ASEE 2014 Annual Awards Ceremony

Indiana Convention Center & Lucas Oil Stadium
Sagamore Ballroom
Indianapolis, Indiana
June 16, 2014

Ceremony
4:30 – 6:00 p.m.

ASEE thanks Dassault Systèmes and Clemson University for sponsoring the 2014 ASEE Awards Ceremony
OPENING REMARKS AND INTRODUCTION
Kenneth Galloway
2013 - 2014 ASEE President

PRESENTATION OF PLAQUES TO OUTGOING MEMBERS OF THE ASEE BOARD OF DIRECTORS
Kenneth Galloway

PRESENTATION OF SOCIETY AWARDS
Outstanding Zone Campus Representatives
ASEE Fellow Member Honorees
Benjamin Garver Lamme Award
Pablo G. Debenedetti

Donal E. Marlowe Award
Jean W. Zu

PRESENTATION OF NATIONAL AWARDS
Frederick J. Berger Award
Jay Porter

DuPont Minorities in Engineering Award
Stephanie Luster-Teasley

Sharon A. Keillor Award
Susan McCahan

ASEE Lifetime Achievement Award in Engineering Education
Richard M. Felder

James H. McGraw Award
Robert J. Herrick

Fred Merryfield Design Award
Maria C. Yang

National Engineering Economy Teaching Excellence Award
John A. White

National Outstanding Teaching Award
Jeffrey Will

ASEE President’s Award
Ioannis (Yannis) N. Miaoulis

Robert G. Quinn Award
Surendra K. Gupta

William Elgin Wickenden Award
Muhsin Menekse, Glenda S. Stump, Stephen Krause, Michelene T. H. Chi

ASEE Annual Conference Best Paper Awards

CLOSING CEREMONIES
Acknowledgements................................................................................................................................. Kenneth F. Galloway
**OUTSTANDING ZONE CAMPUS REPRESENTATIVE AWARD**

This award was initiated by the Campus Liaison Board to honor outstanding Zone Campus Representatives. Each award winner receives a plaque.

### ZONE I

**Kanti Prasad**  
*University of Massachusetts, Lowell*

### ZONE IV

**Matthew Kuhn**  
*University of Portland*

### ZONE II

**John W. Brocato**  
*Mississippi State University*

### PAST WINNERS

<table>
<thead>
<tr>
<th>Year</th>
<th>Winners</th>
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<tr>
<td>1980</td>
<td>J. Burgess, Durward Huffman, L. Greenfield, Richard Noble</td>
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<td>1981</td>
<td>N. Hsu, John Lucey, G. Trammell</td>
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<td>1982</td>
<td>B. Basore, James Moore, M. Mushala</td>
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<td>1984</td>
<td>Robert Elson, Ronald Barr, Anthony Rigas</td>
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<td>1986</td>
<td>K. Mortimer, Charles Bissey, D. Miller</td>
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<td>1987</td>
<td>J.N. Clausen, Gerald S. Jakubowski</td>
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<td>1988</td>
<td>D. Gehmlich, Ronald Barr, Thomas Weber</td>
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<td>1989</td>
<td>Alan Lane, Thomas Mulinazzi, J.G. LoCascio, Alexander Czeto</td>
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<td>1990</td>
<td>Richard Culver, A.R. Mechanical, H.N. Wiren, Larry Pleiman</td>
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<td>1991</td>
<td>Thadeus Wisz, John Uhran, R.E. Zulinski</td>
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<td>1993</td>
<td>C. Stewart Slater, C.S. Larson, D.L. Elbert, Edward Larson</td>
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<td>1994</td>
<td>Charles Spiteri, Seyed Mousavinezhad, Jon Jensen, Ronald Terry</td>
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<td>1995</td>
<td>Surendra K. Gupta, Paul Plotkowski, Richard Lewis, Habib Sadid</td>
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<td>Dennis A. Silage, Cristina Amon, Richard Marleau, Paul Rainey</td>
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<td>Col. Thomas A. Lenox, Kenneth P. Brannan, Amir Karimi, David E. Westler</td>
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<td>1998</td>
<td>William C. Beston, Jr., John H. Darnell, Ravi Pendse, Nikos J. Mourtos</td>
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<td>1999</td>
<td>Deran Hanesian, John J. Uhran, Jr., John A. Weese, Paul E. Rainey</td>
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<td>Velio Marsocci, Charles Knight, Marilyn A. Dyrud</td>
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<td>2002</td>
<td>Stephanie Farrell, Paul Lam, Sudhir J. Mehta, Allen Plotkin</td>
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<td>2005</td>
<td>Kanti Prasad, Sandra A. Yost, Troy F. Henson</td>
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<td>2006</td>
<td>Paul Botosani, Kevin Bower, Charles McIntyre</td>
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<td>2007</td>
<td>Harry Hess, Donald P. Visco, Christi L. Patton Luks, Marilyn Dyrud</td>
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<td>Susan McCahan, Kevin C. Bower, Walter W. Buchanan</td>
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<td>2009</td>
<td>Robert Brooks, Paul Lam, Raju Dandu, Steve Beyerlein</td>
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<td>George Sutherland, John Brocato, Walter W. Buchanan, Craig Johnson</td>
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<td>Navarun Gupta, J. P. Mohsen, Steven Hietpas, Amir Rezaei</td>
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<td>2012</td>
<td>Kanti Prasad, Larry G. Richards, Walter W. Buchanan, Agnieszka Miguel</td>
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<td>2013</td>
<td>Kanti Prasad, John Brocato, Matthew Kuhn</td>
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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.

LAURA BOTTOMLEY
Director, Women in Engineering and K-12 Outreach
College of Engineering
North Carolina State University
Nominated by: Jed S. Lyons, University of South Carolina

HAMID R. PARSAEI
Professor and Associate Dean, Academic Affairs
Mechanical Engineering Program
Texas A&M University at Qatar
Nominated by: Edwin C. Jones, Iowa State University

REBECCA BRENT
President and Consultant
Education Designs Inc.
Nominated by: Cynthia J. Atman, University of Washington

JEFFREY L. RAY
Dean and Professor
School of Engineering Technology and Management
Southern Polytechnic State University
Nominated by: Robert J. Herrick, Purdue University, West Lafayette

CHRISTINE M. CUNNINGHAM
Founder and Director,
Engineering is Elementary
Vice President, Museum of Science, Boston
Nominated by: Teri Reed, Texas A&M University

MARY A. SADOWSKI
Dean, Purdue Extended Campus
Department of Computer Graphics Technology
Purdue University
Nominated by: Frank M. Croft, Jr., Ohio State University

PATRICIA HALL
Associate Dean,
Continuing Engineering & Science Education
University of Tulsa
Nominated by: Jenna P. Carpenter, Louisiana Tech University

ANN SATERBAK
Professor
Department of Bioengineering
Rice University
Nominated by: Rebecca R. Richards-Kortum, Rice University

JASON M. KEITH
Professor, Director, and Earnest W. Deavenport, Jr. Chair
Dave C. Swalm School of Chemical Engineering
Mississippi State University
Nominated by: Angelo J. Perna, New Jersey Institute of Technology

NOEL N. SCHULZ
Associate Dean for Research and Graduate Programs
College of Engineering
Kansas State University
Nominated by: Bette Grauer, Kansas State University

Kim LaSCOLa
Department of Industrial Engineering
University of Arkansas
Nominated by: Jane M. Fraser, Colorado State University, Pueblo

JOHN J. UHRAN, JR.
Professor Emeritus
Department of Computer Science and Engineering
University of Notre Dame
Nominated by: Raymond B. Landis, California State University, Los Angeles
Pablo Debenedetti is recognized for fundamental contributions to modern engineering thermodynamics/statistical mechanics, notably to the understanding of the liquid state, the thermodynamics of super-cooled and glassy water, and the theory of hydrophobicity; and for a broad range of engineering applications of these fundamental advances. He is awarded the Benjamin Garver Lamme Award for his inspired authorship of groundbreaking articles and a landmark textbook, for his talent and commitment toward education and mentorship, and for his dedicated and multifaceted administrative service to his department, engineering school, university, and profession in ways that have profoundly shaped the education and careers of his students and peers.
Established in 1981 by the ASEE Board of Directors, the Donald E. Marlowe Award recognizes an individual administrator who has made significant ongoing contributions to engineering and engineering technology education by unusually effective national leadership and example beyond accepted tradition. The award consists of a commemorative plaque and travel-expense reimbursement to the ASEE annual conference.

