

TABLE OF CONTENTS

<u>. </u>	OUTSTANDING ZONE CAMPUS REPRESENTATIVE AWARDS	
2	ASEE 2019 BEST PAPER AWARDS	
3	WILLIAM ELGIN WICKENDEN AWARD	
5	ROBERT G. QUINN AWARD	
6	JOHN L. IMHOFF AWARD	
<u>7</u>	DUPONT MINORITIES IN ENGINEERING AWARD	
8	SHARON KEILLOR AWARD	
9	JAMES H. MCGRAW AWARD	
10	NATIONAL ENGINEERING TECHNOLOGY TEACHING AWARD	
11	NATIONAL ENGINEERING ECONOMY TEACHING EXCELLENCE AWARD	
12	FREDERICK J. BERGER AWARD	
13	NATIONAL OUTSTANDING TEACHING AWARD	
14	ISADORE T. DAVIS AWARD	
<u>15</u>	BENJAMIN GARVER LAMME AWARD	
<u>16</u>	ASEE 2020 FELLOW MEMBER HONOREES	
<u>17</u>	LIFETIME ACHIEVEMENT AWARD	
18	ASEE SECTION AWARDS	
19	PROFESSIONAL AND TECHNICAL DIVISION AWARDS	
23	PAST NATIONAL AND SOCIETY AWARD RECIPIENTS AND FELLOW MEMBER HONOREES	

ASEE AWARDS

OUTSTANDING ZONE CAMPUS REPRESENTATIVES AWARDS

ASEE initiated this award to recognize those ASEE Campus Representatives who have achieved excellence in their roles as the Society's representative on campuses within each of the four geographic zones. The ASEE Campus Representative serves as a liaison to help determine members' interests and reactions to Society programs and publications, to stimulate interest among the faculty in section and national meetings, and to promote individual membership and involvement.

ZONE I

Ilya Y. Grinberg

Buffalo State College, The State University of New York

ZONE II

Ann D. Christy

Ohio State University

ZONE III

Sara E. Wilson

University of Kansas

ZONE IV

Paul M. Nissenson

California State Polytechnic University, Pomona

PAST WINNERS

2010	George Sutherland, John Brocato, Walter W. Buchanan, Craig Johnson	2015	Navarun Gupta, Terri M. Lynch-Caris, Byron Garry, Carolyn Labun
2011	Navarun Gupta, J. P. Mohsen, Steven Hietpas, Amir Rezaei	2016	Kanti Prasad, Cindy Waters, Walter W. Buchanan, Kevin Amende
2012	Kanti Prasad, Larry G. Richards, Walter W. Buchanan, Agnieszka Miguel	2017	Kassim Tarhini, Terri M. Lynch-Caris, Jay Wierer, Sam Spiegel
2013	Kevin Drees, David Lanning	2018	Justin Kile, Larry G. Richards, William Schell
		2019	Navarun Gupta, Jenna P. Carpenter, Winston F. Erevelles,
2014	Kanti Prasad, John W. Brocato, Matthew Kuhn		Krishna Pakala

ASEE 2019 BEST PAPER AWARDS

These awards recognize outstanding papers presented during Society year 2018-2019. One outstanding conference paper is selected from each of the four ASEE Zones. The Best Overall Zone Paper award consists of \$1,000. One outstanding conference paper is selected from each of the five ASEE Professional Interest Councils (PICs) and each receives an award of \$1,000. The Best Overall PIC Paper award consists of \$3,000. The Best Overall Diversity Paper may be nominated from any paper presented in a PIC or Zone during Society year 2018-2019.

BEST OVERALL PIC PAPER

Assessment of Project-Based Learning Courses Using Crowd Signals

GEORGIOS GEORGALIS AND KAREN MARAIS. PURDUE UNIVERSITY

BEST OVERALL ZONE PAPER

Implementation and First-Year Results of an Engineering Spatial Skills Enhancement Program

ALEX DE ROSA AND MAXINE FONTAINE, STEVENS INSTITUTE OF **TECHNOLOGY**

BEST OVERALL DIVERSITY PAPER

Work in Progress: Aligning What We Want with What We Seek: Increasing Comprehensive Review in the **Graduate Admissions Process**

LA'TONIA STINER-JONES AND WOLFGANG WINDL, OHIO STATE UNIVERSITY

BEST PIC PAPER - PIC I

Effects of Alternative Course Design and Instructional Methods in the Engineering Classroom

LINDY HAMILTON MAYLED, UNIVERSITY OF ARIZONA; LYDIA ROSS, UNIVERSITY OF ARIZONA: CASEY JANE ANKENY, NORTHWESTERN UNIVERSITY: JAY OSWALD. ARIZONA STATE UNIVERSITY

BEST PIC PAPER - PIC II

Assessment of Project-Based Learning Courses Using **Crowd Signals**

GEORGIOS GEORGALIS AND KAREN MARAIS. PURDUE UNIVERSITY

BEST PIC PAPER - PIC III

Do They Understand Your Language? Assess Their Fluency with Vector Representations

ERIC DAVISHAHL, WHATCOM COMMUNITY COLLEGE; TODD HASKELL, WESTERN WASHINGTON UNIVERSITY; JILL DAVISHAHL, WESTERN WASHINGTON UNIVERSITY; LEE SINGLETON, WHATCOM COMMUNITY COLLEGE; WADE H. GOODRIDGE, UTAH STATE

BEST PIC PAPER - PIC IV

Student Views on their Role in Society as an Engineer and Relevant Ethical Issues

ANGELA BIELEFELDT, UNIVERSITY OF COLORADO BOULDER: DAVID ZHAO: ALEXANDRA KULICH, TUFTS UNIVERSITY: MADELINE POLMEAR, UNIVERSITY OF COLORADO BOULDER; NATHAN CANNEY, CYS STRUCTURAL ENGINEERS, INC.: CHRIS SWAN. TUFTS UNIVERSITY: DANIEL KNIGHT, UNIVERSITY OF COLORADO

BEST PIC PAPER - PIC V

Mapping & Strengthening Curriculum-Based Industry/ Academia Intersections

KATHERINE MCCONNELL, UNIVERSITY OF COLORADO BOULDER,

BEST ZONE I PAPER

Implementation and First-Year Results of an Engineering Spatial Skills Enhancement Program

ALEX DE ROSA AND MAXINE FONTAINE. STEVENS INSTITUTE OF **TECHNOLOGY**

BEST ZONE II PAPER

Research to Practice: Leveraging Concept Inventories in Statics Instruction

RUTH WERTZ, VALPARAISO UNIVERSITY, AND THERESA GREEN, UTAH STATE UNIVERSITY

BEST ZONE III PAPER

Blended Learning: Electrical Circuits for Non-EE Students

THERESA SWIFT AND AMARDEEP KAUR, MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY

BEST ZONE IV PAPER

Assessing Student Assessment in a Flipped Classroom

BRYAN J. MEALY. CALIFORNIA STATE POLYTECHNIC UNIVERSITY. SAN LUIS OBISPO

ASEE AWARDS

WILLIAM ELGIN WICKENDEN AWARD

This award, sponsored by the Journal of Engineering Education editorial review board, recognizes the author(s) of the best paper published in ASEE's scholarly research journal during the previous January-to-October publication period. It is named in honor of the distinguished engineer, educator, philosopher, administrator, and humanitarian who throughout his career devoted himself to the personal and professional development of younger members of the engineering fraternity. His wisdom and leadership so infused the monumental "Report of the Investigation of Engineering Education, 1923–1929" that it has been popularly referred to as the Wickenden Report ever since. His publication The Second Mile has helped thousands of young engineers form a sound conception of engineering as a career. Awardees receive a commemorative plaque.

