

# SOUTHEASTERN SECTION NEWSLETTER



## 2021 Section Conference To Be Held Online

With the unusual circumstances created by the continuing COVID-19 pandemic, it was decided by the Section Executive Board that the 2021 annual spring section conference would best be held virtually rather than the normal in-person gathering. This will be the first Southeastern Section Conference hosted in an online format.

The decision to move away from the physical venue scheduled to be hosted by George Mason University in Fairfax, Virginia was made with the importance of the health and safety for all and was further influenced by many institutional travel restrictions and financial considerations surrounding the pandemic. The exact dates of the virtual conference will be announced as soon as the ASEE-SE section finalizes the details and scope of the online format. We will follow our typical format and process for paper submissions.

A revised Call for Papers with an updated schedule for abstracts, manuscript submission, reviews, and final manuscripts is provided on page 9.

The theme of our 2021 annual meeting/conference remains as planned "Engineering Education 4.0: Preparing Graduates for The Next Wave of Innovation."

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The ASEE-SE Conference is open to everyone interested in improving the engineering education experience. Participants will include faculty, students, department chairpersons, college deans, and industry leaders in engineering, engineering technology, and education. The conference is an excellent opportunity to interact and reflect with colleagues over a wide range of engineering education issues and topics, as well as chart new directions and find collaborations. Please consider attending and participating in the many planned events.

Also, please regularly visit our section website [www.asee-se.org](http://www.asee-se.org) to find the call for papers, abstract submissions, workshop proposals, roundtable discussion proposals, section awards, student poster session and conference updates.



## Message from Section President Priya Goeser

Dear ASEE Southeastern Section members and friends, I hope this letter finds you and your loved ones healthy and safe. The year 2020 has certainly brought many new challenges which most of us were not prepared for – the COVID-19 pandemic has changed our lives and academia will need to adapt to meet student needs in new and innovative ways. Before we dive into the 2020–2021 academic year, let me acknowledge the outstanding leadership that Tim Wilson, Section President 2019–2020 has provided. In addition, I also am thankful to all our former Section officers, volunteers and support personnel for their excellent work over the past year.

A special thanks to the 2020 ASEE Southeastern Conference Host Site Team at Auburn University led by John Hung for their excellent attention to detail and gracious hospitality this past March. The conference was a wonderful time to share and learn! A standing ovation for David Calamas, Technical Program Chair, for masterfully handling all the technical aspects of the conference, including all the last-minute changes. As you are aware, this was the time that COVID-19 was emerging as a pandemic and a handful of institutions in our area had closed any non-essential travel a few days prior to the conference. John Hung's team with Tim Wilson's leadership had to make some quick informed decisions to make the conference a success and a safe one for everyone and I am certainly glad they did!

The ASEE Southeastern Section is the most active and largest section within the ASEE. What keeps the Section

active and vibrant? It is our membership and their participation at all levels. The Section's Annual Conference provides a great opportunity to do this and is certainly an event I look forward to every year. After hearing the inspiring talks and presentations at the conference, I have often brought home fresh ideas to implement in my classrooms and institution. The 2021 Section Conference was originally scheduled for March 7–9, 2021 at George Mason University in Fairfax, Virginia. However, after closely monitoring the COVID-19 pandemic and discussing the implications of this on the budget and travel for most of our members, the Section Leadership recently made the difficult call to move this conference online. My sincere thanks to Ken Ball, Elizabeth Dean and Christopher Carr from George Mason University, who have been working diligently to plan for this upcoming conference. I do want to recognize Todd Schweisinger, the Technical Program Chair, who will continue to play a key role in organizing the conference and Cecilia Wigal who has graciously volunteered to take the lead role as the new Conference Site Committee Chair. She and her team have already begun discussing creative ways to make this conference an outstanding one! The Conference theme "Engineering Education 4.0: Preparing Graduates for the Next Wave of Innovation" aptly reflects the excellent opportunity to interact and reflect with colleagues over a myriad of engineering education issues and topics, as well as chart new directions and collaborations. I enthusiastically encourage all section members and any others who are interested to attend this online conference! Please refer to the 'Call for Papers' for more details on abstract and paper submission. The details for workshops and student posters will be coming soon.

