

SOUTHEASTERN SECTION NEWSLETTER



2019 Section Conference to be held in Raleigh, NC

The College of Engineering at North Carolina State University will host the 2019 ASEE–Southeast Annual Conference on March 10–12, 2019 on NC State’s Centennial campus in Raleigh, NC. The theme for the 2019 meeting is “Educating Tomorrow’s Engineering Entrepreneur.” Workshops and paper proposals investigating entrepreneurship or topics such as teamwork, resilience, ethics, knowledge, and diversity are specifically requested. The conference will also include a student poster competition for undergraduates.

The conference hotel will be the Stateview Hotel located on Centennial campus and near downtown Raleigh. Workshops and the Sunday reception will be held at the Stateview. Papers and posters will be

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presented in nearby Engineering Building 3 with meals at the Talley Student Union and the award-winning James B. Hunt Jr. Library.

Raleigh provides visitors with a plethora of options and activities including the Lonnie Poole Golf Course, the North Carolina Museum of Art, over 165 restaurants and bars in downtown Raleigh, the Centennial Greenway located on Lake Raleigh located just down the road from the Stateview Hotel, and more.

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North Carolina State’s Centennial Campus



Downtown Raleigh skyline at night

2019 Section Conference to be held in Raleigh, NC

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The College of Engineering at NC State University is ranked a top-25 research and teaching institution in the country. Engineering degrees are offered through nine academic departments in the college and three departments in other colleges. The College offers 18 bachelor's, 21 master's, and 13 doctoral degree programs and 16 online engineering master's degrees. Annual enrollment in Engineering exceeds 10,000 students including more than 6,000 undergraduates and more than 3,000 graduate students.



The Stateview Hotel, will be the 2019 Conference Hotel



Aerial View of North Carolina State's Centennial Campus

Visit <http://go.ncsu.edu/asee-se> for more information including the call for papers/workshops/posters and the link for registration at the Stateview Hotel and the conference rate.



Message from Section President, Sally Pardue

Salutations to ASEE Southeastern Section members and friends! As we enter the 2018-2019 academic year, and prepare for engaging our next generation of engineers in the classroom, let's take a moment to celebrate leadership and service. Please help me acknowledge the outstanding leadership that Hodge Jenkins, Section President for 2017-2018, has provided for our Section and the wonderful job he does as our newsletter editor. I also wish to express my thanks to all our former Section officers for their superb leadership and service over the past year and to our current Section officers, newly elected at our Section Conference for their upcoming work on behalf of the ASEE-SE Section.

A special thanks and shout out goes to the Embry-Riddle Aeronautical University (ERAU) host team led by Lulu Sun and Tim Wilson for their impressive planning and excellent implementation of the ASEE-SE Conference in Daytona Beach, Florida this past March. Our 2018 Section Conference was a fabulous gathering and exchange of ideas!

The ASEE Southeastern Section is an active and vital organization and your participation is what keeps us strong and on-track with our collective delivery of quality engineering education at our respective institutions. Our 2019 section conference is scheduled for March 10-12, 2019 at North Carolina State University, in Raleigh North Carolina. The Conference theme "Educating Tomorrow's Engineering Entrepreneur" is sure to inspire us as educators to identify best ways to use the energy and enthusiasm of our students as they prepare to meet new societal and engineering challenges, to take part in creating

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Message from Section President, Sally Pardue

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technological advances, and to become leaders in the changing workplaces that await our engineering graduates. Our students require multiple perspectives to develop their knowledge and skills to succeed. We as educators open our own perspectives by sharing our successes and failures in our classroom practices and educational research. Telling our own stories of what works and why in engineering education is an important part of our responsibility as engineering faculty. I encourage all our ASEE Section members to attend our 2019 Section Conference and engage in telling your story!

Authors interested in presenting at the 2019 ASEE-SE Conference should submit an abstract by September 14, 2018; please see the call for papers in this newsletter for additional details. I want to thank Anna Howard for serving as our step-up and get-it-done host-site coordinator at NC State and for planning the conference and preparing the Call. I also want to recognize Charles (Chuck) Newhouse who is serving as our technical program chair, a key position for the conference success. Our annual section conference is an excellent and very cost-effective way to get involved in engineering education by publishing, presenting, moderating, networking with fellow educators, and serving as a section officer, all with the focus of improving your teaching and enhancing student learning. Our Section Conference has many benefits for you to consider when contrasted with the Annual ASEE Conference (typically 3500-4000 attendees). The Section Conference size (typically 150-200 attendees) allows for developing collaborations and camaraderie with like-minded faculty in the Southeast. Our Section Conference is significantly less expensive - the section early registration rate for the past few years has been \$350 or less, including all meals, approximately half the national registration rate. The Section Conference is also an excellent opportunity to become more involved in ASEE.

