

SOUTHEASTERN SECTION NEWSLETTER



2017 Section Meeting Joins Zone 2 Conference in Puerto Rico

In 2017, our Southeastern Section will collaborate with all Zone 2 Sections for a joint Zone 2 Conference in the Southeastern Section location of beautiful San Juan, Puerto Rico, March 2–5, 2017. All three sections will jointly be hosting the Zone 2 conference instead of individual sectional conferences. Our Zone 2 consists of the North Central Section, the Illinois Indiana Section and the Southeastern Section. The ASEE has 12 sections organized into 4 Zones.

"Engineering Everywhere for Everyone" is the conference theme. Thus, the conference is open to everyone and anyone. You do not have to be a member of Zone 2 to attend the conference.

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The Section Conference venue is the Caribe Hilton Hotel in San Juan, Puerto Rico. The hotel is located on an exclusive, beautiful 17-acre peninsula with easy access to historic Old San Juan.

This Zone 2 conference is a wonderful opportunity for academic and industry representatives to discuss and share relevant topics in improving the engineering experience. Participants include college deans, department chairs, student service professionals,

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Historic Castillo San Felipe del Morro in San Juan



Street View in Old San Juan

2017 Zone II Conference to be Held in Puerto Rico

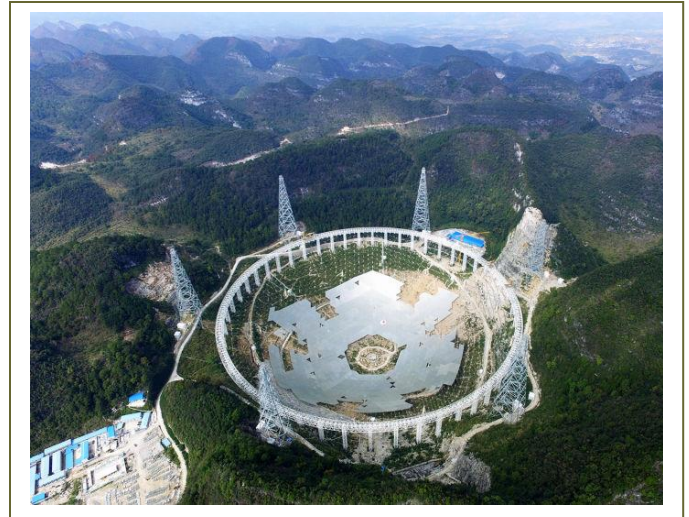
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advisors, faculty in engineering and engineering technology, K–12 teachers, and industry leaders from throughout the country.

There are numerous points of interest and activities in Puerto Rico. A sampling of popular activities in San Juan include visiting Old San Juan, the Bacardi Factory, El Morro, museums as well as enjoying the beautiful beaches and rainforest.

Puerto Rico is the home of the world's current largest single-dish radio telescope, the Arecibo Observatory. A visit outside San Juan to the Arecibo Observatory is also recommended.

Convenient airline connections can be made into San Juan's Luis Munoz Marin International Airport (SJU).



The Arecibo Observatory In Puerto Rico

Current Zone 2 Conference information can be found at

zone2.asee.org



Message from Section President, John Brocato

Greetings, ASEE Southeastern Section members! I must begin by thanking Scott Schultz, Section President 2015–16, and all other section officers for their superb leadership and service over the past year and beyond. Thanks also to the University of Alabama for hosting an outstanding 2016 ASEE–SE conference, especially site coordinator Beth Todd and technical program chair Priya Goeser. In my role as ASEE Campus Representative at Mississippi State, I'm fond of telling prospective ASEE members that I always return from our conferences with at least five or six new ideas to try in the classroom, and the Bama conference was no exception. Great job, everyone!