Paper: Beyond Pipeline and Pathways: Ecosystem Metrics

Authors: Susan Lord, University of San Diego; Matthew Ohland, Purdue University; Richard Layton, Rose-Hulman Institute of Technology; and Michelle Camacho, University of San Diego



SUSAN LORD Professor and Chair of Engineering, and Professor of Electrical Engineering University of San Diego



MATTHEW OHLAND Professor and Associate Head of **Engineering Education** Purdue University

Susan M. Lord is professor and chair of integrated engineering at the University of San Diego. She earned a B.S. with distinction from Cornell University in materials science and electrical engineering and M.S. and Ph.D. degrees in electrical engineering from Stanford University. She codirects the National Effective Teaching Institute (NETI) with Matt Ohland and Michael Prince. Her research focuses on the study and promotion of diversity in engineering, including student pathways and inclusive teaching. Her research has been sponsored by the National Science Foundation. Lord was among the first to study Latinos in engineering and coauthored The Borderlands of Education: Latinas in Engineering with Michelle Camacho, A Fellow of the IEEE and ASEE, she is active in the engineering education community, including serving as general cochair of the Frontiers in Education Conference, president of the IEEE Education Society, and associate editor of the IEEE Transactions on Education (ToE) and the Journal of Engineering Education (JEE). She and her coauthors received the 2011 and 2019 Wickenden Awards for the best paper in JEE and the 2011 and 2015 Best Paper Awards for the IEEE ToE. In Spring 2012, Lord spent a sabbatical at Southeast University in Nanjing, China, teaching and doing research. She is on the USD team implementing "Developing Changemaking Engineers," an NSF-sponsored Revolutionizing Engineering Education (RED) project. She is the 2018 recipient of the IEEE Undergraduate Teaching Award for "contributions to the development of more inclusive and innovative undergraduate teaching in electrical and computer engineering."

Matthew Ohland is professor and associate head of engineering education at Purdue University. He earned a Ph.D. in civil engineering from the University of Florida, M.S. degrees in materials engineering and mechanical engineering from Rensselaer Polytechnic Institute, and a B.S. in engineering and B.A. in religion from Swarthmore College. He codirects the National Effective Teaching Institute (NETI) with Susan Lord and Michael Prince. His research has been funded by over \$20 million, mostly from the National Science Foundation. Along with his collaborators, he has been recognized for his work on longitudinal studies of engineering students with the William Elain Wickenden Award for the best paper published in the Journal of Engineering Education in 2008 and 2011. He has also been recognized for the best paper in IEEE Transactions on Education in 2011 and 2015, multiple conference Best Paper awards, and the Betty Vetter Award for Research from the Women in Engineering Proactive Network. The CATME Team Tools developed under Ohland's leadership and related research have been used by over 1.46 million students of more than 20,000 faculty at more than 240 institutions in 87 countries. The tools were recognized with the 2009 Premier Award for Excellence in Engineering Education Courseware and the Maryellen Weimer Scholarly Work on Teaching and Learning Award in 2013. Ohland received the Chester F. Carlson Award for Innovation in Engineering Education from the American Society for Engineering Education (ASEE) for his leadership of that project. He is a Fellow of ASEE, IEEE, and AAAS. He has received teaching awards at Clemson and Purdue. An ABET Program Evaluator and an associate editor of IEEE Transactions on Education, he was the 2002-2006 President of Tau Beta Pi.

WILLIAM ELGIN WICKENDEN AWARD



RICHARD LAYTON
Professor of Mechanical Engineering
Rose-Hulman Institute of Technology

Richard A. Layton is professor emeritus of mechanical engineering at Rose-Hulman Institute of Technology. He retired from teaching in May 2020, having taught at Rose-Hulman for 20 years. For the past dozen years, he has collaborated with Matthew Ohland, Susan Lord, Michelle Camacho, and others in research using the MIDFIELD database to study undergraduate engineering students. His focus in this work has been creating graphics to explore data and present findings. He led the software development of two R packages, "midfieldr" and "midfielddata," that provide open-source tools, a practice dataset, and tutorials specialized for this type of longitudinal research (https://midfieldr.aithub.io/midfieldr/). In the MIDFIELD Institute (https://midfieldr.github.io/workshops/) Layton leads the "learn R" portions of the workshop. His interests in communication extend beyond data graphics; with Richard House, Jessica Livingston, and Sean Moseley, he is co-author of The Engineering Communication Manual (2017, Oxford Univ. Press). With Ohland and others, he helped develop the CATME SMARTER Teamwork system for preparing students to function effectively in teams and supporting faculty as they manage their students' team experiences. At Rose-Hulman, he is a past director of the Center for Practice and Scholarship of Education. He earned his Ph.D. (1995) and M.S.M.E (1993) at the University of Washington. A native Californian, he earned the B.S.E. (1991) at California State University, Northridge. He is a guitar player and songwriter. Before the pandemic, he could be found every now and then at a local open mic. For the present, online offerings will have to do (https://soundcloud. com/richardlaytonmusic/). On retiring, he plans to spend more time songwriting and data visualization consulting (https://www. graphdoctor.com/).



MICHELLE CAMACHO
Deputy Division Director (Acting),
Division of Human Resources &
Development
National Science Foundation

Michelle M. Camacho is currently the acting deputy division director in the National Science Foundation's Division of Human Resource Development and was the program director in the Division of Undergraduate Education. She joined NSF as a visiting scientist and engineering educator from the University of San Diego. Her research examines student persistence and success in STEM education, institutional transformation, and faculty development. A bilingual/bicultural Latina educator, Camacho brings over 30 years of experience in higher education advocating for access and equity in higher education for underrepresented groups and first-generation college

ROBERT G. QUINN AWARD

The Robert G. Quinn Award recognizes outstanding contributions in experimentation and laboratory instruction. It is named for the legendary professor of electrical and computer engineering who established Drexel University's highly successful and innovative engineering curriculum. Quinn served on the National Advisory Panel for the Space Shuttle, as a consultant to NASA's manned space missions, and as an adviser to government agencies, business, and industry. His research at Drexel focused on undergraduate curriculum development, including directing a major experiment funded by the National Science Foundation known as E4, or "An Enhanced Educational Experience for Engineering Students." This highly successful program evolved into the Drexel engineering curriculum, and many of its key features were emulated internationally in dozens of universities. The award consists of a \$5,000 honorarium and an inscribed plaque.

Tony Butterfield is a quintessential teacher who has made—and continues to make—a difference in the lives of hundreds of students. He has revolutionized the field of experimental chemical engineering instruction by effectively using a course that he created on innovation and design. The course is taught in a laboratory that he designed and equipped. His experiential teaching methods and learning assessments are truly pioneering. His rigorous, compassionate, student-centric approach makes him one of the best in our profession.



ANTHONY BUTTERFIELD
Associate Professor (Lecturer)
Department of Chemical Engineering
University of Utah

FIELD arer) angineering

Nominated by Milind D. Deo, University of Utah

Anthony (Tony) Butterfield is an associate professor (lecturer) in the department of chemical engineering at the University of Utah, where he has been on the faculty for 10 years. His primary research areas involve engineering education, contributing in particular to the areas of projectbased learning for first-year engineering students and the use of maker spaces within the chemical engineering curriculum. His work also concentrates on K-12 outreach and citizen-scientist efforts for engineers, focusing on distributed sensing networks for assessing community air quality. He is his department's adviser for the AIChE Student Chapter, K-12 Outreach Team, Chem-E Car chapter, and oSTEM

chapter.
For his outreach work and engineering education research, Butterfield received the 2017 Award for Innovation in Chemical Engineering Education from the American Institute of Chemical Engineers; the GLBT Educator of the Year Award; and the Beacon of Excellence and Distinguished Lecturer awards from the University of Utah.

Butterfield is the founding faculty adviser for the University of Utah's oSTEM group. In this capacity, he has brought STEM-specific safe zone training to his university and conducted college outreach to Salt Lake City's LGBTQ community. He also has provided a forum through which LGBTQ+ students may open a dialogue with faculty and decision makers in his college. Butterfield recently celebrated both his 25th anniversary with his husband and the graduation of their twin sons.

JOHN L. IMHOFF AWARD

This award recognizes an individual who has made outstanding contributions in the field of industrial engineering education and demonstrated global cooperation and understanding through leadership and other initiatives. An engineering educator for more than 50 years, John L. Imhoff thrived on the global impact potential of the industrial engineering discipline. His vision encompassed the undergraduate, graduate, and teaching levels. He believed that global sharing through educational channels would lead to greater cooperation and understanding. He was very committed to students within the classroom and was passionate about professional student organizations as well as faculty involvement within those organizations. He encouraged students to travel abroad on work/study programs and to take summer jobs abroad, and he encouraged faculty to bring in speakers who had worked abroad to share their experiences.

Rupy Sawhney is an established expert in operational excellence. He founded a global operational excellence summer program for undergraduates that has attracted nearly 900 students from 10 countries over nine years. His group hosts international visiting faculty and students to contribute towards common research goals. His institutional partnerships include 20 collaborative agreements with universities worldwide. This has resulted in speaker invitations, publications, conference partnerships, course development, and sponsored research. These initiatives highlight his vision for transformative global partnerships based on cultural interchange.