If you are looking for a group of like-minded educators to build friendship and comradery with, I strongly encourage you to get involved with our section! The annual section conference is a great and

*(Continued on page 3)*

## Message from Section President Priya Goeser

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affordable way to present and publish your work in engineering education as well as network with fellow educators. The conference is much smaller (150–200 attendees) compared with the national conference (3500–4000 attendees) which means it is easier to engage in conversations and build meaningful relationships. The registration cost for the conference is usually about \$250–\$300 compared with the much higher \$700 for the national conference. Once at the conference, please do attend the morning meetings during which the Division officers are elected. The Division officer election process begins by electing a new Secretary, promoting the current Secretary to the Vice Chair and promoting the Vice Chair to the Chair position. So, volunteering to be considered as a Secretary is a great way to learn more about the leadership roles in the section. This was how I began my story with the Section: Secretary of the Instructional Division, Chair of the same couple of years later, followed by Technical Program Chair and now President – it has been an exciting journey! The ASEE Southeastern Section has a legacy of strong and dedicated leadership and I am honored to be a part of it. Ever since I joined the Section, I have always been warmly welcomed by the members, encouraged to participate and have immensely grown in my understanding of the various aspects of engineering education. I hope this year you too will choose to support the ASEE Southeastern Section by your active participation and service!

This academic year will be different as we travel through unfamiliar territory amidst a pandemic – with many of us teaching online or partially online or in-person with social distancing. I am confident that we as engineering educators will find innovative ways to meet the needs of the next generation. Now what better way to showcase your innovation than to submit a paper or work-in-progress to the 2021 ASEE Southeastern Section Conference? I look forward to seeing you (online) and hearing about your work in Spring 2021.

*Priya Goeser*

Priya Goeser  
ASEE SE President  
Professor  
Department of Mechanical Engineering  
Georgia Southern University – Armstrong Campus

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*Current section officers, Conference information, and much more  
can be found at*

*[asee-se.org](http://asee-se.org)*

## Highlights of the 2020 Section Conference at Auburn University

The Samuel Ginn College of Engineering at Auburn University hosted the 2020 ASEE-Southeast Annual Conference on March 8-10, 2020 at the newly opened, \$44-million Brown-Kopel Engineering Student Achievement Center in the heart of the campus. The Auburn University Hotel and Conference Center served as the conference hotel and awards dinner venue. The attendees numbered 152 from 40 different institutions & organizations and included section members from University of Puerto Rico at Mayaguez. All attendees were delighted with the campus facilities and hospitality. Thirty-eight (38) registered students from 11 different universities attended. Nearly 100 paper were presented in addition to workshops, roundtable sessions, student posters, and invited speakers. There were 8 roundtable sessions this year and they continued to be very well received. Four workshops and two campus center tours were conducted on the Sunday schedule.

We heard from many wonderful speakers including: Bonnie Ferri, the vice provost for Graduate Education and Faculty Development at Georgia Tech in the Plenary session.

The Atrium of the Brown-Kopel Engineering Student Achievement Center made a wonderful venue for the Student Poster Session. It was well attended, lively, and sparked much discussion. Awards for the poster session were presented at the banquet the that evening.

Simon Ghanat of the Citadel presented this year's Thomas C. Evans Award winning paper on observing



*Student Poster Session in the Atrium Brown-Kopel Engineering Student Achievement Center*

undergraduates to evaluate their metacognition while studying.

A social hour and awards dinner were held at the The Auburn University Hotel and Conference Center. The section awards and recipients are provided in this newsletter. Following the social hour, a delicious meal, and the presentation of section awards, Auburn Engineering Dean Christopher Roberts and Larry Monroe (State of Alabama Engineering Hall of Fame member and Auburn Graduate) provided an insightful evening of conversation and engineering education perspectives.

Many thanks to Dean Christopher Roberts and especially to John Hung and his team for organizing and hosting a truly outstanding conference. Also, thanks to Natalia Cardelino of Mercer University for efficiently running the Student Poster Competition. The Brown-Kopel Engineering Student Achievement Center, Auburn University Hotel and the Samuel Ginn College of Engineering at Auburn University were perfect venues for our conference.

It was a wonderful and a successful conference by all measures.