Jean Zu is recognized for her many contributions to engineering education, as a teacher and as an administrator. At the University of Toronto, she introduced client-based capstone design courses and industry-based design projects, established international student exchange programs, and promoted and supported student clubs and activities relating to engineering education, both at the undergraduate and graduate levels.

Jean Zu graduated with a B.Sc. in 1984 and M.Sc. in 1986 from Tsinghua University, where she worked as a lecturer and researcher before coming to Canada for doctoral studies. She obtained her Ph.D from the University of Manitoba in 1993, joining the University of Toronto’s department of mechanical and industrial engineering as an assistant professor in January 1994. She was promoted to associate professor in 1999 and to full professor in 2004. From June 2008 to June 2009, Zu served as associate chair for research. Since July, 2009, she has been serving as department chair.

Zu’s research has been focused on mechanical vibrations and dynamics. She has successfully collaborated with many different companies on research projects, with a focus on automotive applications. In recent years, Zu has extended her research to mechatronics areas in biomedical instruments and energy harvesting. She has published close to 300 papers, including 130 journal papers, and has supervised 60 graduate students. She is Fellow of CAE, ASME, EIC, CSME, and AAAS. She served as president of the Canadian Society for Mechanical Engineering in 2006-2008 and on the NSERC Grant Selection Committee in 2004-2007, and as the associate editor of the ASME Journal of Vibration and Acoustics.

She currently is the president of the Engineering Institute of Canada (EIC).

Nominated by Iain George Currie, University of Toronto
The Frederick J. Berger Award, established in 1990 by Frederick J. Berger, 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 bronze medallion; the institution receives a $500 honorarium and an inscribed plaque.

Frederick J. Berger has been acclaimed 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 engineering technology.

Jay Porter is recognized for his many contributions to engineering technology education. He has served engineering technology in numerous roles, including as a member of the board of the Tau Alpha Pi National Honor Society for Engineering Technology; Vice Chair, Communications for the ASEE Engineering Technology Division; and Treasurer for the Electrical and Computer Engineering Technology Department Head Association. An active member of ASEE since 2000, he has served as a presenter, reviewer, and moderator at the annual conferences.

Jay Porter received his B.S. in electrical engineering in 1987, his M.S. in physics in 1989, and his Ph.D. in electrical engineering in 1993, all from Texas A&M University. On the faculty at Texas A&M since 1998, he currently serves as the program coordinator for the Electronics Systems Engineering Technology program.

The author of 16 journal articles and over 75 conference proceedings, Porter has received several awards for teaching and research, including the Cisco Faculty Fellow Award, the British Petroleum Teaching Excellence Award, the Tenneco Meritorious Teaching Award, the Association of Former Students University-Level Award for Distinguished Achievement, and the Eppright Professorship for Undergraduate Teaching Excellence.

Believing that the United States needs more individuals who can innovate and produce products, Porter has worked with his fellow faculty members to create a two-semester capstone sequence that delivers a true, real-world product development experience. As part of this capstone, student teams form small start-up companies, develop an idea for an electronics-based product, solicit external funding, and then take their idea to a fully functioning prototype. In addition, Porter teaches courses in electromagnetics, analog electronics, instrumentation and product development. Most recently, he was asked by the College of Engineering to be part of a teaching team and offer a university-wide course on innovation and product development. For his successful and innovative teaching methods, Porter was recognized in 2009 with the ASEE Robert G. Quinn Award. Most recently, he took a leadership role in developing his program’s new curriculum focused on product and system development, which has resulted in many benefits, including a 50 percent growth in enrollment and many new employment opportunities for his students.

Since 1995, Porter has been active in professional societies and in industry. He has held such positions as co-chair for the IEEE Engineering in Medicine and Biology Student Activities Committee, assistant editor for a special edition of the International Journal of Engineering Education, and RF/Wireless Chair for Teradyne’s User Group Steering Committee. He has served on the board for the Tau Alpha Pi National Honor Society for Engineering Technology and is currently an ABET evaluator for both IEEE and ASEE. Porter has served for several years on the board of ASEE’s Engineering Technology Division as vice chair for communications, and as treasurer for the Electrical and Computer Engineering Technology Department Heads’ Association.

Nominated by Kaye L. Matejka, Texas A&M University
The DuPont Minorities in Engineering Award honors an engineering educator for exceptional achievement in increasing 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.

**Stephanie Luster-Teasley**
Associate Professor,  
Department of Civil,  
Architectural, and  
Environmental Engineering  
Department of Chemical,  
Biological, and Bioengineering  
North Carolina Agricultural and  
Technical State University

Stephanie Luster-Teasley is recognized for her achievements in increasing participation and retention of minorities and women in engineering, which includes her leadership in the Engage 2BE Engineers Program at North Carolina A&T State University, and the Girls in Science Lab Enrichment Program.

National Women of Color in Technology Educational Leadership Award, the 2006 North Carolina A&T State University Rookie Researcher of the Year Award, and the 2008 N.C. A&T Junior Faculty Teaching Excellence Award. In 2010, she led the N.C. A&T team that developed the winning National 4-H Science Youth Day experiment now used by millions of K-8 students worldwide. In 2013, she received the UNC Board of Governors Teaching Excellence Award, one of the highest awards conferred for teaching in the UNC system. In August 2013, she was awarded a U.S. patent for her development of a controlled-release biodegradable polymer capable of treating wastewater.

Luster-Teasley leads the NCA&T Engage 2BE Engineers program funded by the U.S. Department of Education. The Engage 2BE Engineers program is a strengths-based mentoring program designed to increase the number of minority students pursuing graduate degrees in engineering by providing one-on-one mentoring with the E2BE team, professional development workshops, and the use of social media to increase student knowledge of available programs. This program serves minority students, women with children, first-generation college students, and students with disabilities. Results from the mentoring program have demonstrated increases in the number of students participating in summer internships, undergraduate research, and continuing to graduate school at research-intensive universities. Luster-Teasley oversees the Girls in Science Lab Enrichment Program funded by the Burroughs-Wellcome Fund to implement science programs for middle school girls.

Driven by a deep commitment and care for her students’ learning, Luster-Teasley is lauded for bringing the excitement of real-world, hands-on experience into all of her engineering courses. She uses a variety of research-based, student-centered pedagogical methods in her teaching and service for students. Her passion and drive as an educator is to increase ethnic diversity and the number of women pursuing careers in science, engineering, and technology.

Nominated by Bala Ram,  
North Carolina A&T State University
The Sharon A. 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 plaque.

Sharon A. Keillor was an engineering educator and a high 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, Amherst. Afterward, she embarked upon an outstanding career in industry, which included serving at Digital Equipment Corporation as 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; and vice president of Raytheon Marine, and managing director of its operations in Portsmouth, England.

Susan McCahan is recognized for her many accomplishments as an educator, including her leadership in developing the faculty’s flagship first-year design course and initiatives for educators such as graduate-level courses on engineering teaching and learning and university-wide courses on teaching in higher education.

Susan McCahan received her B.S. in mechanical engineering from Cornell University and her M.S. and Ph.D., also in mechanical engineering, from Rensselaer Polytechnic Institute. Between her undergraduate and graduate programs, she worked as a design engineer with RCA/GE. She has been a professor in the Department of Mechanical and Industrial Engineering at the University of Toronto since 1992. She was the First Year in Engineering chair from 2006 to 2011 and currently holds the position of Vice Dean, Undergraduate in the Faculty of Applied Science and Engineering.