RAPINDER SAWHNEY

Distinguished Professor and Heath Fellow in **Business and Engineering** Department of Industrial and Systems University of Tennessee at Knoxville

Nominated by John A. Kobza, University of Tennessee at Knoxville

Rapinder (Rupy) Sawhney is a distinguished professor and Heath Fellow in business and engineering at the department of industrial and systems engineering at the University of Tennessee at Knoxville and the founder of Sawhney Solutions. As the executive director of the Center for Advanced Systems Research and Education (CASRE), he leads a team of nearly 30 staff and graduate students. His Sawhney Model, which uniquely focuses on people-centered operational excellence strategies, is the basis of transformational projects and training programs for leading industry and federal partners, including the Department of Energy, Covenant Health, and Clayton Homes. Overall, Sawhney and his team have partnered with over 200 companies on operational excellence projects. He has established innovative educational and training programs with national

and international visibility, including an on-site cohort program (2011– present) that has graduated over 100 professionals with master's degrees, and the Lean Enterprise Systems Program (LESP; 2011-present), which has araduated over 900 students from 10 countries. These efforts have resulted in strong international collaborations with nearly 20 universities worldwide. Sawhney has been recognized with various awards, such as the Boeing Welliver Faculty Fellowship, Alcoa Faculty Award, Institute of Industrial Engineers' Lean Teaching Award, Industrial and Operations Management Society's Outstanding Educator Award, and the 2019 University of Tennessee President's Award as the "Educate"

IVAN FAVILA Engineering Program

> Nominated by Jonathan J. Makela, University of Illinois at Urbana-Champaign

ASEE AWARDS

DUPONT MINORITIES IN ENGINEERING AWARD

The DuPont Minorities in Engineering Award honors an engineering educator for exceptional achievement in increasing the participation and retention of minorities and women in engineering. The award consists of a \$1,500 honorarium, a framed certificate, and a grant of \$500 for travel expenses to attend the ASEE Annual Conference. Endowed by the DuPont company, this award is intended to recognize the importance of student diversity by ethnicity and gender in science, engineering, and technology.

This award is bestowed for the indelible positive impact that Ivan Favila has made in the experience and success of diverse undergraduate students in the Grainger College of Engineering at the University of Illinois at Urbana-Champaign through developing multiple programs; continually working to increase student diversity, access, and success within engineering; and being an active and engaged mentor and adviser to undergraduates.

Ivan Favila is an assistant dean in

the Grainger College of Engineering

at the University of Illinois at Urbana-

Champaign, where he is the director of

the Morrill Engineering Program (MEP),

Engineering, and the Academic Redshirt

the Center for Academic Resources in

in Science and Engineering program.

recruitment activities in the college's

His work supports underrepresented

and underserved students pursuing

engineering. Since 2008, minority

retention initiatives and proactive

recruitment strategies. In addition,

Favila serves on several campus

student retention and increasing

diversity and inclusion.

engineering degrees while increasing the number of minority students studying

enrollment in engineering has increased

by over 100 percent through structured

committees working toward improving

As assistant dean, he contributes

to student-centered retention and

Undergraduate Programs Office.



Assistant Dean and Director of the Morrill University of Illinois at Urbana-Champaign

A native of Mexico City, raised in Chicago, Ill., Favila earned a B.S. in general engineering from the University of Illinois at Urbana-Champaign, where he helped pay for his college expenses by working part-time as a laboratory assistant with the Engineering Graphics

and Design Laboratory. He then worked as a management consultant in Chicago while promoting his interests in increasing the number of minority youths pursuing engineering. Through these efforts, he taught and coordinated engineering classes for the Center for the Advancement of Hispanics in Science and Engineering Education (CAHSEE) in Washington, D.C., New York City, and Chicago. He subsequently worked at the University of Illinois at Chicago, where he earned an M.S. in mechanical engineering. Before working at the Urbana campus, he directed programs at the University of Notre Dame.

On every campus, he has advised the student chapters of the American Indian Science and Engineering Society (AISES), National Society of Black Engineers (NSBE), and Society of Hispanic Professional Engineers (SHPE). To his students and protégés, he is known to go the extra mile to promote academic, personal, and professional leadership as well as service.

SHARON KEILLOR AWARD

The Sharon Keillor Award for Women in Engineering Education recognizes and honors outstanding women engineering educators. The award consists of a \$2,000 honorarium and an inscribed plague. Keillor was an engineering educator and a technology industry executive with extensive experience and accomplishments. An Athlone Fellow at the Imperial College of the University of London, she also served as a faculty member at the Memorial University of Newfoundland, the University of Western Ontario, and the University of Massachusetts at Amherst. Afterward, she embarked upon an outstanding career in industry, which included serving as the Digital Equipment Corporation's head of corporate training and later as vice president for software engineering; senior vice president of CTA Incorporated; senior vice president and chief operating officer of Watkins-Johnson; vice president of Raytheon Marine; and managing director of its operations in Portsmouth, England.

Sarah Rajala is recognized for her outstanding leadership, innovations in engineering education and assessment, and tireless efforts to promote diversity in engineering. As a leader in global engineering education, her work is culminating in impressive coordination across engineering societies around the world. Her efforts have led to more inclusive and innovative engineering colleges, professional organizations, and communities, and her leadership of multiple engineering education-related societies such as ASEE, ABET, and the Global Engineering Dean's Council, of which she was a founding member, have allowed her to play an unprecedented role in shaping the engineering education landscape nationally as well as globally,



SARAH A. RAJALA College of Engineering Iowa State University

Nominated by Kristen P. Constant, Iowa State University of Science and Technology

Sarah Rajala served as the 12th dean of the College of Engineering at Iowa State University from 2013 to 2019. She led the largest college on campus and was responsible for more than 9,500 students, 500 faculty and staff, 12 academic majors, multiple research centers and programs, and 11 buildings that comprise the engineering complex. Her previous leadership positions were at Mississippi State University as dean of engineering from 2008 to 2013 and chair of the electrical and computer engineering department prior to being named dean. Rajala also served at North Carolina State University as associate dean for research and graduate programs and associate dean for academic affairs in the college of engineering. She had a distinguished career as a professor and center director prior to moving into administrative positions.

Rajala is an internationally known leader who has served on many academic and association boards. She has consistently broken new ground for women in engineering, served as a role model for young women, and remained passionate about diversity of thought and culture. Rajala is a past president of the American Society for Engineering

Education; past chair of the Global Engineering Deans Council; and chair of the ABET Engineering Commission. In 2017 she received the IEEE Award for Meritorious Achievement in Accreditation Activities; the National Engineering Award from the American Association of Engineering Societies in 2016; and the IEEE Harriett B. Rigas Award in 2015. She is a fellow of the AAAS, ABET, ASEE, and IEEE. Rajala earned her bachelor's degree in electrical engineering from Michigan Technological University and master's and Ph.D. degrees from Rice

KEN RENNELS Associate Professor Emeritus Purdue School of Engineering and Technology Indiana University-Purdue University

Indianapolis

Nominated by Patricia Fox, Indiana University-Purdue University Indianapolis

JAMES H. MCGRAW AWARD

The James H. McGraw Award is presented for outstanding contributions to engineering technology education. Established by the McGraw-Hill Book Company in 1950, the award is now cosponsored by McGraw-Hill Higher Education, the ASEE Engineering Technology Council, and the ASEE Engineering Technology Division. The award consists of a \$1,000 honorarium and a certificate. McGraw, considered the dean of industrial publishers, entered the business as a teacher-turned-subscription-salesman. Over the next 40 years, he laid the foundation of one of the largest industrial publishing organizations in the world.

Ken Rennels is recognized for excellence and dedication to teaching, administration, and outreach as well as for his service to engineering technology as a volunteer to professional societies and community groups. His exemplary engineering technology career includes a successful tenure in industry before becoming a highly respected teacher, valued administrator, and outstanding leader who remains dedicated to his professional societies and the community.



Ken Rennels, P.E., is an associate professor emeritus in the Purdue School of Engineering and Technology, Indiana University-Purdue University Indianapolis (IUPUI). For 30 years, until his retirement, he taught courses in industrial, mechanical, and manufacturing engineering technology as well as facilities management. During his tenure at IUPUI, Rennels held administrative appointments including chair of the department of mechanical engineering technology, associate dean for industry relations, associate dean for undergraduate programs, and director of the facilities management graduate program. He was actively engaged in translational research activities, including holding an appointment with the VA's Veterans Engineering Resource Center (VERC) as a systems engineer, Lean Sensei, and lead instructor for Black Belt Lean Six-Sigma courses.