As I consider what ASEE and ASEE-SE mean to me, I realize that on the spectrum of the Scholarship of Teaching and Learning (SoTL), I am one of those active learners who thrive by doing. When I attend the ASEE National Conference, I am often in a more passive receptive mode of learning, and when I attend the ASEE-SE Section Conference, I am in a more active project-based learning mode, including learning how to take on leadership through service. Learning leadership by doing in our Section is as simple as one-two-three. Step One: Begin by attending the annual section conference and telling your story of engineering education as a presenter. Step Two: During the Section Conference, we hold meetings at the Monday and Tuesday breakfasts when Divisions meet and officers are elected. Come to one or both breakfasts and volunteer for an office. Step 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, which could be you!

Please help sustain and enhance our ASEE-SE section, submit an abstract today and encourage new faculty to attend. Join us in March 2019 at NC State in Raleigh, NC. Become an active member of the section, and consider becoming an officer within the organization. Hope to see you in March!

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

Highlights of the 2018 Section Conference in Daytona Beach

Embry-Riddle Aeronautical University (ERAU) in Daytona Beach, Florida hosted the 2018 Annual Section Meeting from March 4-6 with the Shores Resort & Spa serving as the conference hotel. The conference was well attended and a huge success with over 207 conference attendees, 98 papers and presentations, along with 41 student poster presentations given by 74 participating students. At last report, 43 institutions and organizations were represented at the conference.

Nine Workshops were scheduled for Sunday. On Sunday evening a welcome reception was held at the beautiful Henderson Welcome Center on the ERAU campus. A wonderful buffet was provided along with musical entertainment.

The Monday keynote address, "On Creating a Collaborative and Inclusive Environment," was given by Dr. Donna Riley, the Kamyar Haghighi Head of the School of Engineering Education and Professor of Engineering Education at Purdue University.



NASA astronaut, Nicole Stott, "The Artistic Astronaut" spoke at the Awards Banquet.

We were delighted to have the Past President of ASEE, Dr. Louis Martin-Vega speak at lunch on Engineering Education and the NAE Grand Challenges.

The Awards Banquet on Monday evening was also held at the Shores Resort & Spa. A summary of the section awards, including the student poster session awards is provided in the next section. A special banquet address was presented by former NASA astronaut, Nicole Stott on "eARTh from Space ~ Educating the Engineer of the Future."

Many thanks to ERAU President Butler, Dean Mirmirani, and especially Dr. Lulu Sun and her ERAU team for organizing and hosting a truly outstanding conference. Thanks to David Calamas of Georgia Southern University for efficiently running the Student Poster Competition. The Shores Resort & Spa and Daytona Beach were a wonderful venue to host the conference.



*The Shores Spa & Resort at Daytona Beach:
Site of 2018 ASEE SE Conference*

*ASEE-SE 2019 Conference planning meeting is scheduled for
October 11 & 12 in Atlanta.*

*Additional formation can be found at
asee-se.org*

Southeastern Section Award Nominations Sought

Late each fall the Southeastern Section issues a Call for Award Nominations for several section awards. The awards in the Call are the **Thomas C. Evans Engineering Instructional Paper Award**, **Tilmans-Dion Service Award**, the **Outstanding Teaching Award**, the **Outstanding Mid-Career Teaching Award**, the **Outstanding New Teacher Award**, and the **New Faculty Research Award**. Section members are encouraged to nominate worthy colleagues. Any ASEE-SE member may nominate a candidate for an award. All members of the ASEE Southeastern Section are eligible for these awards. Descriptions of the awards along with candidate qualifications, nomination documentation, and submission information can be found on the ASEE-SE.org website on the Awards page. Deadlines for nominations will be announced in the Call for Award Nominations, but are usually set in early January. Awards will be presented at the Awards Banquet of the 2019 Section Meeting and Conference.

