ASEE MEMBERS

We are honored to be writing to you as ASEE moves ahead on its journey of another (we hope!) 125 years.

In June 2019, ASEE closed out a year-long celebration of our first 125 years—our quasquicentennial—during which we examined our past in celebration and anticipated our future with plans and goals for staying relevant for you, our members, for decades to come.

Part of changing and adapting our Society, of course, is focusing on diversity and welcoming all people into ASEE. Looking beyond traditional notions of diversity is critical, and one area of focus this year was a group of people we refer to as “professional track” faculty, though they have recently been more commonly called “non-tenure-track faculty.” This term stems from what is called “deficit thinking,” or being defined by what you are not instead of what you are. ASEE wants to recognize these teaching-focused faculty for the expertise they bring and the contributions they make to educating our students.

Professional-track faculty comprise a significant percentage of the faculty in engineering and engineering technology programs and they teach a growing share of courses in the curriculum. ASEE continues to explore what models work best in managing and embracing these faculty members by creating best practices. The Monday keynote speaker at the 2019 annual conference was Dr. Emily Boyd, who focused on this topic.

On the topic of diversity, in this report you’ll find information about ongoing developments in this area. Co-located with the Engineering Deans Institute in 2019 was the Engineering Deans Gender Equity meeting, a project that seeks to reduce barriers to effective recruitment, retention, and advancement of women engineering faculty. Further, we launched the ASEE Diversity Recognition Program to publicly recognize those engineering and engineering technology colleges that make significant, measurable progress in increasing the diversity, inclusion, and degree attainment outcomes of their programs. Recognition occurs at three levels—bronze, silver, and gold—and more than 70 institutions were recognized in year one.

The Board of Directors continued its effort of long-range strategic planning this year. ASEE’s objectives are clear and direct: Communication and Communities; Innovation and Excellence; Access, Diversity, and Inclusion; Advocacy and Public Policy; and Financial Sustainability and Internal Organization. With these goals in mind, the Board held numerous strategic planning sessions last year as we honed our focus under these objectives.

The education of future engineering professionals is changing quickly—whether it’s the evolving characteristics of incoming student cohorts, instructional technology, or the new and challenging needs of employers, ASEE must remain nimble to meet the needs of our members and our community. With numerous constituent groups among our members, we are working hard to lead ASEE in a direction that benefits all.

We hope you will take some time to review the highlights of the past year.

NEW ASEE FELLOWS

Lisa C. Benson
Clemson University

Angela R. Bielefeldt
University of Colorado-Boulder

Lisa G. Bullard
North Carolina State University

Ann D. Christy
Ohio State University

Milo Koretsky
Oregon State University

Ann F. McKenna
Arizona State University

John L. Falconer
University of Colorado-Boulder

Joseph R. Herkert
North Carolina State University

Julie P. Martin
Clemson University

“ASEE’S OBJECTIVES ARE CLEAR AND DIRECT: COMMUNICATION AND COMMUNITIES; INNOVATION AND EXCELLENCE; ACCESS, DIVERSITY, AND INCLUSION; ADVOCACY AND PUBLIC POLICY; AND FINANCIAL SUSTAINABILITY AND INTERNAL ORGANIZATION.”
2019 SOCIETY AWARDS

**ASEE PRESIDENT’S AWARD**
Purdue INSPIRE—Engineering Gift Guide

**BENJAMIN GARVER LAMME AWARD**
H. Vincent Poor
Princeton University

**CHESTER F. CARLSON AWARD**
Matthew W. Ohland
Purdue University

**CLEMENT J. FREUND AWARD**
Patricia D. Bazrod
Georgia Institute of Technology

**DUPONT MINORITIES IN ENGINEERING AWARD**
Sylvanus N. Wosu
University of Pittsburgh

**FREDRICK J. BERGER AWARD**
Keith V. Johnson
East Tennessee State University

**ISADORE T. DAVIS AWARD**
Joseph J. Rencis
California State Polytechnic University—Pomona

**JAMES H. MCGRAW AWARD**
Kenneth Burbank
Purdue University

**JOHN L. IMHOFF AWARD**
Jayant Rajgopal
University of Pittsburgh

**LIFETIME ACHIEVEMENT AWARD**
K. L. DeVries
University of Utah

**NATIONAL OUTSTANDING TEACHING AWARD**
Mark M. Budnik
Valparaiso University

**ROBERT G. QUINN AWARD**
Daniel B. Oerther
Missouri University of Science & Technology

**SHARON KEILLOR AWARD**
Jenna P. Carpenter
Campbell University

**WILLIAM ELGIN WICKENDEN AWARD**
Stephen Secules
Purdue University

Ayush Gupta
University of Maryland—College Park

Andrew Elby
University of Maryland—College Park

Chandra Turpen
University of Maryland—College Park

**LIFETIME ACHIEVEMENT AWARD**
K. L. DeVries
University of Utah

**NATIONAL OUTSTANDING TEACHING AWARD**
Mark M. Budnik
Valparaiso University

**POLICY ENGAGEMENT**

Funding and political support for engineering, engineering technology, and engineering education research is important to most ASEE members. In addition, ASEE and its members are concerned with policies that further the technological literacy of Americans.

