ASEE 2013 Annual Awards Reception & Banquet

Georgia World Congress Center
Thomas Murphy Ballroom
Atlanta, Georgia
June 26, 2013

Reception
7:00 – 7:30 p.m.

Awards Banquet
7:30 – 9:30 p.m.

ASEE thanks Dassault Systèmes for sponsoring the 2013 ASEE Awards Reception and Banquet
ASEE ANNUAL CONFERENCE & EXPOSITION

2013 Annual Awards Reception & Banquet
Georgia World Congress Center
Thomas Murphy Ballroom
Atlanta, Georgia
June 26, 2013

OPENING REMARKS AND INTRODUCTION
Walter W. Buchanan
2012 - 2013 ASEE President

PRESENTATION OF PLAQUES TO OUTGOING MEMBERS OF THE ASEE BOARD OF DIRECTORS
Walter W. Buchanan

PRESENTATION OF SOCIETY AWARDS
Outstanding Zone Campus Representatives
ASEE Fellow Member Honorees

BENJAMIN GARVER LAMME AWARD
Nicholas A. Peppas

PRESENTATION OF NATIONAL AWARDS

Frederick J. Berger Award
Marilyn Dyrud

Chester F. Carlson Award
Timothy J. Anderson

Isadore T. Davis Award
Ramulu Mamidala

Clement J. Freund Award
Kenneth C. Porteous

John L. Imhoff Award
Mario Beruvides

Sharon A. Keillor Award
Teri Reed-Rhoads

James H. McGraw Award
Frank Hart

Fred Merryfield Design Award
Harry Dankowicz

National Outstanding Teaching Award
Yacob Astatke

William Elgin Wickenden Award
Deborah A. Trytten, Anna Wong Lowe, and Susan E. Walden

ASEE Annual Conference Best Paper Awards

CLOSING CEREMONIES

Acknowledgements.................................................................................................................. Walter W. Buchanan

Passing of the Official Gavel to new ASEE President Kenneth F. Galloway......................... Walter W. Buchanan

Presentation of Gift of Appreciation to Retiring ASEE President Walter W. Buchanan .......... Kenneth F. Galloway

Presidential Remarks................................................................................................................ Kenneth F. Galloway

Recognition of Continuing Members of the ASEE Board of Directors.................................. Kenneth F. Galloway

Presentation of Board Member Pins to Incoming Members of the ASEE Board of Directors.......................................................................................................................... Kenneth F. Galloway

Resolution of Appreciation...................................................................................................... Nicholas J. Altiero

Closing Declaration.................................................................................................................... Kenneth F. Galloway
OUTSTANDING ZONE CAMPUS REPRESENTATIVE AWARD

This award was established to honor outstanding Zone Campus Representatives. Each award winner receives a plaque.

ZONE I
Surendra Gupta
Rochester Institute of Technology

ZONE II
Christopher J. Rowe
Vanderbilt University

ZONE III
Kevin Drees
Oklahoma State University

ZONE IV
David Lanning
Embry-Riddle Aeronautical University, Prescott

PAST WINNERS

1980 J. Burgess, Durward Huffman, L. Greenfield, Richard Noble
1981 N. Hsu, John Lucey, G. Trammell
1982 B. Basore, James Moore, M. Mushala
1984 Robert Ellson, Ronald Barr, Anthony Rigas
1986 K. Mortimer, Charles Bissey, D. Miller
1987 J.N. Clausen, Gerald S. Jakubowski
1988 D. Gehmlich, Ronald Barr, Thomas Weber
1989 Alan Lane, Thomas Mulinazzi, J.G. LoCascio, Alexander Czeto
1990 Richard Culver, A.R. Mechanical, H.N. Wien, Larry Pleiman
1991 Thadeus Wisz, John Uhran, R.E. Zulinski
1992 S. Sathisan
1993 C. Stewart Slater, C.S. Larson, D.L. Elfert, Edward Larson
1994 Charles Spiteri, Seyed Mousavinezhad, Jon Jensen, Ronald Terry
1995 Surendra K. Gupta, Paul Plotkowski, Richard Lewis, Habib Sadid
1996 Dennis A. Silage, Cristina Amon, Richard Marleau, Paul Rainey
1997 Col. Thomas A. Lenox, Kenneth P. Brannan, Amir Karimi, David E. Westler
1998 William C. Beston, Jr., John H. Darnell, Ravi Pendse, Nikos J. Mourtos
1999 Deran Hanesian, John J. Uhran, Jr., John A. Weese, Paul E. Rainey
2000 Kanti Prasad, Hugh Jack, Ronald E. Barr, Nikos J. Mourtos
2001 Velio Marsocci, Charles Knight, Marilyn A. Dyrud
2002 Stephanie Farrell, Paul Lam, Sudhir I. Mehta, Allen Plotkin
2005 Kanti Prasad, Sandra A. Yost, Troy F. Henson
2006 Paul Botosani, Kevin Bower, Charles McIntyre
2007 Harry Hess, Donald P. Visco, Christi L. Patton Luks, Marilyn Dyrud
2008 Susan McCahan, Kevin C. Bower, Walter W. Buchanan
2009 Robert Brooks, Paul Lam, Raju Dandu, Steve Beyerlein
2010 George Sutherland, John Brocato, Walter W. Buchanan, Craig Johnson
2011 Navarun Gupta, J. P. Mohsen, Steven Hietpas, Amir Rezaei
2012 Kanti Prasad, Larry G. Richards, Walter W. Buchanan, Agnieszka Miguel
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.

**STEPHANIE G. ADAMS**
Department Head and Professor
Engineering Education
Virginia Tech
Nominated by Bevlee A. Watford, Virginia Tech

**MAUREEN A. BARCIC**
Director, Cooperative Education
University of Pittsburgh
Nominated by Patricia Fox, Indiana University/Purdue University, Indianapolis

**THEODORE J. BRANOFF**
Associate Professor
Mathematics, Science & Technology Education
North Carolina State University
Nominated by Frank M. Croft, Ohio State University

**JENNA P. CARPENTER**
Associate Dean, Administration and Strategic Initiatives
Louisiana Tech University
Nominated by David E. Hall, Louisiana Tech University

**CYNTHIA FINELLI**
Director, CRLT-Engineering
University of Michigan
Nominated by Cynthia J. Atman, University of Washington

**AMIR KARIMI**
Associate Dean of Undergraduate Studies
The University of Texas at San Antonio
Nominated by Ronald E. Barr, University of Texas, Austin

**SUSAN KEMNITZER**
Deputy Division Director
Engineering Education and Centers Division
National Science Foundation
Nominated by Maura J. Borrego, National Science Foundation

**SUSAN M. LORD**
Professor and Coordinator
Electrical Engineering Program
University of San Diego
Nominated by Matthew W. Ohland, Purdue University, West Lafayette

**JESSICA O. MATSON**
Professor
Department of Industrial Engineering
Tennessee Technological University
Nominated by Kim LaScola Needy, University of Arkansas

**KANTI PRASAD**
Professor
Electrical and Computer Engineering Department
University of Massachusetts-Lowell
Nominated by John A. Orr, Worcester Polytechnic Institute

**DAVID F. RADCLIFFE**
Professor, Engineering Education
Purdue University, West Lafayette
Nominated by Monica Farmer Cox, Purdue University, West Lafayette

**DAVID L. WHITMAN**
Professor
Department of Electrical and Computer Engineering
University of Wyoming
Nominated by Raymond G. Jacquot, University of Wyoming
Nicholas A. Peppas is recognized for his profound educational contributions to biomedical systems, bionanotechnology, biomolecular sciences and engineering, and biomedical engineering education over the past 30 years, and for providing profound insight into numerous engineering processes and applications leading to nanoscale analysis, design and development of new biomaterials and medical devices, including artificial vocal cords, contact lenses, linings for artificial hearts, artificial cartilage, a wide range of drug delivery devices, and the development of commercialized oral protein delivery systems.