Nationally, Rennels is an ABET/ ETAC commissioner and has served on the ABET Board of Directors as the representative of SAE, International. He is an ETAC program evaluator for general, automotive, and manufacturing engineering technology programs. Rennels has served as the treasurer for

the Engineering Technology Division of ASEE; as a member of the Engineering Technology Leadership Institute (ETLI) Executive Committee, serving as chair in 2002-2003; and the 2006 and 2014 Conference for Industry and Education (CIEC) general conference chair. He has served a member of the Tau Alpha Pi Board of Directors and was the recipient of the 2012 Frederick J. Berger Award.

Rennels is a member of the American Society for Engineering Education (ASEE) the Society of Automotive Engineers (SAE), the Society of Manufacturing Engineers (SME), and the International Facility Management Association (IFMA) He is a registered professional engineer in Indiana.

After graduating from Purdue University with a degree in industrial engineering, Rennels spent 11 years in the aerospace industry, holding positions that included senior manufacturing engineer, general supervisor, project manager, and plant manager for the Bendix Corporation and Precision Rings. His graduate degrees are in industrial engineering from Purdue University and business administration from Indiana University.

NATIONAL ENGINEERING TECHNOLOGY TEACHING AWARD

The National Engineering Technology Teaching Award recognizes individual achievement in innovative teaching in engineering technology and/or applied engineering education, contributions to the scholarship of teaching, and participation in and service to engineering technology education at the regional and national levels. The award was established to identify and recognize those who are among the nation's most influential educators in the study of applied engineering and/or engineering technology education. The goal is to award individuals whose insatiable love of teaching and learning has led them to strive above and beyond that which is expected of faculty to create learning environments that motivate students to reach outside their imagination and enable students to develop creative solutions to engineering problems in ways that make our world a better place.

Michael Johnson has made significant contributions to engineering technology education in ETID and to the wider community through his research and service activities. Johnson is a well-regarded educator and researcher who has developed courses and activities to enhance education and educational opportunities in engineering and engineering technology.



MICHAEL D. JOHNSON Professor Department of Engineering Technology and Industrial Distribution Texas A&M

Michael D. Johnson is a professor in the department of engineering technology and industrial distribution at Texas A&M University. He also serves as the associate department head for undergraduate studies. Prior to joining the faculty at Texas A&M, he was a senior product development engineer at the 3M Corporate Research Laboratory in St. Paul, Minn. He received his B.S. in mechanical engineering from Michigan State University and S.M. and Ph.D. from the Massachusetts Institute of Technology. His research focuses on engineering education, production economics, and design tools. Johnson has over 80 peer-reviewed publications and several patents. His research has been funded by the National Science Foundation, the Department of Energy, and industry.

Johnson is a member of the American Society for Engineering Education. the American Society of Mechanical Engineers, and SME, and he is a senior member of IEEE. He served as the president of the Tau Alpha Pi Engineerina Technology Honor Society national board from 2014 to 2018. He currently chairs the Mechanical Engineering Technology Leadership Committee and is also a member of the Engineering Technology Accreditation Commission of ABET.

Nominated by Reza Langari, Texas A&M University

ASEE AWARDS

NATIONAL ENGINEERING ECONOMY TEACHING EXCELLENCE AWARD

The National Engineering Economy Teaching Excellence Award recognizes an individual who has demonstrated classroom teaching excellence and teaching scholarship in engineering economy. The award, presented biennially, consists of a \$10,000 honorarium, an inscribed plaque, and a \$1,000 stipend to assist the award recipient in travel costs to attend the ASEE annual conference.

Wolter J. Fabrycky made engineering economy his engineering education foundation for more than a half-century. After receiving his engineering doctorate in 1962, he nurtured this core subject into required status for all engineering students using an effective general lecture/recitation pedagogy, teaching over 1,000 sophomores each year. He then expanded his honors teaching, graduate instruction, and research, and seamlessly integrated engineering economics through the interdisciplinary field of systems engineering. His retirement in 1999 made global collaboration increasingly possible, enabled through a unique web-based portal. Fabrycky continues to be a tireless mentor and advocate for economic and systems thinking within the profession of engineering.



WOLTER FABRYCKY Lawrence Professor Emeritus of Industrial and Systems Engineering at Virginia Tech Chairman, Academic Applications International, Inc.

Nominated by Scott F. Midkiff, Virginia Polytechnic Institute and State University

Wolt Fabrycky is Lawrence Professor Emeritus of Industrial and Systems Engineering at Virginia Tech and chairman of Academic Applications International, Inc. (www.a2i2.com). A registered Professional Engineer in Arkansas (1960) and Virginia (1965), he received his Ph.D. in engineering from Oklahoma State University in 1962; M.S. in industrial engineering from the University of Arkansas in 1958; and B.S. in industrial engineering from Wichita State University in 1957. Before joining the Virginia Tech faculty in 1965, where he was the founding chair of systems engineering and served as associate dean of engineering and then as university dean of research for over 12 years, he taught at Arkansas and Oklahoma State. Honors include the Lohmann Medal from Oklahoma State for Outstanding Contributions to ISE Education and Research (1992) and the Armitage Medal for Outstanding Contributions to Logistics Engineering Literature (2004). He also has been recognized with the Holtzman Distinguished Educator Award from the Institute of Industrial Engineers (1990), the Grant (1994) and Wellington (2004) awards from the American Society for

Engineering Education, and the Pioneer Award from the International Council on Systems Engineering (2000). Fabrycky was founder (2005) and president of the Omega Alpha Association, the international systems engineering honor society, and president of Alpha Pi Mu, the industrial engineering honor society (2010–12). He was elected to the rank of Fellow in the American Association for the Advancement of Science (1980), the American Society for Engineering Education (2007), the Institute of Industrial Engineers (1978), and the International Council on Systems Engineering (1999). Listed in Who's Who in Engineering and Who's Who in America for many decades, he has served or is serving on the Boards of ABET, APM, ASEE, IIE, INCOSE, and OAA. The co-author of six Prentice Hall textbooks that have appeared as twodozen revisions and translations since 1964, Fabrycky has served as editor of the Pearson Prentice Hall International Series in Industrial and Systems Engineering since 1974.

FREDERICK J. BERGER AWARD

Established in 1990 by the late Frederick J. Berger, this award recognizes and encourages excellence in engineering technology education. It is presented to both an individual and a school or department for demonstrating outstanding leadership in curriculum, techniques, or administration in engineering technology education. The individual receives a \$500 honorarium and a bronze medallion; the institution receives a \$500 honorarium and an inscribed plaque.

Berger drew acclaim for his many noteworthy contributions as an engineering technology educator. These include his service for many years at the City University of New York and as the founder of Tau Alpha Pi, the professional honor society for the engineering technologies.

Michael Johnson is recognized for making significant contributions to the department of engineering technology and industrial distribution (ETID) and the wider university community through his service activities as well as to the engineering technology community through his national service activities. A highly regarded educator who has developed courses and activities to enhance the student educational experience in ETID, he is also a productive researcher, publishing over 70 peer-reviewed journal and conference papers and securing over \$3 million in extramural research funding.



MICHAEL D. JOHNSON
Professor
Department of Engineering Technology and Industrial Distribution
Texas A&M

Nominated by Walter W. Buchanan, Texas

Michael D. Johnson is a professor in the department of engineering technology and industrial distribution at Texas A&M University. He also serves as the associate department head for undergraduate studies. Prior to joining the faculty at Texas A&M, he was a senior product development engineer at the 3M Corporate Research Laboratory in St. Paul, Minn. He received his B.S. in mechanical engineering from Michigan State University and his S.M. and Ph.D. from the Massachusetts Institute of Technology. Johnson's research focuses on engineering education, production economics, and design tools. He has over 80 peer-reviewed publications and several patents. His research has been funded by the National Science Foundation, the Department of Energy and industry.

Johnson is a member of the American Society for Engineering Education, the American Society of Mechanical Engineers, and SME, and he is a senior member of IEEE. He served as the president of the Tau Alpha Pi Engineering Technology Honor Society national board from 2014 to 2018. He currently chairs the Mechanical Engineering Technology Leadership Committee. He is also a member of the Engineering Technology Accreditation Commission of ABET.

ASEE AWARDS

NATIONAL OUTSTANDING TEACHING AWARD

The National Outstanding Teaching Award recognizes an engineering or engineering technology educator for excellence in outstanding classroom performance, contributions to the scholarship of teaching, and participation in ASEE Section meetings and local activities. As an organization, ASEE is committed to the support of faculty scholarship and systems that develop pedagogical expertise. The award, established in 2003 by contributions from ASEE Sections, members, and industrial partners, consists of an engraved medallion, certificate, and complimentary registration for the ASEE Annual Conference.