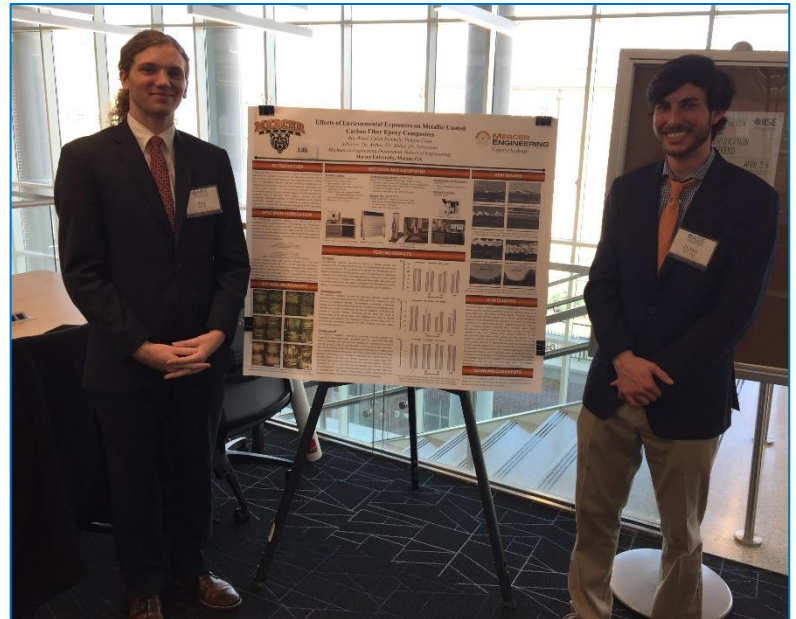


2020 Best Overall Student Poster: Laura S. Garcia Canto and Elmer Irizarry Rosario from University of Puerto Rico at Mayaguez

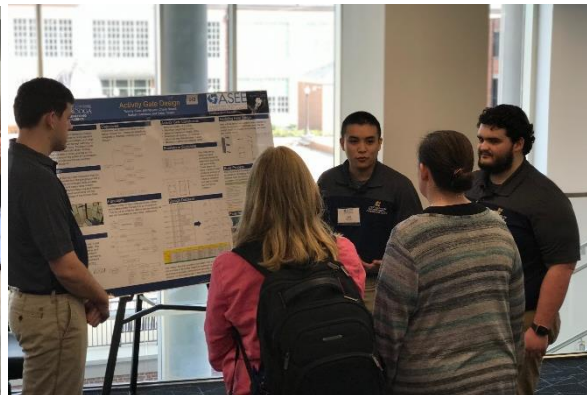
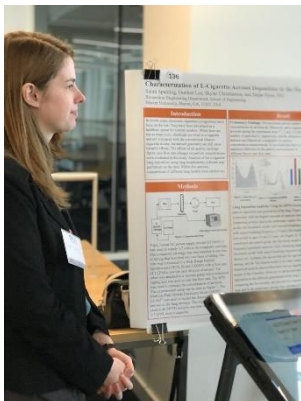
## Views of the Student Poster Session of the 2020 Section Conference in the Atrium of the Brown-Kopel Engineering Student Achievement Center



1st place Individual Undergraduate Division: Peyton Brantley from University of Alabama



1st place Junior/Senior Design Team: Roy Wood (left), Dylan Kennedy (right), and Pengyu Chen from Mercer University. |



Views of the Student Poster Session in the Atrium of the Brown-Kopel Engineering Student Achievement Center.

## Southeastern Section Award Nominations Sought for 2021 Conference.

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 shortly announced in the Call for Award Nominations, but are usually set in early January. Awards are presented at the Section Meeting and Conference. Details of this year's award nominations and presentations will be communicated to section members later this fall.

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## 2020 Section Awards

At the 2020 Annual Section Meeting a number of awards were given for excellence in engineering education.

The list of recipients and the awards presented at the 2020 Awards Banquet are:

**Tilmans-Dion Service Award:** Scott Schultz, Mercer University

**Thomas C. Evans Engineering Instructional Paper Award:** Simon Thomas Ghanat, The Citadel et al, "Bias and Precision in Instructor Grading of Concept Inventories in Geotechnical Engineering Courses"

**Section Outstanding Teaching Award:** Ann Saterbak, Duke University

**Section Outstanding Mid-Career Teaching Award:** Leslie Strawderman, Mississippi State University

**Section Outstanding New Teacher Award:** Timothy A. Wood, The Citadel

**Section New Faculty Research Award, First Place:** Waseem Asghar, Florida Atlantic University

*ASEE-SE Conference and Awards information can be found at [asee-se.org](http://asee-se.org)*

## Student Poster Competition Winners from the 2020 Annual Section Conference

### **1st Place – Freshman/Sophomore Design Team Poster**

Maksim Mikhaylishin and Alexis Serna from University of Tennessee at Chattanooga

### **1st Place – Junior/Senior Design Team Poster**

Roy Wood, Dylan Kennedy, and Pengyu Chen from Mercer University

### **2nd Place – Junior/Senior Design Team Poster**

Sarah Spalding, Gunhee Lee and Skylar Christianson from Mercer University

### **3rd Place – Junior/Senior Design Team Poster**

Ryan Field, Zachary Kubas, Darren Pickren and Safi Rahmanv from Mercer University

### **1st Place – Individual Research Poster**

Peyton Brantley from University of Alabama

### **2nd Place – Individual Research Poster**

Rigel Quinn from University of Tennessee at Martin

### **3rd Place – Individual Research Poster**

Elizabeth Turochy from Auburn University

### **Best Overall Undergraduate Student Poster – Southeast Section**

Laura S. Garcia Canto and Elmer Irizarry Rosario from University of Puerto Rico at Mayaguez

