skills, and more. Attendees receive free books!
Type of Session: Presentation
Intended Audience: K-5, 6-8
Participant Limit: 50+
Addresses: Science and Engineering Practices
Presenter(s): Ben Bache

Friday, 1:00 – 2:15
Session 35, Lexington B
How can NASA STEM Resources help classroom teachers?
Teachers will be introduced to various available NASA STEM Classroom Resources with the emphasis placed on NASA’s Missions to Explore our Solar System.
Type of Session: Presentation
Intended Audience: All Levels
Participant Limit: 26-50
Addresses: Science and Engineering Practices
Presenter(s): Dr. Edward P. Donovan & Sharon L. Donovan

Friday, 1:00 – 2:15
Session 41, Carolina A
Improving Severe Weather Classroom Instruction
This session provides teachers with modern day resources to enhance severe weather instruction including the latest weather technology and access to real time weather events.
Type of Session: Presentation
Intended Audience: All Levels
Participant Limit: 26-50
Addresses: Core Content
Presenter(s): Jim Hinton

Friday, 1:00 – 2:15
Session 57, Carolina B
Flipped over teaching chemistry with technology!
For teachers who will be using tablets for the first time or those who are relatively new to using technology to teach chemistry (or science), the session explains how I (a first time 1 to 1 user) used Android tablets to teach and assess chemistry. Instructional explanations include strategies for students’ first time exposure to topics, utilization of multiple representations of concepts and use of virtual labs to support wet labs.
Type of Session: Presentation
Intended Audience: All Levels
Participant Limit: 26-50
Addresses: Core Content
Presenter(s): Dr. Joni Jordan
**Friday, 1:00 – 2:15**  
**Session 21, Congaree B**  
iDEAL (integrating Disciplinary Experiences Around Literacy)

iDEAL is designed to engage educators in an exploration of disciplinary literacy strategies in science, technology, engineering and mathematics for 21st Century learning.  

**Type of Session:** Presentation  
**Intended Audience:** All Levels  
**Participant Limit:** 1-25  
**Addresses:** Structure and function  
**Presenter(s):** Alice Gilchrist  
**Time:** 1 Hour 15 minutes

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**Friday, 1:00 – 2:15**  
**Session 88, Richland A**  
**OMG Physical**

In this workshop physical science teachers will make several foldables (called OMGs) which align to the Disciplinary Core Ideas of the Next Generation Science Standards.

**Type of Session:** Hands-On Workshop (Nonticketed)  
**Intended Audience:** 6-8  
**Participant Limit:** 26-50  
**Addresses:** Core Content  
**Presenter(s):** Amy Gilbert, Ph.D.  
**Time:** 45 Minutes

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**Friday, 1:00 – 2:15**  
**Session 30, Richland C**  
**Science Notebooking with ELA College and Career Readiness Standards**

Use Science Notebooks to address the 2014 Science Content Standards, Performance Indicators and South Carolina College and Career Readiness ELA Standards - a tool for teaching, learning, and assessing students’ understanding of science.

**Type of Session:** Hands-On Workshop (Nonticketed)  
**Intended Audience:** K-5, 6-8  
**Participant Limit:** 26-50  
**Addresses:** Science and Engineering Practices  
**Presenter(s):** Ellen Mintz  
**Time:** 1 Hour 15 minutes

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**Friday, 1:00 – 2:15**  
**Session 24, Lexington A**  
**S.T.E.M. to STEM: Connecting the dots with the “E”**

Gain strategies to implement an integrated approach to teaching STEM disciplines through engineering design principles. Experience the WOW of STEM through an engaging design challenge.

**Type of Session:** Hands-On Workshop  
**Intended Audience:** All Levels  
**Participant Limit:** 26-50  
**Addresses:** Science and Engineering Practices  
**Presenter(s):** Susie Teague  
**Time:** 1 Hour 15 minutes

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**Friday, 1:00 – 2:15**  
**Session 60, Columbia BR C**  
**Using Physical Science Exploration to Convey Crosscutting Concepts**

Rotating through multiple Geoscience investigations, we will first uncover the Crosscutting Concepts and then discuss how they are interwoven into SC elementary Physical science standards.

**Type of Session:** Hands-On Workshop  
**Intended Audience:** K-5  
**Participant Limit:** 1-25  
**Addresses:** Science and Engineering Practices  
**Presenter(s):** Jeanne McKinney, Michelle Lutz, Kevin Schultz  
**Time:** 1 Hour 15 minutes
Friday Schedule

Friday, 2:45 – 4:00
Session 58, Columbia A
Want To Be WILD in SC?
This presentation will be an overview of the program and curricula provided by WILD in SC, giving the educators an idea of what workshops are available throughout the state.
Type of Session: Presentation
Intended Audience: All Levels
Participant Limit: 26-50
Addresses: Science and Engineering Practices
Presenter(s): Nancy and Ray Thompson
Time: 1 Hour 15 minutes