NICHOLAS A. PEPPIAS
Fletcher Stuckey Pratt Chair in Engineering Chair, Biomedical Engineering Dept. The University of Texas at Austin

Peppas is also Director of the Center on Biomaterials, Drug Delivery, and Bionanotechnology and professor of biomedical engineering, chemical engineering and pharmacy at The University of Texas at Austin. He is a leading authority in biomaterials, biopolymers, nanotechnology and biomedical, chemical and pharmaceutical engineering. Over the past 35 years he has set the fundamentals and rational design of drug delivery systems. In 2012 he received the Founders Award of the National Academy of Engineering (NAE), the highest recognition of the Academy. Peppas is a member of the NAE, the Institute of Medicine, the National Academy of France, the Royal Academy of Spain, and the Academy of Texas. He is also a world leader in education of chemical and biomedical engineers. He has taught these subjects at Purdue and the University of Texas and has received 11 departmental, college or university-wide teaching awards. At Purdue, he designed and taught 16 new undergraduate and graduate courses over 27 years. While at the University of Texas at Austin (UT), he taught 7 new courses in 10 years. He is a recipient of ASEE’s Western Electric Fund Award (1980), Curtis McGraw Award (1988), George Westinghouse Award (1992), General Electric Senior Research Award (2000) and Dow Chemical Lectureship Award (2006). In 2008, he was elected an ASEE Fellow. He also served as President of the International Union of Societies of Biomaterials Science and Engineering, Chair-elect of the Engineering Section of the American Association for the Advancement of Science (AAAS), and Past-Chair of the Council of Biomedical Engineering Chairs. Previously, he served as President of SFB and the Controlled Release Society. For his research he has been recognized with awards from the American Institute of Chemical Engineers (AIChE) (Founders Award, William Walker Award, Institute Lecture, Jay Bailey Award, Bioengineering Award, Materials Award), the Biomedical Engineering Society (Distinguished Scientist Award), the American Institute of Medical and Biological Engineering (AIMBE) (Galletti Award), the Society for Biomaterials (Founders, Clemson and Hall Awards), and other societies. In 2008, AIChE named him as one of the One Hundred Chemical Engineers of the Modern Era. He is also a fellow of AAAS, AIChE, APS, ACS, MRS, SFB, BMES, AIMBE, CRS, and AAPS. He has supervised the research of 95 Ph.D.s and about 180 postdocs and graduate students. Peppas holds a Dipl. Eng. from the National Technological University of Athens (1971), a Sc.D. from Massachusetts Institute of Technology (1973), and honorary doctorates from the Universities of Ghent, Parma, Athens and Ljubljana.

Nominated by Ali Khademhosseini, Harvard University
Marilyn Dyrud has been a member of ASEE since 1983. She received her B.A. from the University of the Pacific and her M.A. and Ph.D. from Purdue University. She has taught at Oregon Institute of Technology for her entire career.

She has served ASEE in varying capacities over the years: at the section level, she has been newsletter editor, campus representative, conference chair, and section chair; at the zone level, she served as Zone IV chair; and at the national level, she currently chairs the Engineering Ethics Division, is a member at-large on the Engineering Technology Division’s Executive Committee, and is communications editor for the Journal of Engineering Technology. She has also served on ASEE’s Board of Directors and was active on a number of ad hoc committees, including the Plagiarism Task Force and the committee that revised the society’s ethics statement. In addition, she is a regular conference presenter, reviewer, and moderator and has compiled the annual “Engineering Technology Education” bibliography for more than 25 years.

Her research interests are eclectic and involve those topics that merge engineering, technology, and the liberal arts, especially ethics. She particularly enjoys investigating historical cases that have modern analogs and presented an NSPE webinar in 2012 on that topic.

Her teaching career has been similarly eclectic: tenured in the Communication Department, she teaches courses in business and technical writing, rhetoric, and a number of specialized classes in technical communication. But her teaching also included classes in ethics and one course that examines technology and ethics, “Business, Engineering, and the Holocaust.”

She has received several awards from ASEE, including Outstanding Campus Representative, Section Outstanding Campus Representative, and Zone Outstanding Campus Representative. In 2008, she was named ASEE fellow, and in 2010 she received the James H. McGraw Award.

In addition to ASEE, she is active in the Association for Business Communication (ABC), serving as a regional vice-president, chair of the Teaching Committee, and a section editor for Business Communication Quarterly. She received ABC’s Distinguished Member Award in 2006 and the Spirit of ABC Award in 2012. She is also active in the Association for Practical & Professional Ethics as an Ethics Bowl moderator, a presenter, and proceedings editor.

Nominated by Ronald E. Land, Pennsylvania State University, New Kensington
The Chester F. Carlson Award is presented annually to an individual innovator in engineering education who, by motivation and ability to extend beyond the accepted tradition, has made a significant contribution to the profession. The award is sponsored by the Xerox Corporation and consists of a $1,000 honorarium and a plaque.

Chester F. Carlson is noted for his invention of xerography, the process of dry copying using electrostatic charges to transfer printing halftones to paper. In 1944, he demonstrated his technique to Battelle Memorial Institute, which undertook the development of the process. Fifteen years later, the first office copier was introduced by Haloid Xerox.

Timothy J. Anderson is recognized for his innovative workshops for new and prospective engineering faculty development. Through direct coverage of new faculty issues, use of group activities, reflection, and real examples to reinforce guiding principles, participant self-assessment of overall career goals accompanied with planning, and conveying value for diversity, this workshop has helped a significant number of new engineering faculty to develop successful and rewarding careers.

Anderson received his B.S. degree in chemical engineering from Iowa State University and his M.S. and Ph.D. degrees from the University of California, Berkeley. He joined the Chemical Engineering Department at the University of Florida in 1978, served as chair from 1991-2003, and as Associate Dean of Research and Graduate Programs in the College of Engineering until 2009. He then directed the Florida Energy Systems Consortium, which consists of the 11 State of Florida universities. He holds the rank of Distinguished Professor and recently assumed the Dean of Engineering position at the University of Massachusetts, Amherst.

An ASEE fellow, Anderson has long been active in engineering education. He is editor of Chemical Engineering Education and has over 80 publications and presentations in engineering education research to his credit. He served as director of the National Science Foundation’s SUCCEED Engineering Education Coalition until its completion in 2003. This coalition of 8 colleges of engineering in the southeastern U.S. was an incubator of educational innovations whose mission was to effect systemic change in undergraduate engineering education. Anderson is a recipient of the Warren K. Lewis Award for Chemical Engineering Education (AIChE), ConocoPhillips Lectureship Award, Benjamin J. Dasher Award, and Union Carbide Lectureship Award. He has offered a workshop on career development for new faculty to more than 1,500 people over the past 10 years.

Anderson’s discipline research includes the deposition of advanced electronic and photonic materials. In particular, his group has active programs in the growth of CuIn_x Ga_{1-x}Se_2 absorbers for photovoltaics, group III nitrides for solid state lighting applications, and barrier materials for Cu metallization. Anderson has been recognized for his research accomplishments through several awards, including the AIChE Charles M. A. Stine Award, the California Institute of Technology’s W.N. Lacey Lectureship, the Professional Achievement Citation in Engineering Award from Iowa State University, the Michigan/Michigan State Joint Lectureship, and the DOE Research Partnership Award. He also spent a sabbatical year at the University of Grenoble as a Fulbright Senior Research Scholar. His group is credited with over 230 publications in his discipline research and he has supervised over 60 Ph.D. graduates. Anderson is the inaugural editor-in-chief of the IEEE Journal of Photovoltaics, inaugural Associate Editor (Solar Energy) of WIREs: Energy and Environment, member of the editorial advisory board of the journal Energy Systems, and is a fellow of the American Institute of Chemical Engineers (AIChE).

Nominated by Jennifer Curtis, University of Florida-Gainesville
Mamidala received a B.E. in mechanical engineering with distinction from Osmania University, India; M.Tech in production engineering from the Indian Institute of Technology, Delhi; and a Ph.D. from the University of Washington (UW). He has been a faculty member in mechanical engineering since 1982, and adjunct professor in Industrial and Systems Engineering and Materials Science and Engineering. Over the past 29 years, he has been a devoted mentor, educator, and researcher. He established and directed two graduate educational programs and developed a certificate program in composites tooling and manufacturing. His exemplary collaborative efforts motivated working engineers to pursue doctoral studies, and he is a leader in using emerging technologies in distance education to reach non-traditional students.