Brock E. Barry is an inspirational educator and leader who fosters a cohesive learning environment founded on communication and respect at all levels. He personifies the Army Values with indisputable loyalty and dedication to the mission of the United States Military Academy. He is highly dedicated to educating and inspiring cadets in and out of the classroom, as evidenced by his personal sacrifice and boundless commitment.



BROCK E. BARRY

Professor of Engineering Education in the
Department of Civil & Mechanical Engineering
United States Military Academy, West Point

Nominated by Joseph P. Hanus, United States Military Academy

Brock E. Barry is a professor of engineering education in the department of civil and mechanical engineering at the United States Military Academy, West Point, where he has been part of the faculty for the past 11 years. Barry holds a B.S. degree from Rochester Institute of Technology, an M.S.degree from the University of Colorado Boulder, and a Ph.D. in engineering education from Purdue University. Prior to pursuing a career in academics, Barry spent 10 years as a senior geotechnical engineer and project manager on projects throughout the United States. He is a licensed Professional Engineer.

Barry's areas of research include assessment of professional ethics, teaching and learning in engineering education, nonverbal communication in the classroom, and learning through historical engineering accomplishments. He has authored and coauthored a significant number of publications on these topics. Barry recently completed the seven-year commitment in the leadership track for the Civil Engineering Division of ASEE. He is a past recipient of that division's Gerald R. Seeley Award. He also was recognized with ASEE's Mid-Atlantic Section Outstanding Campus Representative Award and the MidAtlantic Section Distinguished Teaching Award. He has served on multiple national committees for the American Society of Civil Engineers (ASCE) and is currently the chair of ASCE's Task Committee on the Code of Ethics.

Barry's passion is teaching the Army's future engineers. An inspirational leader who fosters a cohesive environment founded on communication and respect at all levels, he personifies the Army Values with indisputable loyalty and dedication to the mission of the United States Military Academy. He is highly dedicated to educating and inspiring cadets in and out of the classroom.

Barry and his wife, Allison, celebrated their 19th wedding anniversary this past summer. They have two sons, Colton and Elijah. The family is very active in sports, Scouts, and outdoor activities.

A&M University

ISADORE T. DAVIS AWARD

The Isadore T. Davis Award for Excellence in Collaboration of Engineering Education and Industry was jointly established and endowed by ASEE's Corporate Member Council, Engineering Deans Council, Engineering Technology Council, Engineering Research Council, and College-Industry Partnership Division.

The award celebrates the spirit and leadership of individuals who make a mark in improving partnerships or collaborations between engineering or engineering technology education and industry. The award is intended to promote collaborations and partnerships between engineering or engineering technology education and industry to improve learning, scholarship, and engagement practices within the engineering education community.

Scott Danielson has continuously worked with industry throughout his career to improve engineering and engineering technology education and to achieve workforce-ready employees for industry. His career includes numerous examples of teaming up with industry to achieve a desired benefit for both parties. His collaborative work has been nationally recognized and has an international reach. During his tenures at North Dakota State University and Arizona State University, Danielson has continually worked with industry so that engineering and engineering technology students would have the most current and up-to-date knowledge about their technical fields. His work over the years can be used as a benchmark for faculty who are looking for ways to collaborate with industry.



SCOTT DANIELSON

Associate Professor Polytechnic School of the Ira A. Fulton School of Engineering Arizona State University

Nominated by Patricia Fox, Indiana University-Purdue University Indianapolis Scott Danielson, P.E., is a faculty member in the Polytechnic School of the Ira A. Fulton Schools of Engineering at Arizona State University (ASU). Before returning to the faculty, he was an associate dean for almost four years in the Ira A. Fulton Schools of Engineering and the College of Technology and Innovation. Before assuming those roles, he had been an engineering technology department chair at ASU for over 13 years.

He has been active in ASEE, serving as chair of both the Mechanics Division and the Engineering Technology Division. Within ASME, he served as a member and co-editor of the Vision 2030 Task Force, which highlighted input and a significant data set related to industry supervisors' view of early career mechanical engineers. This industry input led to the formation of a series of recommendations to improve mechanical engineering education. He was awarded the ASME Ben C. Sparks Medal in 2009 and 2013 (team award) for excellence in mechanical engineering education. His service with ABET includes being an evaluator for two societies and serving as an Engineering Technology Accreditation Commission member and

officer, becoming chair in July 2020. He has served two short terms on the ABET Board of Directors.

He and an ASU colleague worked to create the iProjects program within the College of Technology and Innovation. The iProjects program focused on industry-sponsored projects, with industry contributing significant funds for a multidisciplinary student team working on two-semester projects. The iProjects program was included in the National Academy of Engineering's Infusing Real World Experiences into Engineering Education (2012).

He is co-principal investigator of ASU's Building University-Industry Learning and Development through Innovation and Technology (BUILD-IT) alliance, which spans from 2016 to 2022 and is related to implementing quality systems, project-based curriculum, and the maker innovation network in Vietnam.

BENJAMIN GARVER LAMME AWARD

Established in 1928, the Benjamin Garver Lamme Award recognizes excellence in teaching, contributions to research and technical literature, and achievements that advance the profession of engineering college administration. The award consists of a gold-filled medal and a framed certificate.

Benjamin Garver Lamme (1864–1924) spent most of his life working for the Westinghouse Electric Company as an inventor and a developer of electrical machinery. He pioneered the design of rotary converters, developed direct current railway motors, and produced the first commercially successful induction motor. His keen interest in the training of young engineers resulted in the development of a design school at Westinghouse. A further result of his interest was the endowment of the Benjamin Garver Lamme Award, which is given to encourage good technical teaching in order to advance the engineering profession.

Jennifer Sinclair Curtis is recognized for exceptional contributions to engineering education and the profession through world-class research in particulate modeling that is integral to scientific advances in multiphase flow simulation; for exemplary leadership in the administration of engineering programs to increase the strength and subsequent recognition of the institutions and student success; for the research and professional mentorship of students and faculty, particularly those of underserved groups; and for superb dedication to the overall education of our students.



JENNIFER SINCLAIR CURTIS Dean

Distinguished Professor of Chemical Engineering University of California, Davis

Nominated by Nicholas A. Peppas, University of Texas at Austin

Jennifer Sinclair Curtis is dean of engineering and distinguished professor of chemical engineering at the University of California, Davis, Her research focuses on the development and validation of particle flow models which have been extensively adopted by both commercial and open-source CFD software packages. She was the first to partner with ANSYS Fluent to greatly expand the multiphase simulation capability of the code, which is used by 96 of the 100 biggest industrial companies in the world, with over 40,000 customers. She is a Fellow of ASEE, the American Institute of Chemical Engineers (AIChE). and the American Association for the Advancement of Science (AAAS). She is the recipient of AIChE's Particle Technology Forum's Lifetime Achievement Award, a Fulbright Senior Research Scholar Award, AIChE's Shell Thomas Baron Award in Fluid-Particle Systems, ASEE's Chemical Engineering Lectureship Award, ASEE's Thomas and Donna Edgar CACHE Award for Excellence in Computing in Chemical Engineering Education, ASEE's Sharon Keillor Award for Women in Engineering, the William R. Jones Outstanding Mentor Award from the McKnight Doctoral Fellowship Program, and the NSF Presidential Young

Investigator Award. She also received the Van Antwerpen Award—the highest award for service to the institute by the AIChE Board of Directors. She received her Ph.D. in chemical engineering from Princeton University and her B.S. in chemical engineering from Purdue University, which recently recognized her as a distinguished engineering alumna. She currently serves as cochair of the National Academies' Board on Chemical Sciences and Technology and as chairelect of the Engineering Section of AAAS.

ASEE 2020 FELLOW

MEMBER HONOREES

The Fellow grade of membership is conferred in recognition of outstanding contributions to engineering or engineering technology education upon an active member of ASEE who has been a member in any grade for at least 10 years.

The ASEE bylaws direct that each year the Fellow Member Committee recommend candidates to be advanced to the Fellow grade of membership. The following members meet the requirements of such membership and have been approved by the ASEE Awards Policy Committee.