2018 Section Awards

At the 2018 Annual Section Meeting a number of awards were given for excellence in engineering education. The list of recipients and the awards presented at the 2018 Awards Banquet are:

Thomas C. Evans Engineering Instructional Paper Award: Dr. Courtney Faber and Dr. Lisa Benson,
University of Tennessee Knoxville and Clemson University

Tilmans-Dion Section Service Award for Outstanding Service to the Section: Dr. Tyson Hall,
Southern Adventist University

Section Outstanding Mid-Career Teaching Award: Dr. Anna Howard, North Carolina State University

Section Outstanding New Teacher Award: Dr. Patrick Bass, The Citadel

Section New Faculty Research Award, First Place: Dr. Chelsey Simmons. University of Florida

Section New Faculty Research Award, Second Place: Dr. Lei Chen, Mississippi State University

Outstanding Campus Representative Award: Dr. Larry G. Richards, University of Virginia

Section Outstanding Teaching Award: not given

*ASEE-SE Conference information can be found at
asee-se.org*

Student Poster Competition Winners from the 2018 Annual Section Conference

1st Place – First/Second-Year Design Team Poster

Jamie Bowers, Morgan Young, Tyler Nichols, and Mario Manzo, “Sixth Sense Art Table,” The University of Tennessee at Chattanooga

2nd Place – First/Second-Year Design Team Poster

Christopher Milligan and Devin Moser, “Design of Wireless Triangulation Mechanism for Distance Measurement Automation,” SUNY Jefferson

3rd Place – First/Second-Year Design Team Poster

Sergio Rodriguez and Ricardo Robalino, “Phantom Iron Drone,” Embry-Riddle Aeronautical University

1st Place – Junior/Senior Design Team Poster

Rebecca Etter and Timothy Hood, “DustDuino: Developing a Low-Cost Air Pollution Monitoring Apparatus,” Mercer University

2nd Place – Junior/Senior Design Team Poster

Zachary Bowers, Ryan King, Hunter Lee, Drake Lewis, David Matthews, Peyton Mckellips, Dhruval Patel, Sam Schmidt, Taylor Seawell, Ethan Severance, and Tal Wanish, “Improving the Power Output of a Savonius Wind Turbine,” Clemson University

3rd Place – Junior/Senior Design Team Poster

Adam J. Berlier, Bradford Brown, Timothy Christovich, Taylor Hester, Brandon J. Koury, Cameron T. Monk, and Chadwick A. Woolford, “Integration of Augmented Reality and Neuromuscular Control Systems for Remote Vehicle Operations,” Embry-Riddle Aeronautical University

1st Place – Individual Research Poster

Luca De Beni, “Ground Vibration Test of a Small Unmanned Aerial Vehicle,” Embry-Riddle Aeronautical University

2nd Place – Individual Research Poster

Simar Singh, “The Response of Fuzzy Electronics to Ionizing Radiation,” University of Tennessee at Chattanooga

3rd Place – Individual Research Poster

Lorraine M. Acevedo, “Emergency Evacuation Route: A Case Study of Irma,” Embry-Riddle Aeronautical University

Best Overall Undergraduate Student Poster – Southeast Section

Nolan Hoolachan, Haley McKee, and Issabella Gebhard, “Increasing the Broader Impact of the Clemson Makerspace,” Clemson University

Future Section Conference Locations

- 2020** Auburn University, Auburn, AL
- 2021** George Mason University - Fairfax, VA
- 2022** The Citadel - Charleston, SC
- 2023** Mississippi State University - Starkville, MS
- 2024** Kennesaw State University - Marietta, GA

ASEE Southeastern Section Officers

The new officers for the 2018-2019 year are:

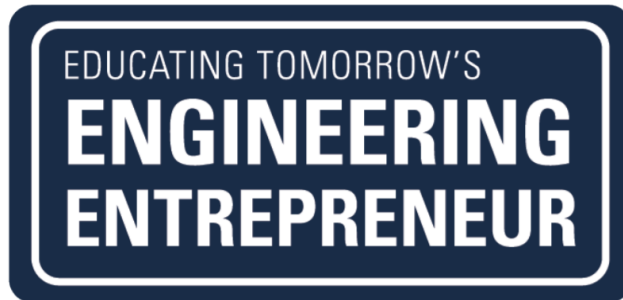
President	Sally Pardue	Tennessee Tech University	931-372-3792
President Elect	Tim Wilson	Embry-Riddle Aeronautical University	386-226-6994
Immediate Past President	Hodge Jenkins	Mercer University	478-301-2831
Secretary	Cecelia Wigal	University of Tennessee at Chattanooga	423-425-4015
Treasurer	Daniel Kohn	University of Memphis	901-347-0382
Paper Management & Website Coordinator	Tyson Hall	Southern Adventist University	423-236-2916
Newsletter Editor	Hodge Jenkins	Mercer University	478-301-2831
Campus Rep. Coordinator	Kenneth Ball	George Mason University	703-993-1500
Proceedings Editor	John Brocato	Mississippi State University	662-325-1493