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## Future Section Conference Locations

**2022 The Citadel - Charleston, SC**

**More details to follow online regarding locations for 2023 and beyond.**

## ASEE Southeastern Section Officers

### The new officers for the 2020-2021 year are:

President	Priya Goeser	Georgia Southern University	912-344-2874
President Elect	Charles (Chuck) Newhouse	Virginia Military Institute	540-464-7364
Immediate Past President	Tim Wilson	Embry-Riddle Aeronautical University	386-226-6994
Secretary	Cecelia Wigal	University of Tennessee at Chattanooga	423-425-4015
Treasurer	Monika Bubacz	The Citadel	843-953-0530
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	University of Georgia	706-542-1653

### Vice Presidents

Programs Unit	David Calamas	Georgia Southern University	912-478-5751
Awards & Recognition Unit	Monika Bubacz	The Citadel	843-953-0530
Publications & Promotion Unit	Richard Stansbury	Embry-Riddle Aeronautical University	386-226-7923

### Division Chairs

Administrative Division	Otsebele Nare	Hampton University	757-727-5818
Bioengineering Division	Chuck Margraves	University of Tennessee at Chattanooga	423-425-4010
Chemical Engineering Division	Jeffrey Rice	Auburn University	334-844-5833
Civil Engineering Division	Simon Ghanat	The Citadel	843-953-7692
Computer Engineering and Technology Division	Tyson Hall	Southern Adventist University	423-236-2916
Electrical Engineering Division	Thomas Murphy	Georgia Southern University	912-344-2709
Engineering Graphics Division	Kweku Brown	The Citadel	860-617-2216
Engineering Technology Div.	Dimtra Michalaka	The Citadel	843-953-7676
Industrial Engineering Div.	Cecelia Wigal	University of Tennessee at Chattanooga	423-425-4015
Instructional Division	David Greenburg	The Citadel	843-953-9811
K-12 Division	Aaron Smith	Mississippi State University	228-497-7737
Mechanical Engineering Div.	Dustin Spayde	Mississippi State University	662-325-6711
Professional Skills Division	Jeremy Waisome	University of Florida	407-342-8306
Research Division	Anna Howard	NC State	919-513-4019
Software Engineering Div.	Donald Ekong	Mercer University	478-301-2271





## ASEE Southeastern Section Conference

Spring 2021 (exact date TBA soon)

Online (virtual platform TBA soon)

### ENGINEERING EDUCATION 4.0:

#### PREPARING GRADUATES FOR THE NEXT WAVE OF INNOVATION

The ASEE-SE Conference is open to everyone interested in improving the engineering education experience. Participants include faculty, students, department chairpersons, college deans, and industry leaders in engineering, engineering technology, and computing education. The conference is an excellent opportunity to interact and reflect with colleagues over a myriad of engineering education issues and topics, as well as chart new directions and collaborations.

#### CALL FOR PRESENTATION PAPERS AND ABSTRACTS

Authors are invited to submit full-length manuscripts (6 pages) 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
- Cross-Discipline Practices
- Online, Distance, and Blended Approaches
- Technologies for Efficient Learning
- K-12 Outreach Programs
- Learning Communities
- Innovative and Theoretical Concepts Exploring DEI
- Experiential Learning
- ABET Accreditation Projects
- Recruitment and Retention
- Industry Partnerships
- Engineering Common Cores
- Capstone Design Courses or Projects
- Ethics and Professional Development
- Promoting Classroom Inclusivity w/ Social Media

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

Full-length 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 (3) papers or presentations.

The conference will include a student program. Details of the student program will be announced soon.

#### SCHEDULE FOR SUBMISSION OF FULL-LENGTH PAPERS

<b>Friday, October 2, 2020</b>	<b>Abstracts submitted by authors for consideration</b>
Friday, October 16, 2020	Authors notified regarding acceptance
Friday, November 27, 2020	Draft manuscripts due from authors for review
Wednesday, December 23, 2020	Reviewed manuscripts returned to authors
Friday, January 29, 2021	Final manuscripts due from authors
Friday, February 5, 2021	Notification of final paper acceptance
Friday, February 12, 2021	Deadline for presenters to register for conference

**Submit a 250-300 word abstract in doc, docx, or pdf file format by October 2, 2020.**

Please visit <http://www.asee-se.org> for details.

#### CONTACTS

Todd Schweisinger, PhD, PE, Technical Program Chair, (864) 656-5542, [todds@clemson.edu](mailto:todds@clemson.edu)  
 Cecelia M. Wigal, PhD, PE, Conference Site Committee Chair, [Cecelia-wigal@utc.edu](mailto:Cecelia-wigal@utc.edu)