Mamidala’s research interests reflect the multi-disciplinary nature of materials, mechanics and manufacturing engineering, and primarily focus on aircraft materials and structures. He has very successful research programs in fracture mechanics, fatigue and manufacturing engineering. His research has been supported by the National Science Foundation, the Air Force Office of Scientific Research, Boeing, GE Super Abrasives, Paccar, TRW, Flow International, Quest, Electro Impact, Kyocera, Pacific Northwest Labs, McDonnell Douglas, and the Puget Sound Naval Shipyard. He is an international expert on the machining and surface integrity of composite materials and structures. He received the NSF Presidential Young Investigator Award and the Technology Award from Waterjet Technology Association. He has published more than 300 technical papers in refereed journals and conference proceedings, edited five ASME Symposium Proceedings and co-edited a book, Machining of Ceramics and Composites. He is one of the founding members of Machining Science and Technology Journal and serves as a member of the editorial boards of five other scientific journals. He is a Fellow of ASM, ASME, SEM and SME.

Mamidala, who has supervised more than 200 graduate students, was awarded the Outstanding Teacher in the College of Engineering Award (1985-86) and was ranked among the top 10 professors at the University of Washington by graduating students in the TYEE yearbook (1986). He was awarded the ASM-IIM International Lecture-ship Award (1985-86), SAE’s Ralph R. Teetor Educational Award (1987), ASEE’s AT&T Foundation Award for Excellence in Instruction of Engineering Students (1989); and the Faculty Excellence Award from the UW Minority Science & Engineering Program (1991). His efforts to foster university-industry collaboration have been recognized with the “Academic Engineer of the Year” Award (1994) from the Puget Sound Engineering Council, Washington, and an Ed Wells Summer Faculty Fellowship from Boeing (1997). For his excellence in online teaching and innovation, he was awarded the 2004 R1.edu Award, and for his contributions to distance education, he won the 2012 UW Distinguished Contribution to Life-Long Learning Award.

Nominated by Santosh Devasia, University of Washington
Kenneth C. Porteous is recognized for his major accomplishments in cooperative education. He delivered a quality program for 25 years that responded to the needs of students and employers while meeting national accreditation standards. He proactively solicited and subsequently enhanced employer participation to provide students with opportunities to experience a co-op education. He expanded the co-op program from 150 students (1985) to 1,400 (2012), reflecting the positive experiences realized by students and employers. Annual co-op placement rates frequently exceeded 95 percent, independent of economic conditions. He strongly promoted co-op education within the university and nationally.

Porteous received his B.Eng. degree in chemical engineering with distinction from McGill University (1964), and his M.Ch.E. (1969) and Ph.D. degree in chemical engineering from the University of Delaware (1971). His professional experience includes serving as professor of chemical engineering at the University of Alberta, where he teaches engineering economy, manages the Engineering Co-op Program, and conducts academic assessment of all undergraduate students (1985-present). Previously, he served as Director of Corporate Planning and Information Services at Syncrude Canada, where he conducted economic evaluation of proposed capital projects, developed corporate five-year plans, and delivered reliable and cost-effective information services (1980-1985). Prior to that, he served as Research Engineer and Manager of Research Programs at Syncrude Canada (1971-1980).

While working within industry, he was responsible for making significant improvements in plant operations resulting from research and development, and developed a corporate planning process to deliver five-year plans with defined resources and deliverables. Within academia, he co-authored a Canadian engineering economics textbook, and collaborated with the School of Business in the creation of a combined M.B.A./M.Eng. degree. He automated the academic status evaluation process and the generation of academic standing letters, revised the faculty’s academic regulations to tighten rules and improve clarity, and automated the process for second-year admissions.

His contributions to cooperative education include expanding the Engineering Co-op Program at the University of Alberta from 150 students in 1985 to 1,400 in 2012. He increased corresponding employer participation from approximately 50 to over 300 and improved placement rates of 90-plus percent and frequently 95-plus percent. He adapted a commercial recruitment management system so recruitment could be done electronically. He obtained program accreditation from the Canadian Association for Co-operative Education starting in 1987. Porteous added an Engineering Employment Centre to provide undergraduate and graduate students and alumni access to summer and permanent engineering employment positions. The University of Alberta is a preferred supplier of co-op and traditional students and graduates to most major engineering employers in western Canada.

Porteous is a member of the governing council of the Professional Engineers and Geoscientists of Alberta. He is a former President of the Canadian Society for Chemical Engineering and a member of the Accreditation Council of the Canadian Association for Co-operative Education. He is a Fellow of the Canadian Society for Chemical Engineering, Engineering Institute of Canada, and Engineers Canada.

Nominated by Ming J. Zuo, University of Alberta
Mario Beruvides is a nationally and internationally known engineering educator, with over 220 refereed publications. His work, both in the classroom and in the scholarship of teaching and learning, has earned him numerous teaching awards. He has received 13 educational research contracts, graduating 25 Ph.D. and 10 M.S. students—two of whom have received the American Society for Engineering Management (ASEM) Best Dissertation Awards. At Texas Tech, he created M.S. and Ph.D. degree programs in Systems and Engineering Management, successfully offering them both on-campus and by distance. He was instrumental in developing international dual M.S. and Ph.D. programs with Instituto Tecnológico de Estudios Superiores de Monterrey and Universidad de las Americas.

Beruvides is AT&T Professor of Industrial Engineering at Texas Tech University (TTU) and a registered professional engineer in Texas. He received a Ph.D. in Industrial & Systems Engineering from Virginia Tech and an M.S.I.E and B.S. in mechanical engineering from the University of Miami. He has U.S. and international design patents and over 220 publications in refereed journals and technical proceedings. He has developed a national and international reputation in engineering education. His work in the classroom and the scholarship of teaching and learning has earned him numerous teaching awards, including Texas Tech’s Most Influential Faculty Award (2012), Tau Beta Pi Texas Tech Chapter Outstanding Professor Award (2006); Charles L. Burford Faculty Teaching Award (2001); Ex-Student Association New Faculty Award (1998); Halliburton Award for Teaching Excellence (1996); Outstanding Industrial Engineering Professor Award (1994); and was selected to TTU’s Teaching Academy (2004). His graduates have obtained research, teaching, or managerial positions at AT&T Bell Labs, Dell Computer Laboratories, Searle Center for Teaching Excellence at Northwestern University, Old Dominion University, Stevens Institute of Technology, Instituto Tecnológico de Monterrey, Universidad de Nuevo Leon and Helwan University in Egypt, among others. His students have served as Department Chairs (Oklahoma State University & Kung Shan Institute of Technology – Taiwan) as well as a college president (Texas State Technical College).

Beruvides has been a member of ASEE since 1993 and coordinator for the ASEM Annual Conference Student Best Paper Contest since 1996. At TTU, he has served on the Distance Learning Council and the Graduate Dean’s Task Force on Strategic Planning for Graduate Education. He also served as advisor to the student chapters of Tau Beta Pi and the Society of Hispanic Engineers, and was a founding advisor to TTU’s chapter for Engineer’s Without Borders. Beruvides wrote the proposals for the M.S. and Ph.D. in Systems and Engineering Management and was instrumental in seeing them through the Texas Higher Education Coordinating Board approval process. Both degrees are offered on and off campus. He has been a leader in distance education at TTU. He was also part of the group that developed and implemented the dual M.S. and Ph.D. degree programs between TTU and the Instituto Tecnológico de Monterrey.

Nominated by Patrick E. Patterson, Texas Tech University
Reed-Rhoads is also Assistant Vice Chancellor of Academic Affairs for Texas A&M University System and Assistant Agency Director for Workforce Development at the Texas A&M Engineering Experiment Station. She helped establish the scholarly foundation for engineering education as an academic discipline through coauthorship of the landmark 2006 JEE special reports, “The National Engineering Education Research Colloquies” and “The Research Agenda for the New Discipline of Engineering Education.” Her teaching interests include statistics, interdisciplinary and introductory engineering, diversity, and leadership. Her research interests include statistics education, concept inventory development, assessment and evaluation of learning and programs, recruitment and retention, diversity, and equity. She has received funding from the National Science Foundation, the U.S. Department of Education, and various private foundations and industry.