McCahan’s research was in the thermodynamics of heavy hydrocarbons and disruptive evaporation. She is currently active in engineering education research, leading a project to develop valid assessment measures for learning outcomes in essential professional competencies. However, her primary work in engineering education focuses on the application of Universal Instruction Design (UID) to create accessible learning environments. This research combines her interest in design with her commitment to making the engineering profession welcoming for students from diverse backgrounds.

McCahan collaborates with a group of instructors on the teaching of a large freshman design course. This course, which has a typical enrolment of 900 to 1,000 students, uses community-service learning to engage students in the design process and develop their professional abilities. She is the lead author on a text for introductory design courses that will be in publication this year. McCahan also teaches courses on teaching and learning for graduate students and faculty.

McCahan is the recipient of several major awards related to teaching and teaching leadership, including the 3M National Teaching Fellowship (2007), the OCUFA Teaching Award (2009/10) and the Engineers Canada Medal of Distinction in Education (2009). She is a fellow of the American Association for the Advancement of Science for her contributions to engineering education. In addition, McCahan led the team that received the 2007 Alan Blizzard Award for collaborative teaching for implementation of the freshman design course that integrates design, teamwork, and communication development.
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 or educational programs, professional service, or any combination thereof.

The award was established through the efforts of the ASEE Lifetime Achievement Award Steering Committee and funded by an endowment created for this award by the contributions of ASEE Life Members and like-minded, Not-Yet-Life Member Fellows. The recipient will receive a $1,000 honorarium, assistance of up to $1,000 for travel to the ASEE Annual Conference to receive the award, and a commemorative plaque.

James Stice received his B.S. in chemical engineering from the University of Arkansas and his M.S. and Ph.D. degrees from the Illinois Institute of Technology (IIT), Chicago. After several years’ experience in industry, he taught at IIT for five years, the University of Arkansas for nine years and the University of Texas for 28 years. He was also a visiting professor at Universidad Iberoamericana in Mexico City (summer 1977) and was Hjalmar Person Chair in Engineering at the University of Wyoming 1996-97.

At Texas, Stice was a professor of chemical engineering and the first director of the Bureau of Engineering Teaching, which was believed to be the first office in the country designed to improve the teaching effectiveness of the engineering faculty. He then founded the UT Center for Teaching Effectiveness, which he directed for 16 years. His proudest development was his graduate course in College Teaching for Engineers, possibly the nation’s first such course, which he taught for 24 years.

Stice was the recipient of the Instrument Society of America’s 1966 Journal Award (with B.S. Swanson); was named outstanding professor of chemical engineering at UT 13 times; is an inaugural member of the Arkansas Academy of Chemical Engineers; is a Distinguished Alumnus of the U of A, Distinguished Graduate of IIT, and Charles Pierce Distinguished Alumnus of the Department of Chemical/Biochemical Engineering at IIT.

A Fellow and Lifetime Member of ASEE, Stice became Vice Chairman (ERM Division) and Chairman (ChE Division). Later he became Zone III chair and member of the ASEE Board of Directors. Later, he was director of PIC I, which landed him on the Board of Directors again, at which time he was elected Vice President of ASEE.

The Society has given him the Chester Carlson Award for Innovation in Engineering Education, the Distinguished Service Award for the ERM Division, the Donald Marlowe Award for Distinguished Educational Administration in Engineering, the Lifetime Achievement Award for Pedagogical Scholarship (ChE Division), and the Benjamin Garver Lamme Award.

In 1991, he and Richard Felder began the National Effective Teaching Institute, a three-day workshop on effective teaching for engineering faculty. This workshop, now in its 24th year, is held just before the ASEE Annual Conference each June. Stice served as co-director for 20 years. Attendance to date has been approximately 1,200 participants from more than 300 colleges and universities.

Nominated by: Phillip C. Wankat, Purdue University, West Lafayette
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 co-sponsored 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.

James H. McGraw was recognized as the dean of industrial publishers. He spent some 40 years in the publishing business, beginning as a teacher turned subscription salesman and going on to lay the foundation of one of the largest industrial publishing organizations in the world.

Robert Herrick is recognized by the James H. McGraw Award for his outstanding contributions to engineering technology through his leadership roles at Purdue University, West Lafayette, the University of Toledo, ASEE, IEEE, and FIE, and as a consulting engineer in numerous fields since 1981. As a charter member of the Purdue Teaching Academy, he is included in “The Book of Great Teachers.”

Robert J. Herrick is Purdue University’s Robert A. Hoffer Distinguished Professor of Electrical Engineering Technology. He served as the head of the electrical and computer engineering technology department at Purdue University from 2001 to 2010, and as its assistant department head in the 1990s. In the 1980s, he served as the engineering technology department chair and EET program leader at the University of Toledo. Herrick has held the positions of senior member of the technical staff at International Telephone and Telegraph’s Advanced International Technology Laboratory and was a member of the technical staff at AT&T’s Bell Telephone Laboratories in the 1970s, developing early generations of digital-electronic switching systems.

Herrick has held leadership roles on the following executive boards: ET National Forum (chair), Tau Alpha Pi (president); ETLI (chair, secretary); ETD (treasurer); ETC Standing Committee chair of the ET National Forum (co-founder); IEEE Press editorial board (editor-in-chief, Electronics Technology series editor); FIE Steering Committee (chair); North Central and Illinois-Indiana Section conferences (program co-chair, Proceedings co-editor); and Purdue’s Teaching Academy (charter executive board member). He serves as an ABET Technology Accreditation Commission program evaluator for IEEE and has served as an ASEE campus representative at Purdue University and the University of Toledo.

Herrick has been recognized with national, regional, university, college, and department awards for outstanding teaching and professional service, including: Fellow of ASEE, ASEE’s Fredrick J. Berger Award; Purdue’s life-time Murphy Teaching Award for outstanding undergraduate teaching; induction into Purdue’s Book of Great Teachers (an honor reserved for only 267 faculty in the history of Purdue University at the time of his induction); Purdue Teaching Academy Fellow and Executive Board (charter member); the Ronald Schmitz Award for Outstanding Service to FIE; the ASEE IL-IN Outstanding Campus Representative; the ASEE Hewlett-Packard Award for Excellence in Laboratory Instruction; the ASEE IL-IN Outstanding Teaching Award; and Marquis’ Who’s Who in the World, in America, in Engineering and Science, and in Education.

Herrick has been an active advocate for outstanding teaching and education through his leadership in ASEE, IEEE, and FIE. He has conducted “The Art and Technology of Teaching” workshops at international and national conferences as well as at educational institutions, and authored educational publications, including the textbook DC/AC Circuits and Electronics: Principles and Practice. He currently is engaged in e-textbook development.

Herrick is the recipient of two major grants from the U.S. Department of Education totaling $600,000 for undergraduate semester exchanges with Ireland and Germany, and a dual concurrent master’s program with Ireland and Spain that serves 90 students.
The Fred Merryfield Design Award, established in 1981 by CH2M Hill, recognizes an engineering educator for excellence in teaching of engineering design and acknowledges other significant contributions related to engineering design teaching. The award consists of a $2,500 honorarium, a $500 stipend for travel to the ASEE Annual Conference, and a commemorative plaque. In addition, the recipient’s institutional department receives an award of $500.

Fred Merryfield (1900-1977), a progressive and imaginative pioneer, was a practicing environmentalist, spokesperson for environmental protection, engineering educator, expert engineer and consultant known internationally in the area of water and waste engineering, and a citizen dedicated to service. Merryfield invested 35 years as a teacher and researcher at Oregon State University in the areas of water, sewerage, hydropower systems, and engineering contracts and specifications. During this same period he, along with three of his students, founded the international consulting firm CH2M Hill.

