South Carolina Regional Future City Competition

January 24, 2009
University of South Carolina Aiken

Hosted by:
Savannah River Nuclear Solutions, LLC and the Ruth Patrick Science Education Center
Welcome to the 2009 South Carolina Regional Future City Competition. We are very excited to have a wonderful group of teams competing this year. Many thanks go out to the numerous hours of hard work by the teachers, mentors, students, volunteers, and parents.

The mission of the National Engineers Week Future City Competition is to provide a fun and exciting educational engineering program for seventh- and eighth-grade students that combines a stimulating engineering challenge with a "hands-on" application to present their vision of a city of the future.

This is accomplished by:
- Fostering engineering skills
  - such as teamwork, communication and problem solving skills
- Providing interaction among students, teachers, and engineer mentors
- Informing the community about the multi-disciplines within the engineering profession
- Inspiring students to explore futuristic concepts and careers in engineering.

The National Engineers Week Future City Competition requires:
*Problem-solving *Team work *Research and presentation skills *Practical math and science applications * Computer skills

**Schedule of Events**

10:30-11:15  Registration, Model Set-up, and Lunch ................ Business & Education Building (B&E)  
1st floor - Main Entrance

11:15-11:30  Opening Ceremony ................................. B&E Gymnasium – 2nd floor

11:40-3:40  Preliminary Judging: Model & Presentation ...... B&E Classrooms – 1st and 2nd floor
Special Award Judging ................................. B&E Gymnasium – 2nd floor

3:40-4:00  Break (snacks provided for teams) ............... B&E Gymnasium – 2nd floor

4:00  Announcement of top three schools ............... B&E Gymnasium – 2nd floor

4:00-5:00  Final Round of Judging: top three schools ....... B&E Gymnasium – 2nd floor

Awards Ceremony ........................................ B&E Gymnasium – 2nd floor

*Immediately following final presentation*
# 2009 SC Regional Future City Competition

## 2009 Teams

<table>
<thead>
<tr>
<th>School</th>
<th>Future City Name</th>
<th>Teacher</th>
<th>Engineering Mentor</th>
<th>Student</th>
<th>Student</th>
<th>Student</th>
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</thead>
<tbody>
<tr>
<td>Aiken Middle School</td>
<td>Bolarnard</td>
<td>Susan McCullough</td>
<td>Mark Layton</td>
<td>Rhett Barnard</td>
<td>Brandon Bolton</td>
<td>Dustin Snellings</td>
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<tr>
<td>Blythewood Middle School</td>
<td>Coventina</td>
<td>Nicole Schuldes</td>
<td>Steven J. King</td>
<td>Blaire Brooks</td>
<td>Alyssa Ursprung</td>
<td>Rachael McGahee</td>
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<tr>
<td>Cardinal Newman School</td>
<td>Ekuna</td>
<td>Eric Goff</td>
<td></td>
<td>Halye Claffy</td>
<td>Chandler Pobis</td>
<td>Marie Silver</td>
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<tr>
<td>E.L. Wright Middle School</td>
<td>Armstrong City</td>
<td>Donna M. Petty</td>
<td>Tyrone Ellis</td>
<td>Josey Abraham</td>
<td>Cameron Pratt</td>
<td>David Shulman</td>
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<tr>
<td>E.L. Wright Middle School</td>
<td>Nourveau, Orleans</td>
<td>Donna M. Petty</td>
<td>Tyrone Ellis</td>
<td>Brianna Thompson</td>
<td>Decoria Brown</td>
<td>Shannon Hampton</td>
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<tr>
<td>First Baptist Church School</td>
<td>New Charleston</td>
<td>Mary Jacob McKinley</td>
<td>James Keith Piemmons</td>
<td>Skylar McClain</td>
<td>Quinn Camp</td>
<td>Emma Gervais</td>
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<td>Kennedy Middle School</td>
<td>Dynasty</td>
<td>Mark McDowell Gore</td>
<td>Jim Ferguson</td>
<td>Preston Barr</td>
<td>Kyle Brown</td>
<td>Chandler Rikard</td>
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<td>New Ellenton Middle School</td>
<td>Blue River City</td>
<td>Mary A. Johnson</td>
<td>Heather Mentzer</td>
<td>Jesse Eisenman</td>
<td>Darius Washington</td>
<td>Mathew Muzall</td>
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<td>New Ellenton Middle School</td>
<td>Green City</td>
<td>Mary A. Johnson</td>
<td>Scott Williams</td>
<td>Austin Williams</td>
<td>Ben Harper</td>
<td>Kelly Key</td>
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<td>North Augusta Middle School</td>
<td>Aquanapolis</td>
<td>B. R. Smith</td>
<td>Mike Corey</td>
<td>Nicole Fuller</td>
<td>Destanie Hensley</td>
<td>Payton Lord</td>
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<td>North Augusta Middle School</td>
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<td>B. R. Smith</td>
<td>Mark Tyrrell</td>
<td>Avery Tyrrell</td>
<td>Amber Fliceck</td>
<td>Michaela Treadway</td>
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<td>Mike Corey</td>
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<td>Eric White</td>
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<td>Julia Spicker</td>
<td>Kirstyn Donney</td>
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<td>Austin Ferguson</td>
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<td>Bryson Conner</td>
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<td>Palmetto Middle School</td>
<td>Kanzen Tokai</td>
<td>Ella Ford</td>
<td>Bruce Graves</td>
<td>Kelly Elliott</td>
<td>Marissa LaYuans</td>
<td>Laverne Page, Jr.</td>
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<td>Palmetto Middle School</td>
<td>Speranza</td>
<td>Lonner Lee</td>
<td>Rodney Hardy</td>
<td>Brittany Rogers</td>
<td>Michael Brown</td>
<td>Pranav Patel</td>
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<td>Aquaplump</td>
<td>Helen R. Campbell</td>
<td>Thomas Edison</td>
<td>Ansley Hiatt</td>
<td>John Monahan</td>
<td>Alex Ward</td>
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<td>Victor</td>
<td>Helen R. Campbell</td>
<td>Guy Baldwin</td>
<td>Joey Baldwin</td>
<td>Zach Bradley</td>
<td>Mary Beth Cooper</td>
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<td>El Verde City</td>
<td>Pam Graves</td>
<td>Thomas Edison</td>
<td>Emsley Snyder</td>
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<td>Bronwyn Bigger</td>
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<td>St. Mary on the Hill Catholic School</td>
<td>Agolemonos</td>
<td>Mrs. Watwood</td>
<td>Mrs. Amuroo</td>
<td>Jed Amuroo</td>
<td>Graham Klebba</td>
<td>Logan Pogue</td>
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<td>St. Mary on the Hill Catholic School</td>
<td>Cornpiper</td>
<td>Mrs. Watwood</td>
<td>Mr. Merz</td>
<td>Zach Gundey</td>
<td>Caroline Merz</td>
<td>Katelyn Montol</td>
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<td>Mrs. Watwood</td>
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<td>Reba Baltrusaitis</td>
<td>Rachel Singeltary</td>
<td>Kelly Marshall</td>
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<td>Hilltop</td>
<td>Mrs. Watwood</td>
<td>Mr. Munie</td>
<td>Jessica Munie</td>
<td>Sydney Thompson</td>
<td>Teresa Ziembka</td>
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<td>St. Mary on the Hill Catholic School</td>
<td>New Atlantis</td>
<td>Mrs. Watwood</td>
<td>Mr. Huffman</td>
<td>Thomas Huffman</td>
<td>Anthony Marks</td>
<td>Jas Rempala</td>
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<tr>
<td>Woodmont Middle School</td>
<td>Alicibodkyz</td>
<td>Angela Clark</td>
<td>Stephen Keel</td>
<td>Brandon Thompson</td>
<td>Kaitlyn Gothon</td>
<td>Billy Hawthorne</td>
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## Special Awards

