University of Alabama to Host 2016 Conference

The University of Alabama will be hosting the 2016 Annual Meeting of the Southeastern Section of the American Society for Engineering Education. The conference will be held on the University of Alabama campus in Tuscaloosa, Alabama. The conference will run March 13 to 15, 2016. Engineering for Sustainability, the conference theme, and a number of other topics pertinent to engineering education will be explored at the conference. In addition to a variety of interesting peer-reviewed papers, the conference plans include several workshops on Sunday. More information about the conference is found in the President’s message and Call for Papers. Call for Workshops will sent later this fall.

If you haven’t been to Tuscaloosa in the last few years, you may be surprised at some of the new facilities on the engineering side of campus. In addition to the new buildings surrounding the new Shelby Quad, attendees will have the opportunity to tour some of the new research laboratories, e.g. the Large-Scale Structures Lab, the Foundry, and the Engines and Combustion Lab.
University of Alabama to Host 2016 Conference

(Continued from page 1)

Beyond the research and academic facilities, growth at the University of Alabama has led to new entertainment and recreation spots on campus and across Tuscaloosa. The City of Tuscaloosa’s outdoor amphitheater seats over 7,000 and hosts many concerts and cultural events. The Alabama Museum of Natural History in Smith Hall features exhibits from the Age of Dinosaurs and the Ice and Coal Ages. Ol’ Colony Golf Course, a park and recreation project, is considered one of the best public golf courses in the country. Capitol Park, located in the heart of downtown Tuscaloosa, has partially excavated ruins of the site of the Alabama State Capitol, when Tuscaloosa was the seat of state government from 1826 to 1846. South of Tuscaloosa, Moundville Archaeological Park is part of the Alabama Museum of Natural History. It recently underwent a multi-million-dollar makeover and is internationally recognized as one of the most important prehistoric Indian settlements and ceremonial centers in North America. Mildred Warner Westervelt Transportation Museum illustrates the region’s history through ancient artifacts and interactive learning tools. Nearby, the Mercedes-Benz Museum & Visitors Center is one of Alabama’s top tourist attractions.

Message from Section President, Scott Schultz

Hello engineering educators and friends. I want to begin by thanking Tulio Sulbaran, section President 2014–15, and all the other section officers for their leadership and service. Thanks also to the University of Florida for hosting an outstanding 2015 ASEE–SE conference; site coordinators John Abbitt, Bruce Carroll, and Angela Linder; and technical program chair, Jerry Newman. Also, a special thanks to Priscilla Hill for chairing the 2015 ASEE–SE conference. I have attended these ASEE–SE conferences for the past 13 years and continually come away from them motivated and re-energized concerning our mission of educating young people. I am particularly encouraged with the continued growth in numbers and quality of the student poster competition during the conference.

This coming year we are excited about returning to the University of Alabama, Tuscaloosa which last hosted the ASEE–SE conference in 2006. This year’s conference theme is “Engineering for Sustainability” and is planned for March 13–15, 2016. Authors interested in presenting at this conference are requested to submit an abstract by September 4, 2015. Please see the call for papers in this newsletter for additional details. I want to thank Beth Todd who is serving as the host site coordinator and is actively planning an array of events. I also want to recognize Priya Goeser who has the “heavy lifting” task as technical program chair.

Building on the theme of Sustainability, what makes the ASEE–SE section vibrant and sustainable? First, the “founding fathers” of the section had the wisdom and
Message from Section President, Scott Schultz
(Continued from page 2)

vision to craft the section bylaws and constitution which future officers have used a valuable guide for running the organization. And second, is our mechanism of encouraging and involving new members who aspire to leadership positions. The process of becoming more involved and taking on leadership roles is relatively simple.

1. Start by attending the annual section conference.
2. During the conference, we hold meetings during Monday and Tuesday breakfast at which Division officers are elected.
3. The Division officer election process begins by promoting the previous year’s Vice Chair to the Chair position, and the Secretary to the Vice Chair position. A new Secretary is then elected. Therefore, taking on a Secretary office in a Division is the entry point to all additional officer appointments.

So please help continue sustaining the ASEE–SE section. Join us at the University of Alabama in March. Become an active member of the section, and consider becoming an officer within the organization.

Current section officers, Conference information, and much more can be found at asee-se.org

Highlights from the 2015 Conference at Gainesville

The University of Florida hosted the 2015 Annual Section Meeting at Gainesville at UF Hilton Conference Center. It was well attended with 119 registered conference participants and 85 student poster presenters, representing 52 institutions. Our keynote speaker was Dr. Ken Galloway, Distinguished Professor of Engineering at Vanderbilt University, and immediate past president (2014–2015) of the national ASEE organization who spoke on the topic “ASEE 2015! – ASEE 2025?”. Dr. Ken Galloway was the ASEE–SE Keynote Speaker

There were 5 workshops conducted on Sunday with 32 participants. The workshop topics were:
• Embedded Systems Experiments Using the TI MSP430 Launchpad, and NI myRIO

• Lecture Capturing with Free Open Source Software for Tablet–PC’s
• Utilizing SolidWorks in an Engineering Curriculum,
• Convert your Existing Course Material into an Effective Virtual Learning Environment,
• How to use the flipped class to teach effectively

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2015 Conference at Gainesville continued from page 3

The Florida Museum of Natural History was a wonderful venue for the Sunday evening welcome reception. Delicious heavy hors d’oeuvres and live music from the UF Guitar Orchestra complemented the museums’ comprehensive exhibits.