Maria Yang is recognized by the Fred Merryfield Design Award for her accomplishments in design research and education that inspire students of all backgrounds to embrace their creativity. The goal of her work is to act as a “design chrysalis,” transforming students into design thinkers through integrative design experiences that link societal needs with engineering and technology. As an award-winning mentor, she has motivated students from around the world through hands-on, design-and-build experiences that allow them to become makers. At the same time, her design classroom serves as a research test-bed for understanding how designers can design better, promoting a unified vision for teaching and research in design.

Maria Yang is an associate professor of mechanical engineering and engineering systems (dual) at MIT and a member of ASEE. Her research is in the preliminary phases of the process of designing both products and complex engineering systems. She earned her S.B. in mechanical engineering from MIT, and her M.S. and Ph.D. degrees from Stanford University under an NSF Graduate Fellowship. She has held academic positions at the University of Southern California and the California Institute of Technology. Yang served as the director of design at Reactivity, a Silicon Valley start-up now a part of Cisco Systems. She has done research into collaborative design tools at Apple Computer and Lockheed Martin, and has explored user interaction issues of force-feedback devices for Immersion Corp. She is an ASME Fellow, and the recipient of an NSF CAREER award, an ASME Design Theory and Methodology Best Paper Award, the MIT Joel and Ruth Spira Teaching Award, the MIT Capers and Marion McDonald Award, and the MIT Earl Murman Undergraduate Advising Award.

Nominated by: Stephen Lu, University of Southern California
The National Engineering Economy Teaching Excellence Award recognizes an individual who has demonstrated classroom teaching excellence and teaching scholarship in engineering economy. The award 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, where the award will be presented.

John A. White is recognized for his accomplishments as a scholar, administrator, and teacher. During his distinguished 50-year career, in addition to co-authoring three engineering economy text books, he actively taught engineering economy to over 4,000 students, both nationally and internationally. As a testament to his teaching excellence, he is cited by his students for taking a personal interest in their success, both professionally and personally.

On July 1, 2008, after serving 11 years as Chancellor of the University of Arkansas, John White “stepped down” and returned full-time to the UA faculty. Before returning to his undergraduate alma mater as chancellor, White served for six years as dean of engineering at Georgia Tech and was a member of the Georgia Tech faculty for 22 years. From 1988 to 1991, he served as the assistant director for engineering at the National Science Foundation in Washington, D.C.

White received his B.S.I.E. degree from the University of Arkansas. His graduate work was performed at Virginia Tech (M.S.I.E.) and Ohio State University (Ph.D.). He has received honorary doctorates from the Katholieke Universiteit of Leuven in Belgium and George Washington University.

A member of the National Academy of Engineering, White served two six-year terms on the National Science Board. In addition, he served as president of the National Consortium for Graduate Degrees for Minorities in Engineering and Science, Inc. (GEM); president and director of the Foundation for the Malcolm Baldrige National Quality Award; chair of the Council of Presidents of the Southeastern Universities Research Association; president of the Institute of Industrial Engineers (IIE); and chairman of the American Association of Engineering Societies (AAES).

A Distinguished Alumnus of the University of Arkansas, White’s awards include NSF’s Distinguished Service Award; ASEE’s Donald E. Marlowe Distinguished Education Administration Award and John L. Imhoff Global Excellence Award; the Rodney D. Chipp Memorial Award from the Society of Women Engineers; AAES’s Kenneth Andrew Roe Award; IIE’s highest award, the Frank and Lillian Gilbreth Industrial Engineering Award, as well as its David F. Baker Distinguished Research Award, Albert G. Holzman Distinguished Educator Award, Outstanding Publication Award, and Book of the Year Award (twice); the Material Handling Education Foundation’s Reed-Apple Award; and Virginia Tech’s Academy of Engineering Excellence award; He was named SME’s Educator of the Year and Georgia Tech’s Teacher of the Year.

White currently serves as a member of the board of directors for J. B. Hunt Transport Services, Inc. He previously served on the board of directors for Eastman Chemical Company, Logility, Inc., Motorola, Inc. (and Motorola Solutions, Inc.), Russell Corporation, and CAPS Logistics, Inc.

Nominated by: Kim LaScola Needy, University of Arkansas
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, a certificate, and complimentary registration for the ASEE Annual Conference.

Jeff Will is recognized by the ASEE National Outstanding Teaching Award for his teaching excellence in the classroom and laboratory, and for his significant contributions to undergraduate research. His love of teaching and his enthusiasm for helping students is evident to everyone who has ever worked with him.

Jeffrey Will completed his B.S.E.E., M.S.E.E., and Ph.D. degrees from the University of Illinois, Urbana-Champaign, and has been a full-time faculty member in the electrical and computer engineering department at Valparaiso University since August 2001. He teaches courses in senior design, computer architecture, digital signal processing, freshman topics, and circuits laboratories, and is heavily involved in working with students in undergraduate research. Will is also a 2013 recipient of the Illinois-Indiana ASEE Section Outstanding Teacher Award.

Upon coming to Valparaiso University, Will established the Scientific Visualization Laboratory (SVL), a facility dedicated to the use of virtual reality (VR) for undergraduate education. Working exclusively with undergraduate students, Will developed VR hardware and software to be used in undergraduate STEM curricula. Under his direction, his students have developed more than 14 different software packages to be used in such educational fields as electromagnetics, vector calculus, statics, and materials science - all topics where students can benefit from a rich visual experience. Will currently advises 12 undergraduates in scientific visualization projects. Additionally, he is an avid collaborator with colleagues outside the engineering discipline and has demonstrated visualization and virtual-reality applications in psychology, foreign languages, photography, drawing, music, and library science. He is co-author of the textbook Developing Virtual Reality Applications and has published numerous pedagogical articles on the use of virtual reality for teaching. His contributions range from U.S. patents to art exhibits.

Will is active in K-12 outreach efforts, where his virtual-reality system serves as a vehicle to interest students in STEM fields. He has given hundreds of demonstrations of the system to over 1,200 visitors and works closely with local schools, especially those with underserved populations. He is active in partnering with the Valparaiso Society of Women Engineers (SWE) chapter to mentor and provide visit days to middle-school girls. He also has worked with colleagues at Iowa State University to develop the educational program “Boomtown,” with the goal of interesting middle-school girls in computer programming. After working with the SWE chapter closely for the past 10 years, Will was named adviser for the chapter in the fall of 2013.

Will has been an active member of ASEE throughout his professional career, serving as an officer in his local section from 2002-2007 (chair in 2005) and attending and publishing at national and sectional conferences.

Nominated by Doug Tougaw, Valparaiso University
The ASEE President’s Award recognizes those organizations that make the best use of print, broadcast, or electronic media to (a) encourage K-12 students to enter engineering schools and pursue engineering careers and/or (b) influence public opinion and increase recognition of the critical role that engineering plays in today’s technology-driven society. The award is funded by the ASEE Engineering Deans Council and consists of a suitably inscribed plaque that is presented during the ASEE Annual Conference.

Ioannis Miaoulis is recognized by the ASEE President’s Award for his distinguished accomplishments in the use of print, broadcast, and electronic media to enhance engineering understanding and to increase public recognition of the critical role that engineering plays in a technology-driven society.

Originally from Greece, Ioannis (Yannis) N. Miaoulis has been president and director of the Museum of Science, Boston, one of the world’s largest science centers and New England’s most-attended cultural institution, since 2003. He came to the Museum from Tufts University, where he was dean of the School of Engineering. In 2004, Miaoulis led the creation of the museum’s National Center for Technological Literacy® (NCTL®) to enhance knowledge of engineering for people of all ages and to inspire future engineers and scientists. The NCTL’s curricula have reached an estimated 67,726 teachers and 4.8 million students worldwide. In 2011, to transform itself for the 21st century, the museum launched a campaign to raise $250 million by 2015 and has reached nearly $231 million to date. Miaoulis earned bachelor’s and doctorate degrees in mechanical engineering and a master’s in economics at Tufts, receiving a master’s in mechanical engineering from the Massachusetts Institute of Technology. He has published over 100 research papers and holds two patents.