Friday, 2:45 – 4:00
Session 42, Congaree A
Science and Math Crossing Boundaries
In this session teachers will develop models using mathematical scales, data analysis, and literature examples to draw conclusions about scientific phenomena.
Type of Session: Hands-On Workshop
Intended Audience: Middle School Math and Science Teachers
Participant Limit: 25-30
Addresses: Science and Engineering Practices
Presenter(s): Christy McCullough and Tiffany Reynolds
Time: 1 Hour 15 minutes

Friday, 2:45 – 4:00
Session 49, Richland B
Engaging science, using engineering practices
Science and engineering practices using AGI activities. 5E and crosscutting concepts.
Type of Session: Hands-On Workshop (Nonticketed)
Intended Audience: 6-8
Participant Limit: 1-25
Addresses: Science and Engineering Practices
Presenter(s): Cindy Crawford and Laurie Jordan
Time: 1 hour 15 minutes

Friday, 2:45 – 4:00
Session 23, Congaree B
Exploring a STEM Teaching Fellows Program
Participants will explore existing STEM Teaching Fellows programs and provide input regarding priorities for the possible development of a STEM Teaching Fellows program in South Carolina.
Type of Session: Presentation
Intended Audience: All Levels
Participant Limit: 26-50
Addresses: Science and Engineering Practices
Presenter(s): Becky Cornwell
Time: 1 Hour 15 minutes

Friday, 2:45 – 4:00
Session 42, Congaree A
Science and Math Crossing Boundaries
In this session teachers will develop models using mathematical scales, data analysis, and literature examples to draw conclusions about scientific phenomena.
Type of Session: Hands-On Workshop
Intended Audience: Middle School Math and Science Teachers
Participant Limit: 25-30
Addresses: Science and Engineering Practices
Presenter(s): Christy McCullough and Tiffany Reynolds
Time: 1 Hour 15 minutes

Friday, 2:45 – 4:00
Session 5, Carolina B
Free Science Resources for (SC)2 Members
Access to NSTA’s Learning Center will be given to all participants (free). Over 3,500 lesson plans, demonstrations, and other science resources are now available for (SC)2 members. A sampling of Learning Center resources will be demonstrated. Don’t miss this opportunity to gather resources to help you teach science. Free journals and other materials from NSTA will be given out.
Type of Session: Presentation
Intended Audience: ALL
Presenter(s): Manley Midgett, NSTA District VI Director
Time: 1 hour 15 Minutes
No Science Teacher Left Behind: Future of Virtual Schools and Edgenuity

Virtual schools and online technologies are here to stay! They may even be the all-encompassing future of education. Don't get left behind!

Type of Session: Hands-On Workshop, Presentation

Intended Audience: 6-8, 9-12

Participant Limit: 26-50

Addresses: Core Content

Presenter(s): Vicki LaPrad

Time: 1 Hour 15 minutes

Special Requests: Participants - Bring your laptops
Wednesday, November 4, 2015
Preconference Workshops 9:00AM – 4:00PM
Registration 7:30AM – 6:00PM
SC Department of Education 1:00PM – 3:45PM See Sessions for times and topics

Thursday, November 5, 2015
Registration 7:00AM – 6:00PM
Continental Breakfast 7:00AM – 8:00AM
Opening Session 8:00AM – 9:00AM Keynote Professor Lawrence Lowery
General Sessions, Track 1 9:15AM – 10:00AM
SESSION CHOICE _____________________________________________ ROOM ________________
General Session, Track 2 10:15AM – 11:00AM
SESSION CHOICE _____________________________________________ ROOM ________________
Keynote Address 11:15AM – 12:15PM Keynote, Brian Campbell, Notebooking
Lunch Break 12:15PM – 1:00PM Concessions Available in Exhibit Hall
General Session, Track 3 1:00PM – 2:15PM
SESSION CHOICE _____________________________________________ ROOM ________________
Break 2:15PM – 2:45PM
General Session, Track 4 2:45PM – 4:00PM
SESSION CHOICE _____________________________________________ ROOM ________________
Presidents Reception 5:00PM – 7:00PM

Friday, November 6, 2015
Registration 6:30AM – 10:00AM
Continental Breakfast 7:00AM – 8:00AM
(SC)² Business Meeting 8:00AM – 9:00AM *Please plan to attend
General Sessions, Track 1 9:15AM – 10:00AM
SESSION CHOICE _____________________________________________ ROOM ________________
General Session, Track 2 10:15AM – 11:00AM
SESSION CHOICE _____________________________________________ ROOM ________________
Keynote Address 11:15AM – 12:15PM
• Chris King, Speedtree Cinema
• Dr. Joseph Levine, Welcome to the Anthropocene
• A Coast for All Seasons, A Naturalist’s Guide to the Coast of South Carolina
Lunch Break 12:15PM – 1:00PM Concessions Available in Exhibit Hall
General Session, Track 3 1:00PM – 2:15PM
SESSION CHOICE _____________________________________________ ROOM ________________
Break 2:15PM – 2:45PM
General Session, Track 4 2:45PM – 4:00PM
SESSION CHOICE _____________________________________________ ROOM ________________

For up-to-date information, visit www.scscience.org or consult the Guidebook App