ASEE leverages partnerships inside and outside of Washington, D.C., to maintain our influence and further the interests of our members. These partners include Lewis-Burke Associates LLC, our government relations firm; the STEM Education Coalition; the Alliance for Science and Technology Research in America; and the Coalition for National Science Funding.

In 2019, ASEE’s annual Public Policy Colloquium of engineering deans brought almost 200 participants to Washington for a two-day event of briefings on the federal landscape as it relates to STEM funding and support. The event culminated with trips to Capitol Hill to hear from members of Congress and to meet with representatives.

The Engineering Technology Council now uses its annual meeting, the Engineering Technology Leaders Institute, as an opportunity for policy discussion. The October 2018 meeting, “Engineering Technology Leaders: Expanding the Brand,” explored how engineering technology, at its 50-year anniversary, can look forward to its next 50 years. ETLI participants visited their congressional representatives as part of this meeting. The event also included a presentation from Victor McCrary of the National Science Board.


ASEE members and leaders traveled widely this year. Several staff and members attended the World Engineering Education Forum—Global Engineering Deans Council meetings in Albuquerque, N.M., in November 2018. In addition, we sent leadership delegations to conferences in China, Hungary, Jamaica, Japan, and Nigeria.

ASEE proudly launched the ASEE Specialist program this year, a response to growing requests for American expertise from international partners. This program connects ASEE members with international colleagues seeking aid with pedagogical and/or technical training for faculty, as well as curriculum and program development. The program has received nearly 100 applicants and growing interest has led us to offer it to U.S.-based institutions as well.

“ASEE LEVERAGES PARTNERSHIPS INSIDE AND OUTSIDE OF WASHINGTON, D.C., TO MAINTAIN OUR INFLUENCE AND FURTHER THE INTERESTS OF OUR MEMBERS.”
DIVERSITY AWARD RECIPIENTS

Auburn University 
Boston State University 
Boston University 
California Polytechnic State University-San Luis Obispo 
Campbell University 
Carnegie-Mellon University 
City College of New York 
Drexel University 
Duke University 
Florida A&M University-Florida State University 
Georgia Institute of Technology 
Grand Valley State University 
Harvard University 
Indiana University-Purdue University-Indianapolis 
James Madison University 
Johns Hopkins University 
LaSalle College 
Michigan State University 
Mississippi State University 
Missouri University of Science & Technology 
North Carolina State University 
Northeastern University 
Northwestern University 
Oakland University 
Oregon State University 
Rice University 
Rochester Institute of Technology 
Rowan University 
Rutgers University 
San Diego State University 
Sewanee Institute of Technology 
Stony Brook University 
Taox A&M University 
The College of New Jersey 
University of California-Berkeley 
University of California-Davis 
University of California-Irvine 
University of California-Merced 
University of California-Santa Cruz 
University of California-Los Angeles 
University of Massachusetts-Amherst 
University of Massachusetts-Dartmouth 
University of Massachusetts-Lowell 
University of Michigan 
University of Minnesota-Twin Cities 
University of New Mexico 
University of North Carolina-Charlotte 
University of North Carolina-Chapel Hill 
University of South Florida 
University of South Carolina 
University of Tennessee-Knoxville 
University of Texas-Arlington 
University of Texas-Dallas 
University of Texas-Austin 
University of Virginia 
Virginia Commonwealth University 
Virginia Tech 
Washington State University 
Washington University 
West Virginia University 
Western Michigan University

“ASEE IS CONSULTING WITH ACADEMIC LEADERS AND INSTITUTIONAL RESEARCH OFFICES ON THE REDESIGN OF OUR NATIONAL SURVEY PLATFORMS AND DATA MINING TOOL.”

EXPANDING ENGAGEMENT

ASEE has produced several webinars on topics such as student success, inclusive teaching, and research impact. Registration and attendance have been increasing, reaching individual benchmarks of 200-plus registrants and 100 attendees. As our library of webinars grows, we will revise our strategies to market “on-demand webinars,” highlighting value for ASEE members. We will also explore opportunities to feature ASEE products and services in future webinars, and we will soon offer a webinar on salary negotiations, featuring the results of our salary survey.

This Alpha Pi, the honor society for engineering technology, is administered by ASEE headquarters. Last year, it inducted 365 new members and restated five chapters that had been previously inactive. It is currently undergoing a restructuring of its activities with an increased emphasis on participation and service among its members.