Miaoulis has been honored with the Presidential Young Investigator award, the Allan MacLeod Cormack Award for Excellence in Collaborative Research, the William P. Desmond Award for Outstanding Contributions to Public Education, and Tufts University Alumni Association’s Outstanding Service Award. A 2012 recipient of the Science Club for Girls Catalyst Award, Yannis is a 2011 winner of the ASME (American Society of Mechanical Engineers) Ralph Coats Roe Medal. On the National Museum and Library Services Board from 2006 to 2012, he also has served on the NASA Advisory Council and the NASA Education and Public Outreach Committee, receiving NASA’s Exceptional Public Service Medal in 2009. A former Trustee of WGBH and Wellesley College, Miaoulis has co-chaired the Massachusetts Technology/Engineering Education Advisory Board. He serves on the American Association for the Advancement of Science in Space (CASIS) Board, and was elected to the Tufts University Board of Trustees in 2006.

Nominated by Kenneth F. Galloway, Vanderbilt University
The Robert G. Quinn Award recognizes outstanding contributions in providing and promoting excellence in experimentation and laboratory instruction. The award consists of a $5,000 honorarium and an inscribed plaque.

Robert G. Quinn was a professor of electrical and computer engineering at Drexel University whose accomplishments in establishing a highly successful and innovative engineering curriculum at Drexel University are legendary. 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 other government agencies, business, and industry. His research at Drexel focused on undergraduate curriculum development, where he directed a major educational experiment funded by the National Science Foundation known as E4, or “Enhanced Educational Experience for Engineers.” This highly successful program evolved into the Drexel Engineering Curriculum, and many of its key features were emulated internationally in dozens of universities.

Surendra K. Gupta is recognized by the 2014 Robert G. Quinn Award for outstanding contributions in providing and promoting excellence in laboratory-based education and training, and in creating innovative experiments and measurement techniques in materials testing and characterization in support of teaching and cutting-edge research.

Surendra Gupta received his B.Tech. degree in metallurgical engineering from the Indian Institute of Technology at Kanpur, M.S. degrees in metallurgical engineering and materials science from the University of Notre Dame and in computer science from the Rochester Institute of Technology (RIT), and an M. S. in mechanical engineering and Ph.D. in materials science from the University of Rochester.

Gupta joined RIT in 1981 as a lecturer after spending three years in the electronics industry. He played a foundational role in RIT’s multidisciplinary program in Materials Science & Engineering (MSE) by setting up state-of-the-art equipment for mechanical testing, metallurgy, and x-ray diffraction, and developing several new graduate courses for the MSE program.

Gupta utilizes every opportunity to expose students to cutting-edge technologies used in industry. In 1989, when digital imaging for microscopy became commercially available, he established the Quantitative Imaging Laboratory and introduced it to students in his sophomore materials science course. In 1992, when industrial design houses began using rapid prototyping techniques to evaluate fit, form, and function of product designs, he acquired laser-based stereo-lithography equipment and integrated it in several design courses across two colleges. After seeing an atomic force microscope (AFM) during summer research at the Rome Air Force Laboratory, he obtained an AFM in 1994 to introduce students to AFM and related techniques.

Since 1994, Gupta has been the director of the Advanced Materials Laboratory that has state-of-the-art equipment for optical microscopy, high resolution x-ray diffraction, and scanning-probe microscopies. He has trained many students, and postdoctoral researchers in the use of this equipment to advance education and research in materials science, imaging science, and microelectronic and microsystems engineering.

Gupta has had numerous leadership assignments, including serving on the Academic Senate for six years, and chairing the Institute Effective Teaching Committee for two years. He has been the ASEE Campus Representative since 1987, and has twice won the Zone I Outstanding Campus Representative Award.

Gupta has made noteworthy contributions to the three critical elements of the scholarship of teaching: pedagogy, integration, and application. His contributions were recognized in 1999 by an Outstanding Educator Award from the St. Lawrence Section of ASEE, and the Eisenhart Award for Outstanding Teaching in 2000 – the highest honor for excellence in teaching at RIT. He is also the recipient of an ASME Curriculum Innovation Award in 1996, and a 2013 Million Dollar Principal Investigator Award at RIT.

Nominated by: Harvey J. Palmer, Rochester Institute of Technology
This award is named in honor of William Elgin Wickenden – engineer, educator, philosopher, administrator, and humanitarian. Throughout his distinguished career, he 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 been read by thousands of young engineers and helped them form a sound conception of engineering as a career.

Sponsored by the Journal of Engineering Education editorial review board, the award recognizes the author(s) of the best paper published in the Journal of Engineering Education (JEE), the American Society for Engineering Education’s scholarly research journal. JEE’s editorial review board selects the best paper published during the previous January-to-October publication cycle. The awardee receives a commemorative plaque.


Muhsin Menekse is a research scientist at the Learning Research and Development Center (LRDC) at the University of Pittsburgh. He received his Ph.D. in science education and M.A. in measurement and statistics from Arizona State University (ASU), and his B.S. in physics and education at Bogazici University in Istanbul, Turkey. Menekse’s primary research focus is on higher level reasoning in complex tasks in STEM domains. Specifically, he investigates how classroom activities and learning environments affect conceptual understanding in science and engineering. His second research focus is on verbal interactions in small groups. In particular, he is investigating dialogue patterns that can enhance productive discussions and co-construction of knowledge in both online and face-to-face collaborative learning settings. His third research focus is on metacognition and its implications for learning. He is exploring methods to enhance the student reflection/teacher-feedback cycle in technology-enhanced learning environments. Much of this research focuses on learning processes in real classroom settings. In his current project, Menekse is collaborating with computer scientists to improve undergraduate STEM education by integrating natural language processing with mobile technologies. He has authored manuscripts and chapters on engineering learning, science inquiry, collaborative learning, and argumentation, including publications in the Journal of Engineering Education, Science Education, and the Journal of Science Education and Technology.

Glenda Stump completed her doctoral work in educational psychology with a concentration in learning, along with a certificate in educational technology, at Arizona State University. She is currently the associate director for education research in the Teaching and Learning Laboratory at the Massachusetts Institute of Technology. Her research interests encompass both the science of learning and its measurement, including understanding how factors such as students’ attitudes and beliefs relate to their choice and utilization of learning strategies, their metacognitive behaviors, and ultimately their learning outcomes. Test, survey, and scale development, along with gathering evidence for valid interpretation of results, are also her interests.

Stump’s past research focused primarily on engineering and nursing education. This included work with teams that investigated motivational beliefs, learning strategies, and achievement in engineering students as well as non-science majors enrolled in STEM courses; informal collabora-
Stephen Krause is a full professor and former associate director of the School of Materials at Arizona State University. He received his B.S. degree in materials science and engineering from Northwestern University in 1969, his M.S. degree from Illinois Institute of Technology in 1973, and his Ph.D. degree from the University of Michigan in 1981. During the 1980s, he collaborated in research with the Materials Laboratories at Wright Patterson AFB in helping to develop the world’s highest performance polymer fiber, Zylon. In the 1990’s, he collaborated with researchers at National Institute of Standards and Technology (NIST) in developing the high-performance silicon now found in high speed, low energy consumption computers. He began his research in engineering education in 2000 when he joined the NSF-sponsored Foundation Coalition project, where he co-developed a Materials Concept Inventory and a Chemistry Concept Inventory to assess conceptual knowledge of undergraduates in those fields. Later, he received the Ben Dasher Best Paper in Conference Award at the FIE Conference for his 2008 FIE paper about the impact of the NSF Math-Science Partnership, Project Pathways, on the enhanced classroom skills of local K-12 math and science teachers by the development of professional learning communities.