MAURA BORREGO Professor, Walker Department of Mechanical Engineering Cockrell School of Engineering, University of Texas at Austin Nominated by Larry G. Richards, University of Virginia



Nominated by Lance C. Perez, University of

AGNIESZKA MIGUEL

University Indianapolis



KEN BURBANK Professor and Head School of Engineering Technology, Purdue University-Purdue Polytechnic Institute Nominated by Ronald E. Land, Pennsylvania State University, New Kensington



16

JANET CALLAHAN **Professor and Dean** College of Engineering, Michigan Technological University Nominated by Kim LaScola Needy, University of Arkansas

MONICA E. CARDELLA











Professor and Department Head College of Engineering and Applied Science, University of Cincinnati



Associate Professor and Department Chair Electrical and Computer Engineering, Seattle Nominated by Charles McIntyre, Indiana University-Purdue



JOE TRANQUILLO Professor of Biomedical and Electrical Engineering, Director of the Teaching & Learning Center Bucknell University Nominated by Judy L. Cezeaux, Arkansas Tech University



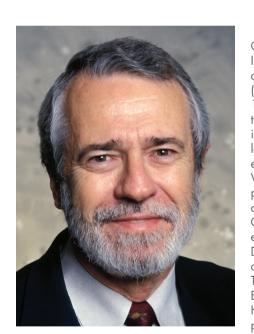
MARGOT A. VIGEANT Professor of Chemical Engineering Bucknell University Nominated by Timothy M. Raymond, Bucknell University



LIFETIME ACHIEVEMENT AWARD

The ASEE Lifetime Achievement Award recognizes individuals who have retired or who are near the end of their professional careers for sustained contributions to education in the fields of engineering and/or engineering technology. The contributions may be in teaching, education, research, administration, educational programs, professional service, or any combination thereof.

For contributions to engineering education through leadership in academic administration and service to ASEE and the National Academy of Engineering. Giddens led in creating the Georgia Tech-Emory Biomedical Engineering Department, integrating learning scientists with engineering faculty to develop a curriculum that was awarded the NAE Gordon Prize for "Innovation in Engineering and Technology Education." While dean of the largest U.S. engineering college, he served as chair of the ASEE Engineering Deans Council and as ASEE President, also chairing an NAE project that produced the report "Changing the Conversation," which became a roadmap for new approaches to attract diverse students into engineering.



DON P. GIDDENS Dean Emeritus Georgia Institute of Technology

Nominated by Richard K. Miller, Franklin W. Olin College of Engineering

Don P. Giddens is dean emeritus of the College of Engineering at the Georgia Institute of Technology. He received degrees in gerospace engineering (BAE 1963, MSAE 1965, and Ph.D. 1966) from Georgia Tech and joined the Tech faculty in 1968 after two years in the aerospace industry. In 1992 he left his position as chair of aerospace engineering to serve as dean of the Whiting School of Engineering and professor of mechanical engineering at Johns Hopkins University. In 1997, Giddens rejoined Georgia Tech to establish the Wallace H. Coulter Department of Biomedical Engineering, a joint department between Georgia Tech's College of Engineering and Emory University's School of Medicine. He served as the founding chair and professor until July 2002, when he became the dean of the College of Engineering. He formally retired on July 1, 2011, but continues his research in cardiovascular biomechanics as a consultant. Giddens is a member of the National Academy of Engineering (NAE) and a past chair of NAE Section 2, Bioengineering. He is a past president of the American Society for Engineering Education (ASEE) and a Fellow of ASEE, the Biomedical Engineering Society,

the American Heart Association, the American Society of Mechanical Engineers, and the American Association for the Advancement of Science, and a founding Fellow of the American Institute for Medical and Biological Engineering. He received the H.R. Lissner Award from ASME in 1993 and was the ASME Thurston Lecturer in 1996. Giddens has served in a variety of professional activities involving engineering education and biomedical research. He is the author of over 300 publications, book chapters, and presentations, and continues an active research program in biomedical engineering. Giddens chaired an NAE project that developed a 2008 report, "Changing the Conversation: Messages for Improving the Public Understanding of Engineering."

ASEE SECTION AWARDS

ASEE AWARDS

PROFESSIONAL AND TECHNICAL DIVISION AWARDS

OUTSTANDING TEACHING AWARDS

GULF SOUTHWEST SECTION

J. Carter Tiernan
University of Texas at Arlington

ILLINOIS-INDIANA SECTION

Collin McMillan

University of Notre Dame

MIDWEST SECTION

Patrick O'Malley

Benedictin College

MIDDLE ATLANTIC SECTION

Steven Marra

Johns Hopkins University

NORTHEASTERN SECTION

Erica C. Kemmerling

Tufts University

PACIFIC NORTHWEST SECTION

Kristen Davis

Boise State University

PACIFIC SOUTHWEST SECTION

Paul M. Nissenson

California State Polytechnic University, Pomona

SOUTHEASTERN SECTION

Ann Saterbak

Duke University

ST. LAWRENCE

Hadas Ritz

Cornell University

OUTSTANDING CAMPUS REPRESENTATIVE

GULF SOUTHWEST SECTION

Amir Karimi

University of Texas at San Antonio

ILLINOIS INDIANA SECTION

Miiri Kotche

University of Illinois at Chicago

MIDWEST SECTION

Sara E. Wilson

University of Kansas

NORTH CENTRAL SECTION

Ann D. Christy

Ohio State University

NORTHEASTERN SECTION

B. Kris Jaeger-Helton

Northeastern University

PACIFIC NORTHWEST SECTION

Shiny Abraham

Seattle University

PACIFIC SOUTHWEST SECTION

Paul M. Nissenson

California State Polytechnic University, Pomona

ROCKY MOUNTAIN SECTION

Justin Jackson

Weber State University

SOUTHEASTERN SECTION

Charles E. Pierce

University of South Carolina

ST. LAWRENCE SECTION

Ilya Y. Grinberg

Buffalo State College, The State University of New York

(Additional award information can be found on division websites.)

AEROSPACE ENGINEERING DIVISION

JOHN LELAND ATWOOD AWARD

Byron D. Tapley

Professor Emeritus

University of Texas at Austin Center for Space Research

This award was established in 1985 in honor of Lee Atwood, a master of aviation and pioneer in missile and space projects. It is bestowed annually upon an outstanding aerospace engineering educator in recognition of contributions to the profession. The award is endowed by Rockwell International and consists of a \$2,000 honorarium, a certificate, and reimbursement of travel expenses to the ASEE Annual Conference. The American Institute of Aeronautics and Astronautics also presents an engraved medal and a certificate to the recipient at its annual aerospace sciences meeting.

MECHANICAL ENGINEERING DIVISION

RALPH COATS ROE AWARD

Grant G. Crawford

Professor of Mechanical Engineering

Quinnipiac University

This award honors an outstanding mechanical engineering teacher who has made notable contributions to the engineering profession. Financed from an endowment established by Kenneth A. Roe of Burns and Roe, Inc., in honor of his father, Ralph Coats Roe, the award consists of a \$10,000 honorarium, a plaque, and reimbursement of travel expenses to attend the ASEE Annual Conference.

BIOLOGICAL & AGRICULTURAL ENGINEERING

EXCELLENCE IN TEACHING MATERIALS AND METHODS AWARD

Robert Stwalley

Purdue University

EARLY ACHIEVEMENT IN EDUCATION AWARD

Alicia Modenbach

University of Kentucky

BEST PAPER AWARD

Lisa Deane Morano and Vassilios Tzouanas

University of Houston-Downtown

PAPER: A Curriculum in Urban Agriculture and Sustainability and Lessons Learned

BIOMEDICAL ENGINEERING DIVISION

THEO C. PILKINGTON OUTSTANDING EDUCATOR AWARD

Judy Cezeaux

Arkansas Tech University

BIOMEDICAL ENGINEERING TEACHING AWARD

Karin Jensen

University of Illinois at Urbana-Champaign

BEST PAPER AWARD

William H. Guilford

University of Virginia

PAPER: Clinician-Engineer Career Bias and Its Relationship to Engineering Design Self-efficacy among Biomedical Engineering Undergraduates

BED TRAVEL AWARDS

Stanley Ng

University of North Dakota

Kali Morgan

Georgia Institute of Technology

CHEMICAL ENGINEERING DIVISION

THE THOMAS AND DONNA EDGAR CACHE AWARD FOR EXCELLENCE IN CHEMICAL ENGINEERING EDUCATION

Matthew Liberatore

University of Toledo

RAY W. FAHIEN AWARD

Ashlee Ford Versypt

Oklahoma State University

PROFESSIONAL AND TECHNICAL DIVISION AWARDS

CHE DIVISION YOUNG FACULTY/FUTURE FACULTY MENTORING AND TRAVEL GRANT

Catherine Fromen

University of Delaware

JOSEPH J. MARTIN AWARD (ASEE 2019)