She is a member and fellow of ASEE, and a member of the Institute of Electronics and Electrical Engineers, the Society of Petroleum Engineers, the Institute of Industrial Engineers, and the American Society for Quality. She serves as an ABET Engineering Accreditation Council evaluator for ASEE, is co-chair of the Undergraduate Experience Council, and serve on the Diversity Committee. Reed-Rhoads served as a reviewer of the U.S. National Academy of Engineering’s (NAE) 2008 report, “Changing the Conversation: Messages for Improving Public Understanding of Engineering,” and 2010 report, “Standards for K-12 Engineering Education?” She was an invited participant in NAE’s Committee on Curriculum Reform and the NAE workshop, Curriculum: Understanding the Design Space and Exploiting Opportunities. She has received a number of professional honors, including the ASEE Outstanding Service Award from the ERM Division (2008), Committee on Institutional Cooperation Academic Leadership Program fellow (2007-2008), and Purdue University’s One Brick Higher Award (2012), one of Purdue’s highest honors given by the university president.

Reed-Rhoads received her B.S. degree in petroleum engineering from the University of Oklahoma and spent seven years in the petroleum industry, during which time she earned her M.B.A. degree. She subsequently received her Ph.D. degree in industrial engineering from Arizona State University.
Frank Hart served through the ranks at Bluefield State College (BSC) School of Engineering and Computer Science, from assistant professor to professor in civil engineering technology with release times to serve in other one-year administrative assignments. He applied experiences as a faculty member and administrator to make his own clearly discernible contributions to engineering technology education. The school is recognized for its cooperative relationships with industry, graduate accomplishments, and industry contributions to program development.

As a professor, Hart is recognized by colleagues, students, and graduates for competence as a professional engineer, professional surveyor and for practice-oriented lectures and real laboratory experiences in geotechnics, geomatics, and surface movements. The college honored him with the BSC “Outstanding Faculty Award,” the “Russell Cousins Excellence in Teaching Award,” and with an endowed scholarship in his name.

As a researcher, he personifies the Yogi Berra observation that the difference between theory and practice is much smaller in theory than in practice. With that mindset, he served as president of the Center for Applied Research and Technology, Inc. (CART) at BSC (2003-2008). CART evolved and developed under his guidance to bring a spirit of competition and cooperative ingenuity to industry through applied research, technology transfer, unmanned systems development, and web solutions. CART was semi-finalist in the 2005 and 2007 DARPA Grand Challenges.

Hart served as president and as the USA presidium member for the International Society for Mine Surveying, president of the West Virginia Society of Professional Surveyors, and chair of the ASEE Engineering Technology Council. His involvement in engineering technology accreditation includes chairing the Engineering Technology Accreditation Commission (ETAC) of ABET and serving on several “change agent” committees. Currently, he is Adjunct Accreditation Director for TAC-ABET.

Nominated by Bruce V. Mutter, Bluefield State College
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 of CH2M Hill.

Harry Dankowicz is recognized for his authorship and innovative use of technology and software in engineering design education; for his commitment to inspiring his students to achieve beyond their own expectations and to apply and integrate their knowledge on realistic design problems; for his dedication to the success of his students and their understanding of the value of life-long learning; and for his tireless efforts to promote training in and application of advanced engineering design with emphasis on system dynamics within his professional community and to the surrounding society.

Harry Dankowicz
Professor, Mechanical Science and Engineering Department
University of Illinois, Urbana-Champaign

Dankowicz received his M.Sc. in Engineering Physics (1991) from KTH Royal Institute of Technology in Stockholm, Sweden, and a Ph.D. in Theoretical and Applied Mechanics (1995) from Cornell University. Following post-doctoral and research associate appointments at KTH between 1995 and 1999, he joined the Department of Engineering Science and Mechanics at Virginia Tech, where he remained until 2005. He is a recipient of several prestigious faculty career awards, including a Junior Investigator Grant from the Swedish Foundation for Strategic Research, and a CAREER Award and a PECASE Award from the National Science Foundation. He is a recipient of the Gunnar Wallquist Medal from KTH (1992), the W.S. “Pete” White Innovation in Engineering Education Award from Virginia Tech (2004), and the Collins Award for Innovative Teaching from the University of Illinois (2012). Dankowicz is author of an undergraduate textbook on multibody mechanics and visualization, a graduate-level textbook on computational methods of parameter continuation, and a research monograph on chaotic dynamics in Hamiltonian systems. He is co-creator of MAMBO, an educational computer-algebra, simulation, and animation tool for modeling and analysis of multibody system dynamics, and of a computational platform for investigating the parameter dependence of solutions to nonlinear differential equations. He conducts dynamical systems research at the intersection of engineering, math and physics. This work involves studying a wide range of complex systems that are governed by differential equations and learning the behavior of those systems through theory and experiments. In collaboration with a large number of undergraduate and graduate students, he has contributed to the development of computer-aided hardware and software for characterizing spinal deformity in children with idiopathic scoliosis, as well as shaping the implants used in surgery, and to the design of self-calibrating mass-flow sensors for agricultural harvesters. He was the founding co-chair of the first ASME Biennial International Conference on Dynamics for Design in Chicago, Illinois in 2012; served as the Technical Program Co-Chair for the 2009 and 2011 ASME International Design Engineering Technical Conferences & Computers and Information in Engineering Conference (IDETC/CIE); and is General Conference Co-Chair for the 2013 IDETC/CIE. He serves as Editor of Transactions of the ASME, Applied Mechanics Reviews, and is a Fellow of ASME.

Nominated by Placid M. Ferreira, University of Illinois, Urbana-Champaign
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.

Yacob Astatke is recognized as an innovator in the education of minority engineers. In the last fifteen years, he has contributed to numerous curricular innovations in his classroom, such as active learning, project-based learning, and the use of technology to enhance student engagement. His innovations have led to the implementation of the first completely online undergraduate electrical and computer engineering program in the State of Maryland. He continues to work towards the professional development and preparation of students for future engineering challenges, both at the national and international levels.

Yacob Astatke
Associate Chair
Electrical and Computer Engineering Department
Morgan State University

Astatke completed both his Doctor of Engineering and B.S.E.E. degrees from Morgan State University (MSU) and his M.S.E.E. from Johns Hopkins University. He has been a full-time faculty member in the Electrical and Computer Engineering (ECE) Department at MSU since August 1994 and currently serves as associate chair for Undergraduate Studies. He is a recipient of the ASEE Middle Atlantic Section’s Distinguished Teacher Award (2012). He teaches courses in both analog and digital electronic circuit design and instrumentation, with a focus on wireless communication. He has more than 15 years’ experience in the development and delivery of synchronous and asynchronous web-based course supplements for electrical engineering courses. He has played a leading role in the development and implementation of the first completely online undergraduate ECE program in the State of Maryland.

Astatke has published over 40 papers and presented his research results at regional, national and international conferences. He also runs several exciting summer camps geared towards middle school, high school, and community college students to expose and increase their interest in pursuing science technology engineering and mathematics (STEM) fields. He is founder and director of the “Foundations of Mathematics” (FOM) summer program. During the past 13 years, the FOM online math course has been offered free of charge and has resulted in improved math performance and course placement of about 300 freshman engineering students at MSU.

Astatke has travelled to Ethiopia for the past 10 years to teach graduate courses in communications, and provide training on engineering pedagogy. He has facilitated the implementation of the Mobile Studio Technology and pedagogy in the ECE departments of five universities in Ethiopia. The new approach has greatly improved education and access to hands-on laboratory experimentation of ECE students at the participating universities. He also facilitated the donation of 70 Mobile Studio boards, 25 laptop computers and other laboratory equipment to five universities in Ethiopia through the generous support of Analog Devices Inc (ADI) and Innovative STEM Solutions LLC. He is currently working with the International Federation of Engineering Education Societies (IFeES) and Global Engineering Deans’ Council (GEDC) to organize the 2013 African Engineering Education Association (AEEA) conference in Lagos, Nigeria and to help establish the first Engineering Deans Council for Africa.