Krause’s research in engineering education has focused on conceptual change measurement and misconceptions in materials science, and on creating instruments to measure the effectiveness of pedagogy on conceptual change. He has created assessments and surveys to determine the effectiveness of pedagogy in support of student learning and on the personal impact and future value of instruction. In a collaborative TUES grant he is exploring the utility of Web-enabled activities and assessments in diverse settings and the impact on student attitude, learning, and persistence in introductory materials classes. In another NSF EAGER WIDER grant he is examining the effect on student attitude, achievement, and persistence of various factors, including evidence-based instructional practice, faculty beliefs, departmental culture, and student-faculty interactions. A continuing goal of his engineering education research is to foster systemic change through more effective and relevant teaching and learning to develop more capable engineers (and correspondingly better engineering educators and researchers) who are better able to achieve significant societal impact in the United States and global workplace.
Michelene Chi is Foundation Professor in the Mary Lou Fulton Teachers College and the director of the Learning Sciences Institute at Arizona State University. A cognitive science researcher, she received her Ph.D. from Carnegie Mellon University in cognitive psychology, and a B.S. in mathematics. Chi’s overall approach to understanding how students learn is student-centered, focusing on what activities students do that can lead to improved learning. One beneficial learning activity she had proposed earlier is self-explaining, a constructive process that students can undertake even without an instructor’s feedback. Self-explaining has been promoted by the U.S. Department of Education as one of seven evidence-based instructional recommendations. More recently, she proposed the ICAP hypothesis that predicts that the level of student learning is a function of the mode of cognitive engagement activities that students undertake. This ICAP framework guides the design of the study published in JEE that is receiving the Wickenden Award. A second topic of her research examines the origin of scientific misconceptions and how to teach robustly misconceived, emergent kind of processes. A third topic of her research addresses novel ways of delivering instruction. She suggests that tutorial dialogues may be a promising way to deliver online instruction at scale by presenting them as videos for other students to watch. Recently, Chi co-chaired the inaugural Association for Computing Machinery (ACM) Conference on Learning@Scale. Chi has published over 120 papers and has well over 27,000 citations of her work. Her work is funded by the National Science Foundation, the Institute of Education Sciences, and the Spencer Foundation. She was awarded the Chancellor’s Distinguished Research Award by the University of Pittsburgh in 2006, elected into the National Academy of Education in 2010, and, in 2013, received the Sylvia Scribner Award from the American Educational Research Association and the Faculty Achievement Award from Arizona State University.
This award recognizes high-quality papers that are presented at the ASEE Annual Conference. Papers awarded were presented at the Annual Conference the previous year. One outstanding conference paper is selected from the four ASEE zones. The Best Zone Paper Award consists of $1,000. Six outstanding conference papers are selected: one from each of the five ASEE Professional Interest Councils (PICs) and one overall conference paper. The award consists of $1,000 for each PIC paper and $3,000 for the best conference paper.

**BEST ZONE PAPER**

PRESENTED TO: 
Jane L. Lehr, California Polytechnic State University; Helene Finger, California Polytechnic State University; and Beverley Kwang, California Polytechnic State University


**BEST PAPER- PIC I**

PRESENTED TO: 
Gayle Ermer, Calvin College

PAPER: “The Four Pillars of Manufacturing as a Tool for Evaluating Course Content in the Mechanical Concentration of a General Engineering”

**BEST PAPER- PIC II**

PRESENTED TO: 
Darshita Shah, Massachusetts Institute of Technology; Jennifer French, Massachusetts Institute of Technology; Janet Rankin, Massachusetts Institute of Technology; and Lori Breslow, Massachusetts Institute of Technology

PAPER: “Using Video to Tie Engineering Themes to Foundational Concepts”

**BEST PAPER- PIC III**

PRESENTED TO: 
Aimee Brasch, University of Idaho, Moscow; Anne Kern, University of Idaho; Jillian Cadwell, University of Idaho; Laura Laumatia, University of Idaho, Moscow; and Fritz Fielder, University of Idaho, Moscow

PAPER: “How Land Use Change, Changed Culture”

**BEST PAPER- PIC IV**

PRESENTED TO: 
Lorelle Meadows, University of Michigan and Denise Sekaquaptewa, University of Michigan

PAPER: “The Influence of Gender Stereotypes on Role Adoption in Student Teams”

**BEST PAPER- PIC V**

PRESENTED TO: 
Rachelle Reisberg, Northeastern University; Joseph A. Raelin, Northeastern University; Margaret B. Bailey, Rochester Institute of Technology; David L. Whitman, University of Wyoming; Jerry Carl Hamann, University of Wyoming; and Leslie K. Pendleton, Virginia Tech

PAPER: “The Effect of Cooperative Education and Contextual Support on the Retention of Undergraduate Engineering Students”

**BEST CONFERENCE PAPER**

PRESENTED TO: 
Darshita Shah, Massachusetts Institute of Technology; Jennifer French, Massachusetts Institute of Technology; Janet Rankin, Massachusetts Institute of Technology; and Lori Breslow, Massachusetts Institute of Technology

PAPER: “Using Video to Tie Engineering Themes to Foundational Concepts”
ASEE COUNCIL AWARDS

ASEE CORPORATE MEMBER COUNCIL
CMC Excellence in Engineering Education Collaboration Awards

Aerospace Partners for the Advancement of Collaborative Engineering (AerosPACE)
Boeing
Brigham Young University
Georgia Tech
Purdue University
Embry Riddle Aeronautical University

ASEE ENGINEERING RESEARCH COUNCIL
Curtis W. McGraw Research Award
Ellis Meng
University of Southern California
This award, given by each ASEE section, recognizes the outstanding teaching performance of an engineering or engineering technology educator. The award consists of a framed certificate and an appropriate honorarium presented by the local section. The following are this year’s award recipients.

Illinois/Indiana Section ........................................... Mark Budnik  
Valparaiso University

Middle Atlantic Section ........................................... Laurent Simon  
New Jersey Institute of Technology

New England Section ............................................. E. Vagos Hadjimichael  
Fairfield University

North Central Section ............................................ Mary C. Verstraete  
University of Akron

Pacific Northwest Section ...................................... Richard Bankhead  
Highline Community College

Pacific Southwest Section .................................... Behzad Razavi  
University of California, Los Angeles

Southeast Section .................................................. David A. Dampier  
Mississippi State University
ASEE’s Campus Liaison Board initiated this award to recognize those ASEE campus representatives who have demonstrated staunch support for ASEE on their campuses. The award consists of a framed certificate of recognition and is presented at each section’s annual meeting. The following are this year’s award recipients:

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<thead>
<tr>
<th>Section</th>
<th>Name</th>
<th>University</th>
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<tr>
<td>Gulf Southwest Section</td>
<td>Walter W. Buchanan</td>
<td>Texas A&amp;M University</td>
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<td>Illinois/Indiana Section</td>
<td>Thomas Trusty</td>
<td>Trine University</td>
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<td>Middle Atlantic</td>
<td>Brock E. Barry</td>
<td>United States Military Academy</td>
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<td>Midwest Section</td>
<td>Christi Luks</td>
<td>University of Tulsa</td>
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<td>Northeast Section</td>
<td>Kanti Prasad</td>
<td>University of Massachusetts, Lowell</td>
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<td>North Central Section</td>
<td>David Sawyers</td>
<td>Ohio Northern University</td>
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<tr>
<td>Pacific Northwest Section</td>
<td>Matthew Kuhn</td>
<td>University of Portland</td>
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OTHER SECTION AWARDS

GULF SOUTHWEST SECTION

SECTION MILE AWARD
University of Texas, San Antonio

FACULTY BEST PAPER AWARDS

FIRST PLACE
Malay Ghose Hajra
University of New Orleans
PAPER: “Project-based Education on Sustainability Principles for Engineers”

SECOND PLACE
Terrence Chambers
University of Louisiana, Lafayette
PAPER: “Creation of an International Engineering Student Exchange Program”