Katharyn Nottis, Michael Prince, Margot Vigeant, and **Amy Golightly**

Bucknell University

BEST POSTER AWARD (ASEE 2019)

Jason White

University of California, Davis

WILLIAM H. CORCORAN AWARD

Jamie R. Gomez and Vanessa Svihla

University of New Mexico

CHE DIVISION ENGINEERING EDUCATION MENTORING GRANT

Kara Fong

University of California, Berkeley

Katelyn Dahlke and Kitana Kaiphanliam

Washington State University

CIVIL ENGINEERING DIVISION

STEPHEN J. RESSLER BEST PAPER AWARD

Sean L. Gestson

Shane A. Brown

Matthew S. Barner

Oregon State University

Masoud G. Abadi

California State University, Sacremento

David S. Hurwitz

Oregon State University

PAPER: Factors Contributing to the Problem-Solving Heuristics of Civil Engineering Students

GEORGE K. WADLIN DISTINGUISHED SERVICE AWARD

Matthew W. Roberts

Southern Utah University

GERALD R. SEELEY EARLY CAREER FACULTY AWARD

Ben Dymond

University of Minnesota, Duluth

PAPER: Implementation of a Laboratory Experience in Reinforced Concrete Courses

GLEN L. MARTIN PRACTITIONER SERVICE AWARD

Jon D. Nelson

Tetra Tech. Inc.

EMERGING LEADER FELLOW AWARD

Timothy Kennedy

Abilene Christian University

INDUSTRY PARTNERSHIPS DIVISION

DISTINGUISHED SERVICE AWARD

Linda Krute

North Carolina State University

DESIGN IN ENGINEERING EDUCATION

DESIGN IN ENGINEERING EDUCATION BEST PAPER AWARD

Eunhye Kim, Senay Purzer, Carolina Vivas-Valencia, Lindsey B. Payne, and Nan Kong

Purdue University

PAPER: Problem Reframing and Empathy Manifestation in the Innovation Process

EDUCATIONAL RESEARCH AND METHODS DIVISION

ERM DISTINGUISHED SERVICE AWARD

Matthew Verleger

Embry-Riddle Aeronautical University

ERM BEST PAPER AWARD

Catherine McGough

Minnesota State University, Mankato

Lisa Benson

Clemson University

PAPER: It's the End of the World as We Know It, and I Need a Job: A Qualitative Exploration of Mid-Year Engineering Students' Future Possible Careers

ASEE AWARDS

PROFESSIONAL AND TECHNICAL DIVISION AWARDS

ERM BEST DIVERSITY PAPER AWARD

Justin Major, Matthew Scheidt, Allison Godwin, and **Edward Berger**

Purdue University

John Chen

California Polytechnic State University, San Luis Obispo

PAPER: Effects of Test Anxiety on Engineering Students' STEM Success

ENGINEERING ECONOMY DIVISION

BEST PAPER FOR THE ENGINEERING ECONOMY DIVISION

Bradley Schmid

University of Saskatchewan

PAPER: Development of an Open Textbook for **Engineering Economics**

ENGINEERING ETHICS DIVISION

BEST DIVISION PAPER AWARD

Madeline Polmear

University of Florida

Angela R. Bielefeldt

University of Colorado Boulder

Nathan E. Canney

CYS Structural Engineers Inc.

Chris Swan

Tufts University

Daniel Knight

University of Colorado Boulder

PAPER: Student Perceptions of an Ethics Intervention: **Exploration Across Three Course Types**

BEST DIVISION DIVERSITY PAPER AWARD

Greg Rulifson

USAID

Angela R. Bielefeldt

University of Colorado Boulder

PAPER: Health Stress and Support System Narratives of Engineering Students

ENGINEERING LIBRARIES DIVISION

HOMER I. BERNHARDT DISTINGUISHED SERVICE AWARD

Craig W. Beard

University of Alabama at Birmingham

BEST PUBLICATION

Danielle Cooper

Rebecca Springer

et al

PAPER: Supporting the Changing Research Practices of Civil and Environmental Engineering Scholars

ENVIRONMENTAL ENGINEERING DIVISION

BEST PAPER AWARD

Pamela McLeod

Stanford University

Junko Munakata Marr

Colorado School of Mines

PAPER: Developing a Multi-Campus Model for REU Sites

EARLY CAREER AWARD

Matthew Scarborough

University of Vermont

Katherine (Trina) McMahon University of Wisconsin-Madison

PAPER: Overcoming Affective and Cognitive Chemistry Challenges in an Introductory Environmental Engineering Course using a Flint Water Crisis Case Study

BEST PAPER HIGHLIGHTING DIVERSITY AWARD

Inez Hua **Loring Nies Lindsey Payne**

Purdue University

PAPER: Environmental and Ecological Engineering in Context: A Foundational Graduate Course

PROFESSIONAL AND TECHNICAL DIVISION AWARDS

MULTIDISCIPLINARY ENGINEERING DIVISION

BEST MULTIDISCIPLINARY DIVISION PAPER

Carlotta A. Berry

Rose-Hulman Institute of Technology

Michael A. Gennert

Worcester Polytechnic Institute

Rebecca Marie Reck

Kettering University

PAPER: Practical Skills for Students in Mechatronics and Robotics Education

GRADUATE STUDIES DIVISION

BEST PAPER AWARD

Eric Holloway David Radcliffe Kerrie Douglas William Oaks

Purdue University

PAPER: Assessing Engineering Ph.D. Students' Research Experiences: What is Important to Assess?

WOMEN IN ENGINEERING DIVISION

MARA H. WASBURN EARLY ENGINEERING EDUCATOR GRANT (FACULTY)

Rachel Childers

University of Oklahoma

Catherine McGough

Minnesota State University

Anna Tarakanova

University of Connecticut

MARA H. WASBURN EARLY ENGINEERING EDUCATOR GRANT (STUDENT)

Erica Comber

Carnegie Mellon University

Megan Levis

University of Notre Dame

Amanda Johnston

Purdue University

WIED'S BEST DIVERSITY PAPER

Robyn Sandekian JoAnn Silverstein

Beverly Louie

University of Colorado Boulder

PAPER: Interventions in Faculty Recruiting, Screening, and Hiring Processes Enable Greater Engineering Faculty Diversity

WIED'S BEST PAPER

Alison Olechowski

University of Toronto

Kimberly Ren

University of Toronto

PAPER: Gendered Professional Role Confidence and Persistence of Artificial Intelligence and Machine Learning Students

ASEE AWARDS

PAST NATIONAL AND SOCIETY AWARD RECIPIENTS AND FELLOW MEMBER HONOREES

FELLOW MEMBER HONOREES

2010 Ramesh Agarwal, Lia Brillhart, Eugene DeLoatch, Dennis Fallon, Don Giddens, Joan Gosink, Lueny Morell, William Oakes, Paul Peercy, Teri Reed-Rhoads, Thomas Roberts, Jennifer Sinclair-Curtis, Bevlee Watford

2011 Mary E. Besterfield-Sacre, Susan M. Blanchard, Nancy L. Denton, Kenneth F. Galloway, Ray M. Haynes, Leah H. Jamieson, Linda Krute, Larry G. Richards, Carol A. Richardson, Ronald H. Rockland, Jacquelyn Sullivan, Krishna Vedula

2012 Janie Fouke, Jane Fraser, Jeffrey E. Froyd, Lawrence J. Genalo, Thomas M. Hall, Jr., Robert J. Herrick, Marybeth Lima, Charles McIntyre, Matthew W. Ohland, Diane T. Rover, Richard Zollars

2013 Stephanie G. Adams, Maureen A. Barcic, Theodore J. Branoff, Jenna P. Carpenter, Cynthia Finelli, Amir Karimi, Susan Kemnitzer, Susan M. Lord, Jessica O. Matson, Kanti Prasad, David F. Radcliffe, David L. Whitman

2014 Laura Bottomley, Rebecca Brent, Christine M. Cunningham, Patricia Hall, Jason M. Keith, Kim LaScola Needy, Hamid R. Parsaei, Jeffrey L. Ray, Mary A. Sadowksi, Ann Saterbak, Noel N. Schulz, John J. Uhran, Jr.