Vice Presidents

Programs Unit	Priya Goeser	Armstrong State University	912-344-2874
Awards & Recognition Unit	Michael Woo	The Citadel	843-214-1442
Publications & Promotion Unit	Todd Schweisinger	Clemson University	864-656-5542

Division Chairs

Administrative Division	Harry Powell	University of Virginia	434-924-6107
Bioengineering Division	Courtney Faber	University of Tennessee at Knoxville	865-974-8392
Chemical Engineering Division	Jeffrey Rice	Auburn University	334-844-5833
Civil Engineering Division	Jeremy Waisome	University of Florida	407-342-8306
Computer Engineering and Technology Division	Daniel Kohn	University of Memphis	901-347-0382
Electrical Engineering Division	Rami Haddad	Georgia Southern University	912-478-8582
Engineering Graphics Division	Dimtra Michalaka	The Citadel	843-953-7676
Engineering Technology Div.	Jacki Smith	Chattanooga State Community College	423-697-4761
Industrial Engineering Div.	Scott Schultz	Mercer University	478-301-2840
Instructional Division	Simon Ghanat	The Citadel	843-953-7692
K-12 Division	Chuck Margraves	University of Tennessee at Chattanooga	423-425-4010
Mechanical Engineering Div.	Beth Todd	University of Alabama	205-348-1623
Professional Skills Division	Kelly Agee	Mississippi State University	662-325-0842
Research Division	David Calamas	Georgia Southern University	912-478-5751
Software Engineering Div.	Claire McCullough	University of Tennessee at Chattanooga	423-425-4352



ASEE SOUTHEASTERN SECTION CONFERENCE

March 10-12, 2019

NC State University, Raleigh, NC

CALL FOR PARTICIPATION | PAPERS, POSTERS, WORKSHOPS

Authors are invited to submit full-length manuscripts or work-in-progress papers. Our theme is **Educating Tomorrow's Engineering Entrepreneur**. Proposals are requested for participation in one of three formats: • Papers | Full paper (6 pages) or work-in-progress paper (3 pages) • Workshops | Sunday afternoon presentation with description for proceedings (2-3 pages) with optional handouts or booklets for participants • Student posters with extended abstracts, Guidelines for manuscript preparation are available at www.asee-se.org at the Conference page.

SCHEDULE FOR PAPERS (FULL OR WORK-IN-PROGRESS)

Friday, Sept. 14, 2018 Abstracts submitted by authors for consideration (250-300 words)
 Friday, Sept. 28, 2018 Notification of abstract acceptance
 Friday, Nov. 9, 2018 Full manuscripts due from authors for review Friday,
 Dec. 7, 2018 Reviewed manuscripts returned to authors
 Friday, Jan. 11, 2019 Final manuscripts due
 Friday, Jan. 18, 2019 Notification of final acceptance of paper
 Friday, Jan. 25, 2019 Deadline for presenters to register for conference

SCHEDULE FOR WORKSHOPS

Friday, Nov. 30, 2018 Due date for workshop proposal submission
 Friday, Dec. 14, 2018 Notification of proposal acceptance
 Friday, Jan. 25, 2019 Deadline for presenters to register for conference
 Sunday, March 10, 2019 Workshops held on Sunday afternoon

SCHEDULE FOR STUDENT POSTERS

Friday, Jan. 18, 2019 Extended abstracts for posters due (300-400 words)
 Friday, Feb. 1, 2019 Notification of abstract acceptance
 Friday, Feb. 15, 2019 Final posters uploaded to conference site as a single PDF
 Friday, Feb. 22, 2019 Notification of final poster acceptance
 Friday, March 1, 2019 Deadline for students to register for conference

The ASEE-SE Conference welcomes everyone interested in Engineering Education including faculty, students, department chairs, deans, and industry leaders. Workshops are held on Sunday morning and afternoon. The conference officially opens at the Sunday night reception. Monday begins with a plenary speaker followed by paper sessions and a student poster competition. Monday evening features an awards dinner with an invited speaker. Tuesday includes paper posters. We hope you will join us!

*ASEE-SE Conference
 information and the
 full Call for
 Participation can be
 found at*

asee-se.org

Chuck Newhouse, Technical Program Chair | 540.464.7364 | NewhouseCD@vmi.edu
 David Calamas, Poster Session Chair | 912.478.5751 | dcalamas@georgiasouthern.edu
 Evelyn Brown, Workshop Chair | 919.515.9559 | evelyn_brown@ncsu.edu
 Anna Howard, Conference Site Coordinator | 919.513-4019 | anna_howard@ncsu.edu