THIRD PLACE
Jay Porter
Texas A&M University

STUDENT BEST PAPER AWARDS

FIRST PLACE
Tanner Perkins
Texas A&M University

SECOND PLACE
Madeleine Bodin
University of Louisiana, Lafayette
PAPER: “Using Coastal Louisiana to Develop Hydrologic Web-based Learning Modules”

THIRD PLACE
Kristopher Meche
University of Louisiana, Lafayette
PAPER: “Alternative Energy in the Virtual World”

ILLINOIS-INDIANA SECTION

OUTSTANDING SERVICE AWARD
Joanne Lax
Purdue University

OUTSTANDING PAPER AWARD
Denny Davis
Washington State University
PAPER: “Rigorous Design Review for Capstone Design Projects”

MIDDLE ATLANTIC SECTION

BEST PAPER AWARD
Steven Chetcuti, Hans Thomas, and Brent Pafford
United States Military Academy
PAPER: “Flipping the Engineering Classroom”

NORTH CENTRAL SECTION

BEST FACULTY PAPER AWARD

FIRST PLACE
Richard Hill and Kirstie Plantenberg
University of Detroit Mercy
PAPER: “Assessing a Conceptual Approach to Undergraduate Dynamics Instruction”

SECOND PLACE
Paul Penko
Baldwin Wallace University
PAPER: “An Elective Course in Rocketry”

BEST STUDENT PAPER AWARD

FIRST PLACE
H. Leblanc, B. Recker, K. Ross, A. Oberhaus, A. Schnipke, L. Brown, C. Kruczek, and E. Dean
Ohio Northern University
PAPER: “Developing A Customer Appropriate Value Proposition”
SECOND PLACE
Samuel Graham, Brian Dean, Osamah Rawashdeh, Nicholas Dahl, and Andrew Simenauer
Oakland University
PAPER: “Low Cost Bicycle Share Security Solution for Universities”

THIRD PLACE
Zachery Brewer
Ohio Northern University
PAPER: “Tenkering vs. Engineering in K-12 Education”

BEST STUDENT POSTER AWARD
FIRST PLACE
Stearns et al.
Gannon University
PAPER: “Kit Assembly Machine for Mentally Handicapped Employees”

SECOND PLACE
Nate Bishop, Michael Limbird, Branden Rushton, and Sirinivasa Vemuru
Ohio Northern University
PAPER: “Human Anthropometric Processing Unit”

PACIFIC SOUTHWEST SECTION
OUTSTANDING UNIVERSITY TEACHING AWARD
Behzad Razavi
University of California, Los Angeles

OUTSTANDING COMMUNITY COLLEGE EDUCATOR AWARD
M. Elizabeth Rozell
Bakersfield College

ROCKY MOUNTAIN SECTION
BEST PAPER AWARD
Ding Yuan, Nebojsa I. Jaksic, and Jude L. DePalma
Colorado State University, Pueblo
PAPER: “LEGO Mindstorms: EV3 versus NXT 2.0 A Laboratory Study in an Introduction to Engineering Course”

BEST PRESENTATION AWARD
John Murray, Erin Elder, Ryan Bingham, Glen Longhurst, Desmond Penny, and Thad Morton
Southern Utah University
“The Design and Construction of a Tiny House: Small is Beautiful”

SOUTHEAST SECTION
NEW FACULTY RESEARCH AWARD
FIRST PLACE
Treavor H. Boyer
University of Florida

SECOND PLACE
Islam El-adaway
Mississippi State University

OUTSTANDING COMMUNITY COLLEGE EDUCATOR AWARD
John Brocato
Mississippi State University

OUTSTANDING MID-CAREER TEACHING AWARD
Priya Goeser
Armstrong Atlantic State University

OUTSTANDING NEW TEACHER AWARD
Matthew Cooper
North Carolina State University

THOMAS C. EVANS INSTRUCTIONAL PAPER AWARD
Pedro Arce
Tennessee Technological University

ST. LAWRENCE SECTION
OUTSTANDING COMMUNITY COLLEGE EDUCATOR AWARD
Surendra Gupta
Rochester Institute of Technology
**AEROSPACE ENGINEERING DIVISION**

**JOHN LELAND ATWOOD AWARD**

John Valasek  
Professor, Aerospace Engineering Department  
Texas A&M University

This award was established in 1985 in honor of Lee Atwood, a master of aviation and a 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.

**ELECTRICAL ENGINEERING DIVISION**

**FREDERICK EMMONS TERMAN AWARD**

Changzhi Li  
Assistant Professor, Department of Electrical and Computer Engineering  
Texas Tech University

This award is conferred upon an outstanding young electrical engineering educator in recognition of contributions to the profession. The award, established in 1969, is sponsored by the Hewlett-Packard Company and consists of a $4,000 honorarium, a gold-plated medal, a bronze replica, a presentation scroll, and reimbursement of travel expenses for the awardee to attend the ASEE Frontiers in Education Conference, where the award will be presented.

**MECHANICAL ENGINEERING DIVISION**

**RALPH COATS ROE AWARD**

Panos Y. Papalambros  
Distinguished Professor, Department of Mechanical Engineering  
University of Michigan

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.

**NUCLEAR ENGINEERING DIVISION**

**GLENN MURPHY AWARD**

J. Wesley Hines  
Professor and Department Head, Nuclear Engineering Department  
University of Tennessee, Knoxville

This award was established to honor Glenn Murphy in recognition of his many contributions to engineering education in general and to nuclear engineering in particular. This award is bestowed annually upon a distinguished nuclear engineering educator in recognition of notable professional contributions to the teaching of nuclear engineering students. This award is endowed by the Friends of Glenn Murphy, the Edison Electric Institute, and Iowa State University, and consists of a $750 honorarium and a certificate.
OTHER DIVISION AWARDS

BIOMEDICAL ENGINEERING DIVISION

THEO C. PILKINGTON OUTSTANDING EDUCATOR AWARD
Rena Bizios
University of Texas, San Antonio

BIOMEDICAL ENGINEERING TEACHING AWARD
Renata Ramos
Rice University

BEST PAPER AWARD
William H. Guilford and Michael B. Lawrence
University of Virginia
PAPER: “A Course in Biomaterials Taught Using the Socratic Method”

CIVIL ENGINEERING DIVISION

GEORGE K. WADLIN DISTINGUISHED SERVICE AWARD
Kristen L. Sanford Bernhardt
Carnegie Mellon University

GERALD R. SEELEY AWARD
Matthew D. Lovell
Rose-Hulman Institute of Technology
PAPER: “Structural Engineering Practicum: The First Course in a Master’s Program”

STEPHEN J. RESSLER BEST PAPER AWARD
Mary Katherine Watson, Georgia Institute of Technology; Elise M. Barrella, James Madison University; Thomas A. Wall, Caroline R. Noyes, and Michael O. Rodgers, Georgia Institute of Technology
PAPER: “Development and Application of a Sustainable Design Rubric to Evaluate Student Abilities to Incorporate Sustainability into Capstone Design Projects”

COLLEGE/INDUSTRY PARTNERSHIPS DIVISION

2013 CIEC AWARDS

CIEC BEST SESSION AWARD
PRESENTER: Lori Glover
Massachusetts Institute of Technology
MODERATOR: Ranji Vaidyanathan
Oklahoma State University
“IP Issues in Higher Education”

CIEC BEST PRESENTER AWARD
JoZell Johnson
Intel Corporation
“Preparing Students for Working in a Global Environment: An Industry Panel”

CIEC BEST MODERATOR AWARD
Letha Hammon
DuPont
“Preparing Students for Working in a Global Environment: An Industry Panel”

COMPUTING AND INFORMATION TECHNOLOGY DIVISION

BEST PAPER
Rob Elliott
Indiana University-Purdue University
Indianapolis
PAPER: “Analysis of Student Perceptions and Behaviors in a Flipped Classroom Undergraduate Information Technology Course”