The Awards Banquet on Monday evening was also hosted at the UF Hilton Conference Center. A summary of the awards, including the student poster session awards is provided in the next section.

Awards

At the 2015 Annual Meeting in Macon, a number of awards were given for excellence in engineering education. The list of recipients and the awards are:

Section Outstanding Teaching Award  Timothy Foutz, University of Georgia
Section Outstanding New Teacher Award  Mary Katherine Watson, The Citadel
Section Outstanding Mid-Career Teaching Award  Sandra Eksioglu, Clemson University
Section New Faculty Research Award, First Place  Cindy Bethel, Mississippi State University
Outstanding Campus Representative Award  Larry G. Richards, University of Virginia
Tilsmans-Dion Section Service Award  Hodge Jenkins, Mercer University
Award for Outstanding Service to the Section  Thomas Dion, The Citadel

Outstanding Paper Award for 2015 ASEE-SE Conference: Sally Pardue and Nikolas McGehee, Tennessee Technological University

“Upper Cumberland Rural STEM Initiative (UCRSI) STEM Mobile: A Sustainable Model for K–12 Outreach”
Student Poster Competition Winners
2015 ASEE–SE Conference

First and Second Year Engineering and/or Engineering Technology Design Teams


Junior/Senior Engineering and/or Engineering Technology Design Teams


Second: Rob Ramey, Ryan Yeargin, and Gerald Vosburg, “Effect of Particle Size of Sodium Chloride as a Space Holder in Porous Sintered Aluminum Creation”, North Carolina A&T State University

Third: Jason Baum, Nicolas Cerf, Jeremy Leshin, Alexandra Lupu, Ricardo Rivera, Kyle Silvares, Mihailo Zivkovic, “Determination of Oxygen Flow Rate through a Contact Lens”, The University of Florida

Undergraduate Research Individual


Second: Juan Vasconez, “Application of 3D Printing into Homemade, Electric Skateboards ”, Embry–Riddle Aeronautical University

Third: Catherine Raybould, “Analysis of Alternatives for Refugee Housing”, Mercer University

Best Overall Student Poster


Future Conference Locations

2017  Puerto Rico, Zone II Conference

2018  Embry-Riddle Aeronautical University, Dayton Beach, FL

2019  Auburn University, Auburn, AL
# Officers

**The new officers for the 2015–2015 year are:**

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
<th>Affiliation</th>
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<tbody>
<tr>
<td>President</td>
<td>Scott Schultz</td>
<td>Mercer University</td>
<td>478–301–2840</td>
</tr>
<tr>
<td>President Elect</td>
<td>John Brocato</td>
<td>Mississippi State University</td>
<td>662–325–1493</td>
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<tr>
<td>Immediate Past President</td>
<td>Tulio Sulbaran</td>
<td>University of Southern Mississippi</td>
<td>601–266–6419</td>
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<tr>
<td>Secretary</td>
<td>Cecelia Wigal</td>
<td>UT Chattanooga</td>
<td>423–425–4015</td>
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<tr>
<td>Treasurer</td>
<td>Daniel Kohn</td>
<td>University of Memphis</td>
<td>901–347–0382</td>
</tr>
<tr>
<td>Paper Management &amp; Website Coordinator</td>
<td>Tyson Hall</td>
<td>Southern Adventist University</td>
<td>423–236–2916</td>
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<tr>
<td>Newsletter Editor</td>
<td>Hodge Jenkins</td>
<td>Mercer University</td>
<td>478–301–2831</td>
</tr>
<tr>
<td>Campus Rep. Coordinator</td>
<td>Kenneth Ball</td>
<td>George Mason University</td>
<td>703–993–1500</td>
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<tr>
<td>Proceedings Editor</td>
<td>Barbara Bernal</td>
<td>Kennesaw State University</td>
<td>678–915–4283</td>
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**Vice Presidents**

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<th>Name</th>
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<tr>
<td>Programs Unit</td>
<td>Tanya Kunberger</td>
<td>Florida Gulf Coast University</td>
<td>239–590–7644</td>
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<tr>
<td>Awards &amp; Recognition Unit</td>
<td>Tim Wilson</td>
<td>Embry–Riddle Aeronautical University</td>
<td>386–226–6994</td>
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<tr>
<td>Publications &amp; Promotion Unit</td>
<td>Tom Fallon</td>
<td>Kennesaw State University</td>
<td>678–915–7431</td>
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**Division Chairs**

