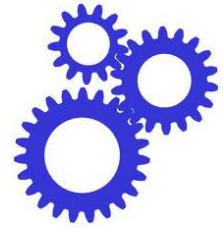




ME NEWS



FALL 2019

2019-2020 ME Division Chair: Matthew Gordon

Dear ASEE Mechanical Engineering Division members and fans:

First—thank you for your membership! We remain one of the strongest divisions in ASEE. I believe in the value of our organization to strengthen and mature engineering education, and to best meet the ever-changing challenges faced in our discipline.

The program for the 2020 conference in Montreal is well underway, and I am happy to see solid participation again in our division. A special thanks to Tom DeNucci for doing the heavy lifting this year as our Program Chair.

I would like to again honor Ramesh Agarwal, the William Palm Professor of Mechanical Engineering and Materials Science at Washington University in St. Louis, who received the ASEE Ralph Coats Roe Award at this year’s conference in Tampa. This award, consisting of a \$10,000 honorarium and plaque, recognizes a mechanical engineering educator who is an outstanding teacher and who has made notable professional contributions.

Other division members were recognized at the 2019 conference with significant awards. Lindy Hamilton Mayled, Lydia Ross, Casey Jane Ankeny, and Jay Oswald, of Arizona State University and Northwestern University, earned the Mechanical Engineering Division Best Paper with their work entitled “Effects of Alternative Course Design and Instruction Methods in the Engineering Classroom.” Additionally, this paper was selected as our PIC 1’s best paper and will be presented in Montreal. Krishna Pakala, of Boise State University, was selected by the awards committee as the 2018 Outstanding New Mechanical Engineering Educator.

It is important to recognize excellence in our field, and that only happens through your efforts. Please submit nominations now for deserving ME educators both new and long-distinguished. This site gives more information about the Roe Award nominations, due January 15. Nominations for the Outstanding New ME Educator may be emailed to the Awards Selection Committee Chair no later than January 31.

Please also consider participation in any of the other important roles in our division, including awards or leadership positions. This division runs on 100% volunteer steam, and it is a great group of people whom I am blessed to work with. But all our positions have a fairly short commitment, so we are always looking for new folks to help.

Thank you for all you do with and for ASEE.

Matt Gordon
Professor and Chair
Mechanical and Materials Engineering Department
University of Denver
ASEE ME Division Chair 2019-20

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Suggestions, feedback, and contributions for future editions may be sent to the Editor, Diane Peters, email: dpeters@kettering.edu

Notes from the editor

Newsletter Contributions. I am always looking for great articles for this newsletter, similar in style and length to the type you see within this edition. Feel free to submit great articles anytime even though the newsletter is produced only in the fall and spring. Just email your articles directly to me or any of the Division officers (listed on page 3). The ME Division website is also a good place to find current events and lists of important contacts and dates. If you have details you'd like the entire division to see, send them to me as well.

The division website location is the same as you have previously seen: <http://mechanical.asee.org/>. Watch for upcoming updates to the website. We look forward to serving the division and meeting your mechanical engineering educational needs.

2019 ASEE Conference Activities

We had a wide variety of events at this past summer's ASEE conference. One of the earlier events in the conference was the annual Division Mixer, where attendees had a chance to learn more about the different divisions within ASEE.



Division Leadership (Matthew Gordon & David Mikesell) at the Division Mixer! Thanks to all who came by the table.

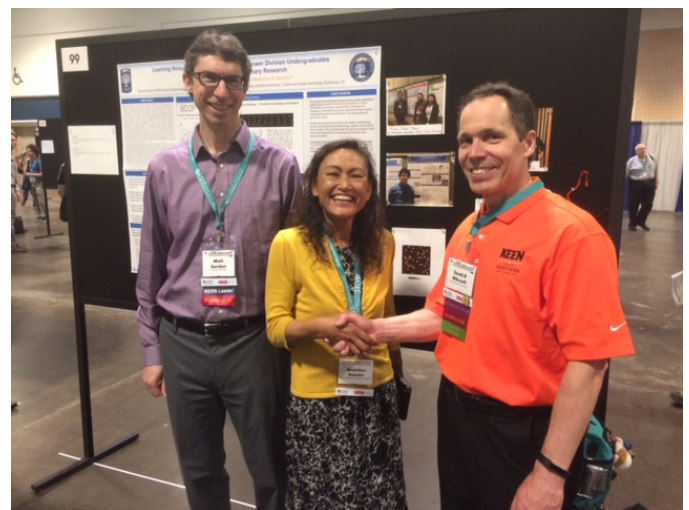
The conference featured the annual Convivium, which took the form of a dinner cruise, and the presentation of Division awards. The most prestigious Division award, the Ralph Coats Roe Award, was presented to Ramesh Agarwal of Washington University, who presented to the

division members during the dinner cruise. Our outstanding new ME Educator award was presented to Krishna Pakala.