COMPUTERS IN EDUCATION DIVISION

JOHN A. CURTIS LECTURE AWARD
Mahnas Jean Mohammadi-Aragh and Christopher B. Williams
Virginia Tech
PAPER: “Student Attention in Unstructured-Use, Computer-Infused Classrooms”

WOODY EVERETT BEST POSTER AWARD
Johné M. Parker and Kassy Moy Lum,
University of Kentucky; Stephen L. Canfield and Sheikh Khaled Ghafoor,
Tennessee Technological University
PAPER: “Work-in-Progress: Using Hardware-based Programming Experiences to Enhance Student Learning in a Senior Feedback Controls Lecture Course”

HARDEN-SIMONS PRIZE
Erik Cheever and Allan Moser
Swarthmore College
PAPER: “Computer Guided Instruction for Creation of Root Locus Plots”

MERL K. MILLER AWARD
Walter W. Schilling, Jr. and Mark J. Sebern
Milwaukee School of Engineering
PAPER: “Teaching Software Engineering: An Active Learning Approach”

ASEE COMPUTERS IN EDUCATION DIVISION SERVICE AWARD
Raymond G. Jacquot
University of Wyoming

COOPERATIVE AND EXPERIENTIAL EDUCATION DIVISION
LOU TAKACS AWARD
Kimberly Demko
GE Aviation

ALVAAH K. BORMAN AWARD
Louise T. Carrese
Rochester Institute of Technology

Roy T. Gregg
University of Alabama

CO-OP STUDENT OF THE YEAR AWARD
Haotian Howard Wang
University of Pittsburgh

CEED INTERN OF THE YEAR AWARD
Steven Zusack
Indiana University-Purdue University, Indianapolis

DIVISION OF EXPERIMENTATION AND LABORATORY-ORIENTED STUDIES (DELOS)
BEST PAPER AWARD
Ernest M. Kim, Thomas F. Schubert, and Frank G. Jacobitz
University of San Diego
PAPER: “Student Peer Teaching in Engineering Laboratory Situations”

EDUCATIONAL RESEARCH & METHODS DIVISION

DISTINGUISHED SERVICE AWARD
Daria Kotys-Schwartz
University of Colorado, Boulder

BEST PAPER AWARD
So Yoon Yoon and P.K. Imbrie, Texas A&M University; Joe J.J. Lin, Purdue University, West Lafayette, and Kenneth Reid, Ohio Northern University
PAPER: “Validation of the Student Attitudinal Success Inventory II for Engineering Students”

ENGINEERING ECONOMY DIVISION

EUGENE L. GRANT AWARD
Eric Dahlgren, Continuum Energy Technologies; Caner Coçmen, Nomis Solutions; Klaus Lackner, Columbia University, Garrett van Ryzin, Columbia Business School
PAPER: “Small Modular Infrastructure” (The Engineering Economist, Vol. 58, No. 4, pages 231-264)

BEST PAPER AWARD
Paul Kauffmann and Joe Wilck
East Carolina University
PAPER: “Relationship of Final Grade and Use of Online Course Materials for an Engineering Economics Course”

ENGINEERING LIBRARIES DIVISION

HOMER I. BERNHARDT DISTINGUISHED SERVICE AWARD
Amy Van Epps
Purdue University Libraries

BEST PUBLICATION AWARD
Patricia Elaine Kirkwood and Necia T. Parker-Gibson
University of Arkansas
PAPER: “Informing Chemical Engineering Decisions with Data, Research, and Government Resources”
BEST PAPER AWARD
Sangarappillai Sivaloganathan and Ali H. Al-Marzouqi
United Arab Emirates University

BEST STUDENT PAPER
Rachel McCord, Cory Hixson, and Lisa D. McNair, Virginia Tech; and Ella Lee Ingram, Rose-Hulman Institute of Technology
PAPER: “Graduate Student and Faculty Member: An Exploration of Career and Personal Decisions”

BEST PAPER AWARD
Victoria Townsend and Jill Urbanic
University of Windsor

BEST PAPER AWARD
Janie Gina Locklear
North Carolina A&T State University
PAPER: “Ms. Hines and the Sick 5th Graders – Making Hands-on Outreach and Learning about the Environment Engaging through the use of Case Stories!”

BEST STUDENT PAPER AWARD
Pamela Lottero-Perdue, Towson University and Elizabeth Parry, North Carolina State University
PAPER: “Perspectives on Failure in the Classroom by Elementary Teachers New to Teaching Engineering”

BEST PAPER
Erika Mosyjowski, Shanna R. Daly, Steve Skerlos, and Adam B. Baker, University of Michigan; Diane L. Peters, Kettering University
PAPER: “The Ph.D. Advising Relationship: Needs of Returning and Direct-Pathway Students”
MECHANICAL ENGINEERING DIVISION

BEST PAPER AWARD
Scott James Reckinger, Brown University
and Shannon Marie Reckinger, Fairfield University
PAPER: “An Interactive Programming Course Model for Mechanical Engineering Students”

MULTIDISCIPLINARY ENGINEERING DIVISION

BEST PAPER AWARD
Harold R. Underwood and Donald George Pratt, Messiah College
PAPER: “Competitive Placement of Engineering Students on Multiyear Project Teams”

SYSTEMS ENGINEERING DIVISION

BEST PAPER AWARD
Richard Sugarman, United States Air Force;
Kellie Schneider and Edward F. Mykytka, University of Dayton
PAPER: “Development of Systems Engineering Course for Multiple Delivery Methods”

WOMEN IN ENGINEERING DIVISION

MARA H. WASBURN APPRENTICE EDUCATOR GRANT
Jan DeWaters
Clarkson University

Mary Katherine Watson
The Citadel

BEST PAPER AWARD
Kerry Meyers, Youngstown State University;
Leo H. McWilliams and Catherine F. Pieronek, University of Notre Dame
PAPER: “How Students’ Informal Experiences Shape Their Views of Engineering and Affect their Plans for Professional Persistence”
<p>| ISADORE T. DAVIS AWARD (First presented in 2011) | 2011 | Dharma Raj Veeramani | 2012 | Mohammad Noori |
| NATIONAL ENGINEERING ECONOMY TEACHING EXCELLENCE AWARD (First presented in 2010) | 2010 | Gerald A. Fleischer | 2012 | Richard Bernhard |</p>
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<tr>
<th>Year</th>
<th>Award Type</th>
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<tr>
<td>2004</td>
<td>Robert G. Quinn Award</td>
<td>Charles Ume</td>
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<td>2005</td>
<td>Not presented</td>
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<td>2006</td>
<td>Stephanie Farrell</td>
<td>Ann Saterbak</td>
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<td>2007</td>
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<td>2008</td>
<td>Jay Porter</td>
<td>Ahmed Rubaai</td>
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<td>2009</td>
<td>Not Presented</td>
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<td>2011</td>
<td>Thomas F. Schubert, Jr.</td>
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<th>Year</th>
<th>William Elgin Wickenden Award</th>
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<tr>
<td>2004</td>
<td>Gary S. May and Daryl E. Chubin</td>
<td>Michelle J. Johnson and Sheri D. Sheppard</td>
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<td>2005</td>
<td>Barbara M. Olds, Barbara M. Moskal, and Ronald L. Miller</td>
<td>Robert J. Roselli and Sean P. Brophy</td>
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<td>2006</td>
<td>Cynthia Atman, Robin Adams, Monica Cardella, Jennifer Turns, Susan Mosborg, and Jason Saleem</td>
<td>Matthew W. Ohland, Sheri D. Sheppard, Gary Lichtenstein, Ozgur Eris, Debbie Chachra, and Richard A. Layton</td>
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<td>2009</td>
<td>Deborah A. Trytten, Anna Wong Lowe, and Susan E. Walden</td>
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ASEE Annual Conference & Exposition
Indiana Convention Center & Lucas Oil Stadium
Indianapolis, Indiana
June 16, 2014

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