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<th>Chair</th>
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<tbody>
<tr>
<td>Administrative Division</td>
<td>Amber Thompson</td>
<td>Western Carolina University</td>
<td>828–227–2517</td>
</tr>
<tr>
<td>Bioengineering Division</td>
<td>Jim Houser</td>
<td>Appalachian State University</td>
<td>828–390–7960</td>
</tr>
<tr>
<td>Chemical Engineering Division</td>
<td>Pete Ludovice</td>
<td>Georgia Tech</td>
<td>404–894–1835</td>
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<tr>
<td>Civil Engineering Division</td>
<td>Adel Abdelnaby</td>
<td>University of Memphis</td>
<td>901–678–2746</td>
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<tr>
<td>Computer Engineering and Technology Division</td>
<td>Tyson Hall</td>
<td>Southern Adventist University</td>
<td>423–236–2916</td>
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<tr>
<td>Electrical Engineering Division</td>
<td>Thomas Murphy</td>
<td>Armstrong Atlantic State University</td>
<td>912–344–2709</td>
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<tr>
<td>Engineering Technology Div.</td>
<td>Aidan Browne</td>
<td>UNC Charlotte</td>
<td>704–687–5033</td>
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<tr>
<td>Instructional Division</td>
<td>Monika Bubacz</td>
<td>The Citadel</td>
<td>843–953–0530</td>
</tr>
<tr>
<td>K–12</td>
<td>Lulu Sun</td>
<td>Embry–Riddle Aeronautical University</td>
<td>386–226–6691</td>
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<tr>
<td>Professional Skills Division</td>
<td>Amy Barton</td>
<td>Mississippi State University</td>
<td>662–263–7224</td>
</tr>
<tr>
<td>Research Division</td>
<td>Todd Schweisinger</td>
<td>Clemson University</td>
<td>864–656–5542</td>
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<tr>
<td>Software Engineering Division</td>
<td>Barbara Bernal</td>
<td>Kennesaw State University</td>
<td>404–455–0159</td>
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ENGINEERING FOR SUSTAINABILITY

Providing sustainable outcomes for a constantly changing world is a major challenge for future engineers. A wide variety of technologies may be developed to handle these various needs. Will our students be equipped to deal with a constantly changing society? Curricula, courses, and other learning experiences that provide the engineering preparation necessary to meet these future challenges are the focus of this conference.

CALL FOR PAPERS AND PRESENTATION ABSTRACTS

Authors are invited to submit full-length manuscripts for presentation at the conference and inclusion in its proceedings. Papers addressing the conference theme will have first priority and may include topics related to the following:

- Innovative Curricula or Courses
- First Year Engineering Programs
- Organizational Structures to Promote Interdisciplinary Engineering
- Distance Learning in Engineering
- Ethics and Professional Practice
- Technologies for Efficient Learning
- Engineering K-12 Outreach Programs
- Engineering Learning Communities
- Experiential Learning
- ABET Accreditation Projects
- Engineering Recruitment
- Engineering Retention
- Partnerships
- Engineering Common Cores
- Teaching/Learning Practices
- Capstone Design Courses or Projects
- Engineering Professional Development

Authors may also address other topics of interest to the engineering education community. Guidelines for manuscript preparation are available via the Author Instructions at www.asee-se.org at the Conference page.

Papers will be accepted based on a peer review of manuscripts. Authors are expected to present their papers at the conference to facilitate the transfer of knowledge through discussion and debate. All accepted papers presented by a timely-registered author will be included in the conference proceedings. A limited number of abstracts may be accepted for presentation. These abstracts will be neither peer-reviewed nor included in the conference proceedings.

An author/co-author can be associated with as many papers/presentations as is appropriate, but a registrant can serve as the presenter of record on a maximum of three presentations.

A poster session in which undergraduates discuss their experiences in engineering education (design projects, research, etc.) is anticipated. Information about this session will be available in the fall.

SCHEDULE FOR SUBMISSION OF PAPERS AND ABSTRACTS

<table>
<thead>
<tr>
<th>Date</th>
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<tbody>
<tr>
<td>Friday, September 4, 2015</td>
<td>Abstracts submitted by authors for consideration</td>
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<tr>
<td>Friday, September 11, 2015</td>
<td>Authors notified regarding acceptance</td>
</tr>
<tr>
<td>Friday, November 6, 2015</td>
<td>Manuscripts due from authors for review</td>
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<tr>
<td>Friday, December 11, 2015</td>
<td>Reviewed manuscripts returned to authors</td>
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<tr>
<td>Friday, January 8, 2016</td>
<td>Final manuscripts and extended abstracts due from authors</td>
</tr>
<tr>
<td>Friday, January 22, 2016</td>
<td>Deadline for presenters to register for conference</td>
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Submit a 250-300 word abstract in doc, docs, or pdf file format by September 4, 2015
Conference paper submission site can be found at www.asee-se.org or papers.asee-se.org

CONTACTS

Priya Goeser, Technical Program Chair, (912) 344-2874, Priya.Goeser@armstrong.edu
Beth Todd, Conference Site Coordinator, (205) 348-1623, bttodd.eng@gmail.com