YACOB ASTATKE
Associate Chair
Electrical and Computer Engineering Department
Morgan State University

Nominated by Craig J. Scott, Morgan State University
TRIYTTEN received a B.A. degree in physics and mathematics from Albion College in Albion, Michigan (1982), M.S. degrees in both applied mathematics (1984) and computer science (1988), and a Ph.D. degree in computer science (1992) from Michigan State University. Her current research interests include using mixed methods to examine privilege and diversity in engineering education, and undergraduate education in computer science. Her most important recent research projects include analyzing the role of competition teams in engineering education, examining factors leading to success for four groups of racial/ethnic minority students where she lead the group examining Asian and Asian American students, and explaining the attainment of gender parity in an engineering program. All three of these projects had a heavy emphasis on using qualitative methods in engineering education research. Trytten’s teaching interests focus on first and second year computer science courses where computer programming and software engineering skills are developed. She especially enjoys teaching and mentoring first-year students. She has chaired the Undergraduate Committee of the School of Computer Science at the University of Oklahoma for 19 years. She is co-founder of both the Research Institute for STEM Education (RISE) and the Sooner Engineering Education Center (SEED). Trytten has authored papers in venues, including the ASEE Annual Conference & Exposition, Journal of Engineering Education, the Special Interest Group in Computer Science Education, College Teaching, and the Frontiers in Education Conference. She has been an investigator on more than thirty grants and contracts from the National Science Foundation, the United States Department of Education, and several Oklahoma state agencies. She founded Beyond Paper, Inc. to commercialize electronic textbooks in 2001. Trytten has received the Regents Award for Superior Teaching in 2011, the Teaching Scholars’ Award from the College of Engineering at the University of Oklahoma in 2010, the OU Foundation Excellence in Teaching Award in 2009, the College of Engineering Outstanding Faculty Academic Advisor award in 2006, and the Provost’s Award for Outstanding Academic Advising in 1996. She is one of the general co-chairs for the Frontiers in Education conference to be held in Oklahoma City in 2013. She is currently a commissioner in the ABET Computing Accreditation Commission.

WILLIAM ELGIN WICKENDEN AWARD

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 has 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 scholarly research journal for the Society. JEE’s editorial review board selects the best paper published during the previous January to October publication cycle. The awardee receives a commemorative plaque.

LOWE received her doctorate in Intercultural Communication from the University of Oklahoma. Her research interests include intercultural communication, language and social interaction, STEM education and race, and ethnography. She has authored book chapters and articles published in Value Frameworks at the Theoretical Crossroads of Culture; Interracial Communication: Contexts, Communities, and Choices; and the Journal of Engineering Education. Lowe has lectured and taught courses on communication theory and methods, interpersonal communication, intercultural and diversity issues in communication, and the machine and the mind in philosophy.

WALDEN is founding Director of the Research Institute for STEM Education (RISE) and an associate research professor in the Dean’s office of the College of Engineering (CoE) at the University of Oklahoma (OU). She is also founding Associate Director of the Sooner Engineering Education (SEED) Center and the recently appointed Coordinator for Undergraduate Research Programs for OU.

As director of RISE, she coordinates a multi-disciplinary research team using primarily qualitative methods to study how the complex milieu of factors such as faculty cultural competency, institutional policies, and academic cultures intersect with students’ race, ethnicity, socio-economic background, and cultural capital to contribute to students’ academic experiences and eventual success in science, technology, engineering, and mathematics majors (STEM). She has been essential in the team’s successful acquisition of nearly $7.5 million in external research funding and over 30 peer-reviewed publications.

In her role as associate director of the SEED Center, she leads CoE outreach with K-12 students and teachers and consults with engineering faculty on their education and outreach efforts. Walden was recently appointed the inaugural Faculty Fellow in the Office of the OU Vice-President for Research to coordinate, facilitate and expand undergraduate research programs. She will be working with administrators and faculty of all disciplines to devise and implement a campus-wide strategy to engage every undergraduate student in authentic research and creative activities. This role includes integrating undergraduate research with curricular change initiatives and identifying strategies and resources to support faculty undergraduate research mentorship. Walden earned a BS in chemistry from Arkansas State University at Jonesboro. After eight years away from science, she was awarded the prestigious Centennial Graduate Fellowship to attend OU where she earned M.S. and Ph.D. degrees in Computational Organic Chemistry. Her chemistry graduate and post-graduate work examined models for electron transfer in complex protein systems and conducting polymers.

Walden is a member of the American Chemical Society, WEPAN, and ASEE. She is active in the Engineering Research and Methods, Women in Engineering, Minorities in Engineering (MIND), and K-12 and Pre-college Engineering divisions. She served on the MIND leadership board for three years, and on the K-12 board for seven years in multiple positions. She has served on advisory boards for several STEM broadening participation initiatives and volunteered for local and national educational policy advocacy boards.
This award recognizes high-quality papers that are presented at the ASEE Annual Conference. Papers awarded are from those that were presented at the Annual Conference the previous year. One outstanding conference paper is selected from the four ASEE Zones. The Zone Best 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
William C. Farrow, Milwaukee School of Engineering
Paper: “Project Cam-A-Rok, Engaging Mechanical Engineering Freshmen”
Session: M621

BEST PAPER - PIC I
Ted Eschenbach, University of Alaska, Anchorage; Neal A. Lewis, University of Bridgeport; and Yiran Zhang, University of Bridgeport
PAPER: “When to Start Collecting Social Security: Designing a Case Study”
Session: M630

BEST PAPER - PIC II
Tiffany Fisher, Indiana University-Purdue University, Indianapolis; Wanda L. Worley, Indiana University-Purdue University, Indianapolis; and Eugenia Fernandez, Indiana University-Purdue University, Indianapolis
PAPER: “Using Web 2.0 and Social Networking Technologies in the Classroom: A Comparison of Faculty and Student Perceptions”
Session: W536A

BEST PAPER - PIC III
Teodora Rutar Shuman, Seattle University, and Gregory Mason, Seattle University
PAPER: “Novel Approach to Conducting Labs in an Introduction to Thermodynamics Course”
Session: T1226

BEST PAPER - PIC IV
Michael Fosmire, Purdue University, West Lafayette and David F. Radcliffe, Purdue University, West Lafayette
Session: T633

BEST PAPER - PIC V
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 on the Self-Efficacy of Students in Undergraduate Engineering”
Session: W419

BEST CONFERENCE PAPER
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 on the Self-Efficacy of Students in Undergraduate Engineering”
Session: W419
ASEE COUNCIL AWARDS

ASEE CORPORATE MEMBER COUNCIL
CMC Excellence in Engineering Education Collaboration Awards

Driving Science
DuPont and Clemson University
Letha A. Hammon, DuPont

PACE PARTNERS FOR THE ADVANCEMENT OF COLLABORATIVE ENGINEERING EDUCATION
Global Collaborative Project Competition Initiative
General Motors Company, Siemens PLM Software, Autodesk, Hewlett Packard, Oracle Vass Theodoracatos, General Motors Company
Hulas King, Siemens PLM Software

ASEE ENGINEERING RESEARCH COUNCIL
Curtis W. McGraw Research Award
Christopher W. Jones
Georgia Institute of Technology
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. Following are this year’s award recipients.

**Gulf Southwest Section**
Nadir Yilmaz
New Mexico Institute of Mining & Technology

**Illinois/Indiana Section**
Jeff Will
Valparaiso University

**Middle Atlantic Section**
Robert Brooks
Temple University

**North Central Section**
Kathleen A. Ossman
University of Cincinnati

**Pacific Northwest Section**
Brock J. LaMeres
Montana State University

**Pacific Southwest Section**
Avelino Eduardo Saez
University of Arizona

**Southeast Section**
Elliot Douglas
University of Florida

**St. Lawrence Section**
Sinéad C. MacNamara
Syracuse 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. Following are this year’s award recipients.