DIVERSITY, EQUITY, AND INCLUSION

ASEE, with support from our Engineering Deans and Engineering Technology councils, launched the ASEE Diversity Recognition Program (ADRP) to publicly recognize those developing engineering and technology colleges that make significant, measurable progress in increasing the diversity, inclusion, and degree attainment outcomes of their programs. We recognize institutions at the bronze, silver, and gold levels, with only bronze achievable in this initial year. See the list of institutions on this page and the list on ASEE-PRISM.ORG.

The ASEE Diversity Awards recognizes the work of ASEE members in improving diversity, equity, and inclusion in the engineering profession. These awards provide recognition to academic institutions that have made significant contributions to the diversity and inclusion movements. The purpose of this program is to increase awareness of the benefits of diversity, equity, and inclusion in the engineering profession, and to recognize the achievements of those who have made significant contributions to these movements.

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DATA ANALYTICS AND INSTITUTIONAL RESEARCH

ASEE is the premier source of information for industry, academic, and government leaders who need to know what the potential engineering and engineering technology workforce looks like today and could be tomorrow. ASEE data:

- help our industry partners identify new recruits for employment and areas where the graduating workforce can support new technological expansion;
- give institutional leaders the tools to show government stakeholders progress and identify new targets of opportunity; and
- enable local, state, and federal decision makers to make sound judgments in developing the current and future engineering workforce.

FEBRUARY 2020
Advances in Engineering Education (AEE)

Documenting and disseminating true “advances” informed by research in engineering education practices and pedagogy is the purpose of the peer-reviewed Advances in Engineering Education. In that way, AEE focuses on the implementation of research results, rather than the research itself. Of particular uniqueness to AEE is that authors are encouraged to submit papers incorporating the creative use of media, including animation, audio, graphics, and video. This marked AEE’s eighth year, the journal has received more than 1,000 submissions, with an acceptance rate of 25 percent and an increasing number of submissions from overseas. Two issues of the journal were published this year with a total of 22 papers. The papers covered a wide range of topics focusing on relevant learning experiences from freshman to graduate student. The Fall issue featured a set of papers on the entrepreneurial mindset. The Spring issue addressed a variety of subjects including project-based learning, online videos, and asynchronous peer-to-peer learning. Upcoming issues will feature the midyears’ education experience, engineering ethics, social entrepreneurship, and most innovative engineering programs.

Communicating for the Community

ASEE’s Art and Editorial departments continue their successful collaboration in the Society’s standout magazine, Prism, the voice for the engineering education community. Prism won numerous awards this year, including:

APEX

Publication Excellence – Writing – “The Mind’s Eye”

Publication Excellence – Writing – “The Last Straw”

Association Trends

All Media Contest – Commemoration/Tribute, 125th Anniversary Issue

Communicator Awards

Awards of Distinction for Design Features/Overall Design for “Faster, Smarter, Lighter”

Award of Distinction for Employee Publication-Magazine for the October 2018 Issue

The ASEE Art department keeps ASEE’s branding and messaging on point through its work on branding and logos for events and meetings, on-site displays, social media campaigns, program design and layout; and marketing materials, among other products our members see, read, and interact with.

Communicators Conference

In July 2019, ASEE held its second annual Engineering Communicators Conference, convening over 100 communications professionals from colleges of engineering and engineering technology around the country. This event is the only one of its kind for communicators and, over two days, covered topics including effectively using social media, considering diversity in communications products, and dealing with the media. The community-building from this event has laid the groundwork for the creation of a new constituent committee for engineering communicators within ASEE.
ANNUAL CONFERENCE

ASEE’s showcase event and gathering place for 4,000 community members is our annual conference, held in steamy Tampa in 2019. In the “lightning capital of the world,” we were Charged Up for the Next 125 Years, noting the closing of our year-long anniversary celebration and looking forward to what is next for ASEE.

Among the highlights of the conference were:

• TWO GREAT PLENARY SPEAKERS, ONE OF WHOM ADDRESSED PROFESSIONAL-TRACK FACULTY AND THE OTHER TELLING HER STORY OF OVERCOMING OBSTACLES ON HER WAY TO BECOMING A CEO
• A WELCOME FROM TAMPA MAYOR, JANE CASTOR
• PRESENTING OUR STUDENT VIDEO-CONTEST WINNERS
• THE TASTE OF TAMPA, FEATURING A VARIETY OF LOCAL CULINARY DELIGHTS
• THE ANNUAL COMMUNITY ENGAGEMENT DIVISION OUTREACH ACTIVITY, THIS YEAR AT THE FLORIDA AQUARIUM
• NUMEROUS SOCIAL EVENTS, INCLUDING OUR POPULAR DIVISION MIXER
• CEREMONIES FOR OUR SOCIETY AWARD WINNERS AND FELLOWS
• SUNRISE YOGA AND OTHER GROUP PHYSICAL ACTIVITIES