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<tr>
<th>Award</th>
<th>Sponsor</th>
<th>Sponsor Level</th>
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<tbody>
<tr>
<td>Best Automation/Computer Applications Award</td>
<td>ISA (Instrumentation, Systems, and Automation)</td>
<td>Gold</td>
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<tr>
<td></td>
<td>Savannah River Section</td>
<td></td>
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<tr>
<td>Best Use of Innovative Construction Materials and Techniques</td>
<td>American Concrete Institute Carolina Chapter</td>
<td>Gold</td>
</tr>
<tr>
<td>Most Innovative Fuel Source</td>
<td>American Nuclear Society (ANS)</td>
<td>Gold</td>
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<tr>
<td></td>
<td>Savannah River Section</td>
<td></td>
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<tr>
<td>Excellence in Futuristic Concepts</td>
<td>American Society of Mechanical Engineers (ASME) CSRA Section</td>
<td>Silver</td>
</tr>
<tr>
<td>Best Electrical Engineering Innovation</td>
<td>Institute of Electronics &amp; Electrical Engineers (IEEE) Central Savannah River Section</td>
<td>Silver</td>
</tr>
<tr>
<td>Best Essay</td>
<td>Savannah River Nuclear Solutions</td>
<td>Silver</td>
</tr>
<tr>
<td>Best Integration of Engineered Systems</td>
<td>American Society for Engineering Management (ASEM) CSRA Chapter</td>
<td>Silver</td>
</tr>
<tr>
<td>Best Model Award</td>
<td>SRS Chapter 773 National Management Association (NMA)</td>
<td>Silver</td>
</tr>
<tr>
<td>Best Project Management Plan Award</td>
<td>Savannah River Chapter of the Project Management Institute</td>
<td>Silver</td>
</tr>
<tr>
<td>Most Energy Efficient Design</td>
<td>American Institute of Chemical Engineers (AIChE) Central Savannah River Area Section</td>
<td>Silver</td>
</tr>
<tr>
<td>Student Choice Award</td>
<td>SRS Chapter 773 National Management Association (NMA)</td>
<td>Silver</td>
</tr>
<tr>
<td>Best Planned City</td>
<td>Association for the Advancement of Cost Engineering International Central Savannah River Section</td>
<td>Silver</td>
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</tbody>
</table>

## Thank You Volunteers and Donors

Michelle Abney
Jeff Allison
Francis Alston
Jim Arflin
Linda Augeri
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Debbie Epling
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Linda Ferrell
Mick Ferrell
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Johnson
D. T. Townsend
Virginia Vaughn
Janice Weeks
Kathleen White
C. J. Wooly

**Thank You!**
-Savannah River Nuclear Solutions, LLC
-Ruth Patrick Science Education Center
-USC Aiken
-Coca-Cola Bottling Company