Illinois/Indiana Section ................................................. Doug Tougaw
Valparaiso University

Midwest Section ............................................................. Kevin Drees
Oklahoma State University

Northeast Section .......................................................... Kanti Prasad
University of Massachusetts-Lowell

North Central Section .................................................... Christopher P. Pung
Grand Valley State University

Pacific Northwest Section .............................................. Carolyn Labun
University of British Columbia

Pacific Southwest Section .............................................. David Lanning
Embry-Riddle Aeronautical University, Prescott

St. Lawrence Section ...................................................... Surendra Gupta
Rochester Institute of Technology

Southeast Section .......................................................... Christopher J. Rowe
Vanderbilt University
OTHER SECTION AWARDS

GULF SOUTHWEST SECTION

SECTION MILE AWARD
University of New Mexico

FACULTY BEST PAPER AWARDS

FIRST PLACE
Paper: “The Impact of Peer Interaction Exercises in a Signals and Systems Course”
David H. K. Hoe
The University of Texas at Tyler

SECOND PLACE
Paper: “Is Distance Education Distant Education?”
Siamak (Sia) A. Ardekani
The University of Texas at Arlington

THIRD PLACE
Paper: “The Implementation of Take Home Laboratories Using the NI myDAQ”
Hector A. Ochoa
The University of Texas at Tyler

STUDENT BEST PAPER AWARDS

FIRST PLACE
Paper: “Auto-imaging, Predefined Stepping and Exposure through Submicron 3-Axis Inspection Microscope”
Chaudhry Arafat, Mohammad R. Hasan, & Samir M. Iqbal
The University of Texas at Arlington

SECOND PLACE
Paper: “Evaluating Effects of the Arlington Undergraduate Research-based Achievement for STEM (AURAS) Program on the Performance of Engineering Students in Chemistry Courses”
Priscila Martinez-Avila, Emmanuel Varona, Doug D. Carlton Jr, Abegayl Thomas, and Kevin A. Schug
The University of Texas at Arlington

THIRD PLACE
Amen Omoragbon, Gary Coleman, Lex Gonzalez, Brandon Watters, and Bernd Chudoba
The University of Texas at Arlington

ILLINOIS-INDIANA SECTION

OUTSTANDING SERVICE AWARD
Tom Trusty
Trine University

OUTSTANDING PAPER AWARD
Paper: “Problem-Based Learning to Promote Creativity”
Doug Tougaw & Jeff Will
Valparaiso University

MIDWEST SECTION

PERSON MILE AWARD
University of Arkansas-Fayetteville

OUTSTANDING PAPER AWARDS

FIRST PLACE
Christi Patton-Luks, Laura Ford, and Weston Kightlinger
University of Tulsa

SECOND PLACE
Paper: “Video Surveillance Analysis as a Context for Embedded Systems and Artificial Intelligence Education”
M. Ryan Bales
Georgia Tech
Steve E. Watkins
Missouri University of Science & Technology

THIRD PLACE
Paper: “Establishing a Faculty Development Focus at a Public Technological Research University”
Diane Hagni and Harvest Collier
Missouri University of Science & Technology

OUTSTANDING STUDENT POSTER AWARD
“Weight Reduction Methods for the SAE Aero Design Competition”
Christopher James & B. Terry Beck
Kansas State University

OUTSTANDING SERVICE AWARD
Steve E. Watkins
Missouri University of Science and Technology
OTHER SECTION AWARDS

NORTH CENTRAL SECTION

BEST PAPER AWARDS

FIRST PLACE
Paper: “Experiential Education and Broad Value Creation is Enabled by the Disabled”
Darrell Kleinke
University of Detroit, Mercy

SECOND PLACE
Paper: “Impact of Summer Bridge Programs on STEM Retention at The Ohio State University”
David Tamasko, Judy S. Ridgway, Susan V. Olesik, Rocque J. Waller, Minnie M. McGee, Lisa A. Barclay, Kathleen T. Harkin
Ohio State University,
Jan Upton
Institutional Research Consultants, Ltd.

THIRD PLACE
Paper: “Sophomore Machine Shop Experience Constructing a Spring-Powered Car”
Joshua Stuckey and Mark Archibald
Grove City College

NORTH MIDWEST SECTION

OUTSTANDING EDUCATOR AWARD
Kevin C. Craig
Marquette University

PACIFIC NORTHWEST SECTION

BEST PAPER AWARD
Paper: “Automated Generation of Randomizable Problem Sets and Detailed Solutions for a First Year Course in Engineering Statics”
Ken R. Fyfe and Jeffrey A. Davis
MacEwan University

PACIFIC SOUTHWEST SECTION

STUDENT OF THE YEAR AWARD
Jose Edid Garcia
Embry-Riddle Aeronautical University, Prescott

OUTSTANDING COMMUNITY COLLEGE EDUCATOR AWARD
Ann-Marie Vollstedt
Truckee Meadows Community College

ROCKY MOUNTAIN SECTION

BEST PAPER AWARD
Paper: “Student Perceptions of the Importance and Achievement of Sustainable Engineering Outcomes”
Angela R. Bielefeldt
University of Colorado

BEST PRESENTATION AWARD
Paper: “SolidWorks in Dynamics”
Mark Bedillion
South Dakota School of Mines

SOUTHEAST SECTION

NEW FACULTY RESEARCH AWARDS

FIRST PLACE
Michael Dickey
North Carolina State University

SECOND PLACE
Marian Kennedy
Clemson University

OUTSTANDING MID-CAREER TEACHING AWARD
Lisa Bullard
North Carolina State University

THOMAS C. EVANS INSTRUCTIONAL PAPER AWARD
Tanya Kunberger
Florida Gulf Coast University
AEROSPACE ENGINEERING DIVISION

JOHN LELAND ATWOOD AWARD

Mark D. Maughmer
Professor, Department of Aerospace Engineering
Pennsylvania State 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

Mung Chiang
Professor, Electrical Engineering Department
Director of Graduate Studies
Princeton 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

Rajendra Singh
Donald D. Glower Chair in Engineering
Professor, Mechanical Engineering Department
Ohio State 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.
OTHER DIVISION AWARDS

BIOLOGICAL AND AGRICULTURAL ENGINEERING DIVISION

EXCELLENCE IN TEACHING MATERIALS AND METHODS AWARD
R. Paul Singh
University of California, Davis

BIOMEDICAL ENGINEERING DIVISION

THEO C. PILKINGTON OUTSTANDING EDUCATOR AWARD
Ann Saterbak
Rice University

BIOMEDICAL ENGINEERING TEACHING AWARD
Michael Rust
Western New England University

CHEMICAL ENGINEERING DIVISION

WILLIAM H. CORCORAN AWARD
Donald R. Woods
McMaster University

CACHE AWARD
Edward M. Rosen
Monsanto Chemical Company

CHEMSTATIONS CHEMICAL ENGINEERING LECTURESHIP AWARD
Clayton J. Radke
University of California, Berkeley

JOSEPH J. MARTIN AWARD
Matthew Cooper, Lisa G. Bullard, Steven W. Peretti, & David F. Ollis
North Carolina State University

RAY W. FAHIEN AWARD
Matthew W. Liberatore
Colorado School of Mines

LIFETIME ACHIEVEMENT AWARD IN CHEMICAL ENGINEERING PEDAGOGY
Ronald W. Rousseau
Georgia Institute of Technology

CIVIL ENGINEERING DIVISION

GEORGE K. WADLIN Distinguished SERVICE AWARD
Jim L. Hanson
California Polytechnic State University, San Luis Obispo

GLEN L. MARTIN BEST PAPER AWARD
PAPER: “To Raise the Bar or Not: Addressing the Opposition”
Col. Stephen J. Ressler
U. S. Military Academy

COLLEGE/INDUSTRY PARTNERSHIPS DIVISION

CIEC BEST SESSION AWARD
“The Challenges of Addressing IP and ITAR Issues in a University Setting”
Presenters: Ranji Vaidyanathan
Oklahoma State University
Moderator: Cath Polito
University of Texas-Austin

CIEC BEST PRESENTER AWARD
“The Role of Corporate Partners in Student and Graduate Success”
Presenters: Bob Schwartz
Missouri University of Science and Technology
Henry Wiebe
Missouri University of Science and Technology
Sarah Bock
Covidien

CIEC BEST MODERATOR AWARD
“Innovative Senior Project Program Partnering University/Corporate Partners”
Moderator: Beth Bryant
Georgia Institute of Technology

COMPUTERS IN EDUCATION DIVISION

JOHN A. CURTIS LECTURE AWARD
Paper: “Developing Cyber Warriors from Computer Engineers et. al”
Barry E. Mullins
Air Force Institute of Technology