Congratulations to Dr. Ramesh Agarwal, winner of the Ralph Coats Roe Award!

Our Best Poster award went to *Learning through Discovery: Empowering Lower Division Undergraduates to Engage in Cross-Disciplinary Research*, authored by Dr. Nina Robson (California State University, Fullerton), Dr. Cynthia Gautreau (California State University Fullerton), and Dr. Madeline E. Rasche (California State University, Fullerton). The presenter was Madeline Rasche.



Congratulations to our Best Poster award winners!

2020 ASEE Conference Activities

It's currently just fall, but before we know it next summer will be here, and we'll be traveling to Montreal for the 2020 ASEE Conference. Reviews of paper abstracts have

been completed, and the papers themselves will be coming in over the upcoming couple of months. If you're interested in serving as a reviewer for papers, it's not too late to volunteer – just contact our program chair, Tom DeNucci, and let him know you're interested.

We'll be presenting the Ralph Coats Roe award at the conference, and there's still time to nominate a worthy candidate for that! If you'd like to make a nomination, they are due January 15th to ASEE headquarters. More information is available at

<https://www.asee.org/member-resources/awards/guidelines/awards-nomination-guidelines>

Positions Available

Faculty Position in Mechanical Engineering at Angelo State University - Mechanical Design & Manufacturing

Angelo State University, is seeking dynamic and energetic faculty in the areas of mechanical design, design for manufacturing, and applied controls and robotics. We are seeking faculty to join our team building the recently created David L. Hirschfeld Department of Engineering. We are a Hispanic Serving Institution and member of the Texas Tech University System. The program is in its third academic year, is well resourced, and currently has 100 majors. We expect our first mechanical engineering student to graduate in spring 2021 and will seek ABET accreditation at that time. Successful candidates must be able to work collaboratively to build an integrated, broad-based mechanical engineering curriculum, and the assessment plan needed for ABET accreditation. This position will be filled at the Assistant Professor level. This is full-time, nine month. Starting dates will be no later than August 2020.

Interested applicants should contact Dr. Gustavo Vargas-Silva or Dr. William Kitch, engineering@angelo.edu, 325-942-2483.

Complete position descriptions and applications forms are available at:

• < <https://academiccareers.com/job/6346> > or

• <<https://employment.angelo.edu/postings/3138>>

Faculty Position in Mechanical Engineering at Kettering University – Dynamic Systems & Controls

The Department of Mechanical Engineering at Kettering University invites applications for a tenure track position at the Assistant Professor level starting immediately. Candidates with interests and expertise in dynamic systems and controls, robotics, mechatronics, autonomous vehicles, advanced mobility systems, and/or crash safety are encouraged to apply. Required qualifications include: (1) Ph.D. in Mechanical Engineering or a closely related field, (2) ability to teach undergraduate and graduate courses, (3) experience and excellence in teaching and working with students, (4) ability to conduct scholarly and applied research, (5) good oral and written communication skills in the English language, and (6) proof of legal authority to work at Kettering University.

The Mechanical Engineering Department offers BS and MS degrees in Mechanical Engineering and has an undergraduate and graduate enrollment of about 1200 students. The department consists of 29 full-time faculty members, and state-of-the-art laboratories that support teaching and scholarship in the areas of advanced mobility, alternative energy and fuel cells, automotive systems, crash safety, bioengineering, and machine design.

Kettering University is a national leader in experiential STEM (science, technology, engineering, math and business) education, integrating an intense academic curriculum with applied professional experience. Through this proven approach we inspire students to realize their potential and advance their ideas by combining theory and practice. Kettering University is dedicated to achieving the extraordinary through technological innovation, leadership, and service, built on values that foster respect, integrity, creativity, collaboration, and excellence in growth, global leadership, community outreach, and an engaged community of stakeholders.

Screening of applicants will begin immediately and applications and nominations will be considered until the position is filled. For a detailed job description, required

qualifications and application instructions, go to <http://jobs.kettering.edu/postings/5196>.

Applicants should include a cover letter, curriculum vitae, statements on teaching and research, and three professional references.

ASEE ME Division Executive Committee 2019-2020

Our division's officers are:

Chair: Matthew Gordon, University of Denver
Program Chair: Tom DeNucci, U.S. Coast Guard

Academy
Program Chair-Elect: Rungun Nathan, Penn State University
Secretary/Treasurer: Anna Howard, NC State University
Nominating Committee Chair: David Mikesell, Ohio Northern University
Awards Selection Chair: Brian Novoselich, U.S. Military Academy
Newsletter Editor: Diane Peters, Kettering University
Members at Large: Pavan Karra, Nathan Washuta, Maryam Darbeheshti