This coming year, the Southeastern Section is doing something it hasn't done in decades: co-hosting a Zone II Conference with our sister sections, North Central and Illinois–Indiana. The conference is scheduled for March 2–5, 2017 at the Caribe Hilton in beautiful San Juan, Puerto Rico, and the theme, "Engineering Everywhere for Everyone," couldn't be timelier as we redouble our efforts to ensure a high-quality engineering education for every single engineering student. Authors interested in presenting at this conference should submit an abstract by September 9, 2016; please see the call for papers in this newsletter for additional details. I want to thank Barbara Bernal who is serving as the tireless and enthusiastic host-site coordinator and is actively planning an array of exciting events, including a Graduate Student Recruitment Fair and an optional visit to the Arecibo Observatory, home of the world's largest radio telescope. I also want to recognize Sally Pardue who has what everyone agrees is the hardest conference-related job, that of technical program chair.

Message from Section President, John Brocato

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If you don't already participate at the section level, I strongly encourage you to do so. Our annual section conference is a terrific and 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. The conference itself is much smaller than the national conference (150-200 or so attendees vs. 3500-4000), which many of us find enables an easier, more substantive, and more effective exchange of ideas. It's also significantly less expensive - the section early registration rate for the past few years has been \$250 (including all meals) compared with the national early registration rate of \$700. Also helping to defray costs are the often nearby conference locations, meaning you can easily drive instead of fly (this obviously doesn't apply to most of us for Puerto Rico in 2017, but that's a rarity).

The process of becoming more involved and taking on leadership roles in the section is relatively simple.

Start by attending the annual section conference.

1. You start, of course, by attending the annual section conference.
2. During the conference, we hold meetings during the Monday and Tuesday breakfasts at which Division officers are elected. You come to one or both breakfasts and volunteer for an office.
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!

Taking on a Secretary office in a Division, therefore, is the entry point to all additional officer appointments.

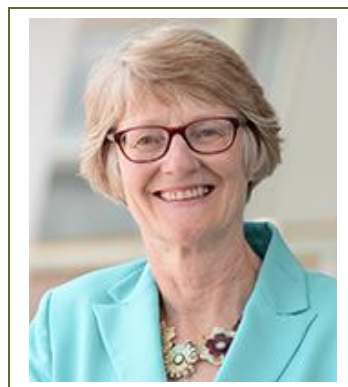
So please help continue sustaining and enhancing the ASEE-SE section. Join us in March 2017 for the Zone II Conference in Puerto Rico. Become an active member of the section, and consider becoming an officer within the organization. Hope to see you in March!

Highlights from the 2016 Conference at Tuscaloosa

The University of Alabama hosted the 2016 Annual Section Meeting in Tuscaloosa, Alabama at their Southern Engineering Research Center in Shelby Engineering and Science Quad. 75 papers and presentations along with 16 student poster presentations were given. Our keynote speaker was Dr. Sarah Rajala, Dean of the College of Engineering at Iowa State University, and former past president (2014-2015) of the national ASEE organization who addressed the Proposed Changes to ABET Criteria 3 and 5.

Sunday evening, a welcome reception was held at the Mugshots Restaurant in the heart of Tuscaloosa. House specialty burgers and a tasty strawberry cheese cake were among the awesome food and beverage served.

The Embassy Suites in Tuscaloosa was a great venue



Dr. Sarah Rajala was the ASEE-SE Keynote Speaker

to host the plenary session and breakfast meetings.

The Awards Banquet on Monday evening was held at the River Market with a delicious dinner catered by Jim 'N Nick's Bar-B-Q. A summary of the awards, including the student poster session awards is provided in the next section.

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2016 Conference at Tuscaloosa

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Following the awards presentations attendees were delighted to have Dr. Peter Ludovice, Director of the Center for Academic Enrichment at Georgia Tech and Professor of Chemical & Biomolecular Engineering, graciously perform his unique brand of stand-up comedy mixing humor with technical education.

Many thanks to Dr. Stuart Bell, President of The University of Alabama, Dr. Beth Todd, the conference site coordinator, and all her team for hosting a great conference.