WOODY EVERETT BEST POSTER AWARD
Thalia Anagnos
San Jose State University
Alicia L. Lyman-Holt
Oregon State University
Sean P. Brophy
Purdue University
CONTINUING PROFESSIONAL DEVELOPMENT DIVISION

JOSEPH M. BIEDENBACH
DISTINGUISHED SERVICE AWARD

Andy DiPaolo
Stanford University

CERTIFICATE OF APPRECIATION

Ellen J. Elliott
2013 CPDD Program Chair
Johns Hopkins University

Lynda M. Coulson
2010-2013 CPDD Director
Rolls-Royce Corporation

Greg Ruff
2011-2013 CPDD Treasurer
Auburn University

CERTIFICATE OF MERIT
INTERNATIONAL LEADERSHIP IN CPD

Nelson Baker
Georgia Institute of Technology

LEADERSHIP IN CPD ONLINE INITIATIVE

Thomas Brumm
Iowa State University

CIEC BEST SESSION AWARD

“Operational Excellence in Professional Education: Assessing the Present, Sharing Good Practices, and Charting the Future”

Presenters: Kim Scalzo
SUNY Center for Professional Development

Ed Borbeley
University of Michigan

Nelson Baker
Georgia Institute of Technology

Moderator: Ellen Elliott
Johns Hopkins University

CIEC BEST CONFERENCE PRESENTER AWARD

“Optimizing Group Projects for Practicing Engineers in an Online Environment: Lessons Learned”

Presenter: Wayne Pferdehirt
University of Wisconsin, Madison

BEST MODERATOR AWARD

“Vietnam Higher Engineering Education Alliance Program (HEEAP)”

Moderator: Rita Burrell
Mississippi State University

COOPERATIVE AND EXPERIENTIAL EDUCATION DIVISION

LOU TAKACS AWARD

Gary Pennell
Nucor-Yamato Steel Company

ALVAH K. BORMAN AWARD

Gayle Elliott
University of Cincinnati

CIEC - BEST PRESENTER AWARD

“Integration of Professional Skills and Academic Content During Co-op Semesters Via Distance Learning Modules: Review of Results from a Pilot Program”

Presenter: Chris Plouff
Grand Valley State University

CIEC – BEST MODERATOR AWARD

“Introducing Engineering Students to the “Junior Game”

Moderator: Naomi Powell
University of Alabama

CIEC – BEST SESSION AWARD

“Creative Job Development Strategies in a Slow Economy”

Presenters: Lorraine Mountain & Karen Kelly
Northeastern University

Moderator: Louise Carrese
Rochester Institute of Technology

CO-OP STUDENT OF THE YEAR AWARD

Benjamin Lee Ko
University of Cincinnati

CEED INTERNS OF THE YEAR AWARD

Kirk Barber
Indiana University-Purdue University, Indianapolis

DIVISION OF EXPERIMENTATION AND LABORATORY ORIENTED STUDIES (DELOS)

BEST PAPER AWARDS

“DaNI-K: A Vision-based Robot Control Experiment with a DaNI Robot and Kinect Sensor Bundle”

Nebojsa I. Jaksic
Colorado State University, Pueblo
OTHER DIVISION AWARDS

EDUCATIONAL RESEARCH & METHODS DIVISION

DISTINGUISHED SERVICE AWARD

Richard Layton
Rose-Hulman Institute of Technology

HELEN L. PLANTS AWARD

Senay Purzer
Purdue University, West Lafayette

Johnathan Hilpert
Georgia Southern University

RONALD J. SCHMITZ AWARD FOR OUTSTANDING CONTRIBUTIONS TO THE FRONTIERS IN EDUCATION CONFERENCE

Arnold Pears
Uppsala University

BENJAMIN DASHER AWARD

Kristi J. Shryock, Arun R. Srinivasa, & Jeffrey E. Froyd
Texas A&M University

BEST PAPER AWARD

Alice Pawley
Purdue University, West Lafayette

APPRENTICE FACULTY GRANT

Samantha Brunhaver
Stanford University

James Huff
Harding University

Mahnes Jean Mohammadi-Aragh
Virginia Tech

Diane Peters
University of Michigan

Kathryn Trenshaw
University of Illinois, Urbana-Champaign

ENERGY CONVERSION AND CONSERVATION DIVISION

BEST PAPER AWARDS

FIRST PLACE
Paper: “Energizing the STEAM curricula with Bioenergy and Bioproducts”
Madhumi Mitra
University of Maryland Eastern Shore

Abhijit Nagchaudhuri
University of Maryland, Eastern Shore

Corinne Johnson Rutzke
Cornell University

SECOND PLACE
Paper: “Enhancing Student Learning Through a Real-World Project in a Renewable Energy Sources Course”
Oxana S. Pantchenko
University of California at Santa Cruz

Tiffany Wise-West
University of California Santa Cruz

Michael S. Isaacson
University of California, Santa Cruz

Ali Shakouri
Purdue University

THIRD PLACE
Paper: “Nuclear Workforce Development Scholarships and Enhancements Program Phase I: Outreach and Recruiting”
Hayrettin B Karayaka
Western Carolina University

Mehrube Mehrubeoglu
Texas A&M University, Corpus Christi

ELECTRICAL AND COMPUTER ENGINEERING DIVISION

MERITORIOUS SERVICE AWARD

Susan M. Lord
University of San Diego

DISTINGUISHED EDUCATOR AWARD

Cheryl B. Schrader
Missouri University of Science and Technology

ENGINEERING DESIGN GRAPHICS DIVISION

DISTINGUISHED SERVICE AWARD

Judith Birchman
Purdue University

OPPENHEIMER AWARD

Diarmaid Lane, Niall Seery, & Seamus Gordon
University of Limerick

CHAIR’S AWARD

Thomas Delahunty, Niall Seery, Raymond Lynch, & Diarmaid Lane
University of Limerick
EDITOR’S AWARD
Engineering Design Graphics Journal, Volume 76
Ted Branoff
North Carolina State University
Modris Dobelis
Riga Technical University

MEDIA SHOWCASE AWARD
Thomas Delahunty
University of Limerick

ENGINEERING ECONOMY DIVISION
EUGENE L. GRANT AWARD
“The Equitable Financing of Growth: A Proportionate Share Methodology for Calculating Individual Development Impact Fees” (The Engineering Economist, volume 57, number 3, pages 141-156)
Arthur T. Cox & Richard Followill
University of Northern Iowa

BEST PAPER AWARD
“Project-Based Learning in Engineering Economics: Teaching Advanced Topics Using a Stock Price Prediction Model”
Lizabeth T. Schlemer
California Polytechnic State University

ENGINEERING LIBRARIES DIVISION
HOMER I. BERNHARDT DISTINGUISHED SERVICE AWARD
Paige Gibbs
University of Massachusetts, Dartmouth

BEST PUBLICATION AWARD
“Lifelong Learning for Engineers and Scientists in the Information Age”
Ashok Naimpally
Fresno City College
Hema Ramachandran
California State University, Long Beach
Caroline Smith
University of Nevada, Las Vegas

ENGINEERING MANAGEMENT DIVISION
MERL BAKER AWARD
Neal Lewis
University of Bridgeport

BEST PAPER AWARD
“Developing Community for Distance Learners in an Engineering Management Program”
LaTondra Murray
Duke University

BEST PRESENTATION AWARD
“Proposing a Framework for Restructuring an Introductory Engineering Management Course for Undergraduates”
Presenter: Kathryn Abel
Stevens Institute of Technology

ENGINEERING PHYSICS DIVISION
DISTINGUISHED EDUCATOR AND SERVICE AWARD
Baha Jassemnejad
University of Central Oklahoma

ENGINEERING TECHNOLOGY DIVISION
CIEC – BEST PAPER AWARD
“A University and Community College Partnership to Meet Industry Needs for Future Workers in Advanced Automotive Technology”
Chih-Ping Yeh
Wayne State University
Gene Yeau-Jian Liao
Wayne State University
Joseph L Petrosky
Macomb Community College

CIEC – BEST PRESENTER AWARD
“Hands-On Project to Improve Mechanical Analysis Skills: A Comparative Study”
Presenter: Jon Fischer
California Maritime Academy
CIEC - Best Session Award
“The Future of Engineering Technology: Dean’s Perspective”