2015 Patricia D. Bazrod, Daina Briedis, Martha Cyr, Norman D. Dennis, Stephanie Farrell, Richard O. Mines, S. Hossein Mousavinezhad, Ruth A. Streveler, Donald P. Visco, Richard C. Warder, Ronald W. Welch

2016 Wayne T. Davis, John K. Estell, Ronald E. Land, Teresa L. Larkin, Thomas A. Lenox, Elizabeth A. Parry, Michael J. Prince, Donna Reese, Donna M. Riley, Catherine Skokan

2017 Kristen P. Constant, Ted Eschenbach, Craig J. Gunn, Michael T. Harris, Beth M. Holloway, Nelson A. Macken, Lance C. Pérez, Stephen J. Ressler, James R. Rowland, Cheryl B. Schrader, Susan E. Walden

2018 John W. Brocato, Xavier Fouger, Richard J. Freuler, Herbert L. Hess, Stacy S. Klein-Gardner, Niaz Latif, Jerome P. Lavell, Michael C. Loui, Adrienne Minerick, Nick M. Safai, Brian P. Self

2019 Lisa C. Benson, Angela R. Bielefeldt, Lisa G. Bullard, Ann D. Christy, Milo D. Koretsky, Ann F. McKenna, John L. Falconer, Joseph R. Herkert, Julie P. Martin

ASEE LIFETIME ACHIEVEMENT AWARD IN ENGINEERING EDUCATION

2012 Richard N. Felder

2014 James E. Stice

2015 Karl A. Smith

2016 Russ Pimmel

2017 Not Presented

2018 James L. Melsa

2019 K.L. DeVries

BENJAMIN GARVER

LAMME AWARD

2010 James Stice

2011 Jean-Lou Chameau

2012 Lester A. Gerhardt

2013 Nicholas A. Peppas

2014 Pablo G. Debenedetti **2015** Clive L. Dym

2016 David C. Munson

2017 Not Presented

2018 Arvind Varma

2019 H. Vincent Poor

FREDERICK J. BERGER AWARD

2010 Robert Herrick

2011 Carol Richardson

2012 Kenneth Rennels

2013 Marilyn Dyrud

2014 Jay R. Porter2015 Scott C. Dunning

2016 Ning Latif

2016 Niaz Latif

2017 Not Presented2018 Gary D. Steffen

2019 Keith V. Johnson

CHESTER F.

CARLSON AWARD

2010 Philip S. Schmidt

2011 M. Granger Morgan

2012 William C. Oakes

2013 Timothy J. Anderson

2014 Not Presented

2015 Barbara A. Oakley

2016 Not Presented

2017 Not Presented

2018 Marvbeth Lima

2019 Matthew W. Ohland

PAST NATIONAL AND SOCIETY AWARD RECIPIENTS AND FELLOW MEMBER HONOREES

ISADORE T. DAVIS AWARD

(First presented in 2011)

2011 Dharmaraj Veeramani

2012 Mohammad Noori

2013 Ramulu Mamidala

2014 Not Presented

2015 Not Presented

2016 Ramesh K. Agarwal

2017 Not Presented

2018 Alok K. Verma

2019 Joseph J. Rencis

DUPONT MINORITIES IN ENGINEERING AWARD

2009 Brenda Hart

2010 Not Presented

2011 Richard A. Tapia

2012 Carolyn Vallas

2013 Not Presented

2014 Stephanie Luster-Teasley

2015 Helene Finger

2016 Bruce A. Lindvall

2017 Salil S. Desai

2018 Not Presented

2019 Sylvanus N. Wosu

CLEMENT J. FREUND AWARD

(Presented biennially beginning in 1995)

2009 Brenda J. LeMaster

2011 Helen C. Oloroso

2013 Kenneth C. Porteous

2015 William D. Taylor

2017 Not Presented

2019 Patricia D. Bazrod

JOHN L. IMHOFF AWARD

(First presented in 2006)

2010 Adedeji Badiru

2011 Not Presented

2012 Bopaya Bidanda 2013 Mario Beruvides

2014 Not Presented

2015 Not Presented

2016 Edward A. Pohl

2017 César O. Malavé

2018 John Jackman

2019 Jayant Rajgopal

SHARON A. KEILLOR AWARD

2010 Kauser Jahan

2011 Sheryl Sorby

2012 Mary Besterfield-Sacre

2013 Teri Reed-Rhoads

2014 Susan McCahan

2015 Mia K. Markey 2016 Karen C. Davis

2017 Not Presented

2018 Donna C. Llewellyn

2019 Jenna P. Carpenter

JAMES H. MCGRAW AWARD

2010 Marilyn Dyrud

2011 Thomas M. Hall, Jr.

2012 Ashok K. Agrawal

2013 Frank Hart

2014 Robert J. Herrick

2015 Ronald E. Land 2016 Carol Richardson

2017 Jeffrey L. Ray

2018 Scott Dunning

2019 Kenneth Burbank

MERIAM/WILEY DISTINGUISHED AUTHOR AWARD

(Presented biennially beginning in 1993)

2010 Antonios G. Mikos, Johnna S. Temenoff

2012 Katta G. Murty

2014 Not Presented

2016 Not Presented

2018 Not Presented

NATIONAL ENGINEERING ECONOMY TEACHING EXCELLENCE AWARD

(first presented in 2010)

2010 Gerald A. Fleischer

2012 Richard Bernhard

2014 John A. White

2016 Ted Eschenbach

2018 William G. Sullivan

ASEE AWARDS

PAST NATIONAL AND SOCIETY AWARD RECIPIENTS AND FELLOW MEMBER HONOREES

NATIONAL OUTSTANDING TEACHING AWARD

(first presented in 2004)

2010 J. Ledlie Klosky

2011 Autar Kaw

2012 Col. Bobby "Grant" Crawford

2013 Yacob Astatke

2014 Jeffrey Will

2015 Robert M. Brooks

2016 Mary C. Verstraete

2017 Amelito G. Enriquez

2018 Not Presented

2019 Mark M. Budnik

ROBERT G. QUINN AWARD

2011 Ahmed Rubaai

2012 Thomas F. Schubert, Jr.

2013 Not Presented

2014 Surendra K. Gupta

2015 Larry Cartwright

2016 Not Presented 2017 Not Presented

2018 Not Presented

2019 Daniel B. Oerther

WILLIAM ELGIN WICKENDEN AWARD

2010 David Jonassen, Demei Shen, Rose M. Marra, Young-Hoan Cho, Jenny Lo, Vinod Lohani

2011 Gary Lichtenstein, Alexander C. McCormick, Sheri D. Sheppard, Jini Puma

2012 Matthew W. Ohland, Catherine E. Brawner, Michelle M. Camacho, Richard

A. Layton, Russell A. Long, Susan M. Lord, Mara H. Wasburn

2013 Deborah A. Trytten, Anna Wong Lowe, Susan E. Walden

2014 Muhsin Menekse, Glenda S. Stump, Stephen Krause, Michelene T. H. Chi

2015 Beth M. Holloway, Teri Reed, P.K. Imbrie, and Ken Reid

2016 Debra M. Friedrichsen, Benjamin U. Sherrett, Edith S. Gummer, Audrey B.

Champagne, and Milo D. Koretsky 2017 Amy Wilson-Lopez, Joel Alejandro Mejia, G. Sue Kasun, and Indhira María

2018 Susan Conrad

Hasbún

2019 Stephen Secules, Ayush Gupta, Andrew Elby, and Chandra Turpen

For more information visit: 2020honors.asee.org



CALL FOR NOMINATIONS

2021 ASEE AWARDS

Through the Awards Program, ASEE annually recognizes the outstanding accomplishments of engineering and engineering technology educators. By their commitment to their profession, desire to further the Society's mission, and participation in civic and community affairs, ASEE award winners exemplify the best in engineering and engineering technology education.

Nominations for awards to be presented in June 2021 will open November 16, 2020 and close January 15, 2021. The awards that will be given in 2021 are:

ASEE President's Award

ASEE Lifetime Achievement Award

Benjamin Garver Lamme Award

Chester F. Carlson Award

Clement J. Freund Award

DuPont Minorities in Engineering Award

Frederick J. Berger Award

Isadore T. Davis Award

James H. McGraw Award

John L. Imhoff Award

National Outstanding Teaching Award

National Engineering Technology Teaching Award

Robert G. Quinn Award

Sharon Keillor Award

William Elgin Wickenden Award

Additional information on ASEE Awards can be found here: https://www.asee.org/awards. If you have questions regarding the nominations process or any of the information contained herein, please contact Sylvie Nguyen-Fawley (Assistant Board Secretary) at s.nguyen-fawley@asee.org or by phone at (202) 331-3516.