University of Alabama's Southern Engineering Research Center in the Shelby Engineering and Science Quad

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

2016 Section Awards

At the 2016 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: Mohammad Gabr, NC State University

Section Outstanding New Teacher Award: Alta Knizley, Mississippi State

Section Outstanding Mid-Career Teaching Award: Salil Desai, North Carolina A&T State University

Section New Faculty Research Award: Veera Gnaneswar Gude, Mississippi State University

Outstanding Campus Representative Award: Cindy Waters, North Carolina A & T University

Tilsmans-Dion Section Service Award for Outstanding Service to the Section: Kenneth P. Brannan, The Citadel

Outstanding Paper Award for 2016 ASEE-SE Conference: Scott Schultz and Pablo Biswas, Mercer University,
"When Opportunity Knocks - An Alternative Summer Engineering Internship"

Student Poster Competition Winners 2016 ASEE-SE Conference

Junior/Senior Engineering and/or Engineering Technology Design Teams

First: Heather Davidson, David Dawson, Aruoture Egoh, Daniel Elliott, Norris McMahon, Erik Spilling, *Determining the Effectiveness of Oleophobic Gaskets*, FAMU-FSU College of Engineering

Second: Kaelyn Badura, Ben Bazylar, Courtnie Garko, Benalle Lemos, Yuri Lopes, Tomas Solano
Autonomous Continuous Microalgae Photobioreactors, FAMU-FSU College of Engineering

Third: Alex Freehof, Brandon Greene, Dhruv Patel, *Patient-Specific 3D-Printed Partial-Hand Prosthesis*, Mercer University

Undergraduate Research Individual

First: Matt Bowen, *Mobile Video Velocity Estimation (MoVVE)*, University of Alabama

Second: Collin Daly, *H.265 Video Traffic Prediction Models Using Artificial Neural Networks*, Georgia Southern University

Third: Ryan Yeargin, *Porosity Analysis in Porous Brass Using Dual Approaches*, North Carolina A&T State

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

No eligible submissions

Best Overall Student Poster

Matt Bowen, *Mobile Video Velocity Estimation (MoVVE)*, University of Alabama.

Future Conference Locations

2018 Embry-Riddle Aeronautical University, Daytona Beach, FL

2019 Auburn University, Auburn, AL

ASEE Southeastern Section Officers

The new officers for the 2016-2017 year are:

President	John Brocato	Mississippi State University	662-325-1493
President Elect	Hodge Jenkins	Mercer University	478-301-2831
Immediate Past President	Scott Schultz	Mercer University	601-266-6419
Secretary	Cecelia Wigal	UT 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	Barbara Bernal	Kennesaw State University	678-915-4283

Vice Presidents

Programs Unit Awards & Recognition Unit	Priya Goeser	Armstrong State University	912-344-2874
Publications & Promotion Unit	Tim Wilson	Embry-Riddle Aeronautical University	386-226-6994
	Sarah Lee	Mississippi State University	662-325-2756

Division Chairs

Administrative Division	Tim Wilson	Embry-Riddle Aeronautical University	386-226-6994
Bioengineering Division	Sinjaee Hyun	Mercer University	478-301-2214
Chemical Engineering Division	Jennifer Pascal	Tennessee Tech University	931-372-3606
Civil Engineering Division	M. A. Karim	Kennesaw State University	678-915-3026
Computer Engineering and Technology Division	Richard S Stansbury	Embry-Riddle Aeronautical University	386-226-7923
Electrical Engineering Division	Harry C. Powell	University of Virginia	434-924-6107
Engineering Graphics Division	Chester Little	Austin Peay	615-838-8765
Engineering Technology Div,	vacant		
Industrial Engineering Div.	Chester Little	Austin Peay State University	615-838-8765
Instructional Division	Cecelia Wigal	UT Chattanooga	423-425-4015
K-12	David Calamas	Georgia Southern University	912-478-5751
Mechanical Engineering Div.	Alta Knizley	Mississippi State University	662-325-9303
Professional Skills Division	Matthew Jensen	Florida Institute of Technology	321-674-7103
Research Division	John Brocato	Mississippi State University	(662)325-1493
Software Engineering Div.	Richard Stansbury	Embry-Riddle Aeronautical University	386-226-7923
	Keith Garfield	Embry-Riddle Aeronautical University	386-266-7081



For updated conference information please visit

zone2.asee.org