Presenters: Gary Bertoline
Purdue University

Jeffrey Ray
Southern Polytechnic State University

H. Fred Walker
Rochester Institute of Technology

Moderator: Ken Burbank
Purdue University

CIEC - Best Moderator Award
“Methods to Improve Instruction & Job Success in Engineering Technology”

Moderators: Walt Buchanan & Angie Hill Price
Texas A&M University

Environmental Engineering Division

Best Paper Award (Faculty)
“Development of a Concept Inventory for Introductory Environmental Engineering Courses”

Jeffrey A. Cunningham
University of South Florida

Sukalyan Sengupta
University of Massachusetts, Dartmouth

Sarina J. Ergas
University of South Florida

Ramesh K. Goel
University of Utah

Dilek Ozalp
University of South Florida

Teri Reed-Rhoads
Purdue University, West Lafayette

Best Student Paper Award
“Sustainable Water: Development, Delivery and Assessment of K-5 Modules”

Alexandre Wing, Cristal Hibbard,
Jennifer Strong, Jörg Drewes, & Junko Munakata Marr
Colorado School of Mines

Early Career Grant
“Interdisciplinary Approach to Address the Dynamics of Water Distribution Systems for Engineering Student Education”

Youngwoo Seo
The University of Toledo

Industrial Engineering Division

Best Paper Award
“Measuring Intercultural Sensitivity: A Case Study of the REU Program at UPRM”

Saylisse Davila, Viviana Cesani, & Alexandra Medina-Borja
University of Puerto Rico, Mayaguez

Distinguished Service Award
Terri Lynch-Caris
Kettering University

New IE Educator Outstanding Paper Award
“Review of Capstone Course Designs Used in Industrial Engineering Programs”

Denis H. Bauer
University of Idaho

Jessica Heier Stamm
Kansas State University

Lesley Strawderman
Mississippi State University

“A Metric-Based, Hands-On Quality and Productivity Improvement Stimulation Involving Lean and Sigma Concepts for First-Year Engineering Lab Students”

Yosef S. Allam
Embry-Riddle Aeronautical University, Daytona Beach

Scott Sink
Ohio State University

John A. Merrill
Ohio State University

Graduate Studies Division

Donald Keating Award
Stephen J. Tricamo
New Jersey Institute of Technology

Distinguished Service Award
Terri Lynch-Caris
Kettering University

Liberal Education Division

The Sterling Olmstead Award
Vivian Weil
Illinois Institute of Technology
OTHER DIVISION AWARDS

MATHEMATICS DIVISION

DISTINGUISHED EDUCATOR AND SERVICE AWARD

Henry Zwick
Utah State University-College of Eastern Utah

BEST PAPER AWARD

“Designing for Improved Success in First Year Mathematics”

Helen M. Doerr
Syracuse University
Andria Costello Staniec
Syracuse University
AnnMarie H. O’Neill
C.S. Driver Middle School

MULTIDISCIPLINARY ENGINEERING DIVISION

BEST PAPER AWARD

“Using Video to Tie Engineering Themes to Foundational Concepts”

Darshita Shah, Jennifer French, Janet Rankin, & Lori Breslow
Massachusetts Institute of Technology

PHYSICS DIVISION

DISTINGUISHED EDUCATOR AND SERVICE AWARD

Baha Jassemnejad
University of Central Oklahoma

SYSTEMS ENGINEERING DIVISION

BEST PAPER AWARD

“Applying Systems Engineering to the Lunabotics Mining Competition Capstone Design Challenge”

Lisa Guerra, Gloria Murphy, & Lisa May
National Aeronautics and Space Administration (NASA)

WOMEN IN ENGINEERING DIVISION

MARA H. WASBURN APPRENTICE EDUCATOR GRANT

Elise Marie Barrella
James Madison University

Jennifer Wang
University of California, Berkeley

BEST PAPER AWARD

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

Lorelle Meadows and Denise Sekaquaptewa
University of Michigan

MECHANICAL ENGINEERING DIVISION

OUTSTANDING NEW MECHANICAL ENGINEERING EDUCATOR AWARD

Carolyn Connor Seepersad
The University of Texas at Austin

MECHANICS DIVISION

ARCHIE HIGDON DISTINGUISHED EDUCATOR AWARD

James W. Dally
University of Maryland, College Park

FERDINAND P. BEER AND E. RUSSELL JOHNSTON, JR. OUTSTANDING NEW MECHANICS EDUCATOR AWARD

Charles Riley
Oregon Institute of Technology

Douglas P. Holmes
Virginia Tech

BEST PAPER AWARD

“Learning Statics by Feeling: Effects of Everyday Examples on Confidence and Identity Development”

Janet Y. Tsai, Daria A. Kotys-Schwartz & Michael Hannigan
University of Colorado-Boulder

BEST PRESENTATION AWARD

“Relating Usage of Web-Based Learning Materials to Learning Progress”

Paul Steif
Carnegie Mellon University

Anna Dollar
Miami University
FELLOW MEMBER HONOREES


2005 Adeyinka Adeyiga, Nicholas Altiero, Cristina Amon, Thomas Edgar, John Lamancusa, Carl Locke, Jr., Jack Lohmann, Thomas Regan, Joseph Shaeiwitz, Marwan Simaan, John Steadman

2006 Timothy Anderson, Cynthia Atman, Clive Dym, Luther Epting, James Farison, B. Keith Hodge, Joseph Hughes, James L. Melsa, J. P. Mohsen, Mark Pagano, Larry Shuman, David Voltmer

2007 Ashok Agrawal, Don Dekker, Elliot Eisenberg, Wolter Fabrycky, Patricia Fox, John Heywood, Raymond Morrison, Robert Mott, Donald Myers, Michael O’Hair, Sarah Rajala, Sheri Sheppard, Charles Yokomoto

2008 Ted Batchman, Marilyn Dyrud, John Enderle, Norman Fortenberry, Frank Huband, Thomas Litzinger, Lakshmi Munukutla, Conrad Newberry, Nicholas Peppas, Andrew Pytel, Gloria Rogers, Kirk Schulz


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

BENJAMIN GARVER LAMME AWARD

2003 Winfred M. Phillips
2004 Stephen W. Director
2005 Paul R. Gray
2006 George P. “Bud” Peterson
2007 Roland Haden
2008 Ernest Smerdon
2009 John W. Prados
2010 James Stice
2011 Jean-Lou Chameau
2012 Lester A. Gerhardt

FREDERICK J. BERGER AWARD

2003 Patricia L. Fox
2004 Ronald H. Rockland
2005 John Stratton
2006 Harold L. Broberg
2007 Edward Tezak
2008 Warren Hill
2009 Richard Denning
2010 Robert Herrick
2011 Carol Richardson
2012 Kenneth Rennels
## CHESTER F. CARLSON AWARD
- 2003 Deran Hanesian
- 2004 Sheri Sheppard
- 2005 Sudhir I. Mehta
- 2006 Robert P. Hesketh
- 2007 Rebecca Richards-Kortum
- 2008 Not Presented
- 2009 Kamyar Haghighi
- 2010 Philip S. Schmidt
- 2011 M. Granger Morgan
- 2012 William C. Oakes

## ISADORE T. DAVIS AWARD *(First presented in 2011)*
- 2011 Dharmaraj Veeramani
- 2012 Mohammad Noori

## DUPONT MINORITIES IN ENGINEERING AWARD
- 2003 Bevlee A. Watford
- 2004 Gary S. May
- 2005 Juan Gilbert
- 2006 Mary R. Anderson-Rowland
- 2007 Gerhard Paskusz
- 2008 Stephanie Adams
- 2009 Brenda Hart
- 2011 Richard A. Tapia
- 2012 Carolyn Vallas

## CLEMENT J. FREUND AWARD *(presented biennially beginning in 1995)*
- 2003 Tomas M. Akins
- 2005 Mike Mathews
- 2007 Les Leone
- 2009 Brenda J. LeMaster
- 2011 Helen C. Oloroso

## JOHN L. IMHOFF AWARD *(first presented in 2006)*
- 2006 John White
- 2007 Jack Lohmann
- 2008 Gavriel Salvendy
- 2009 Jose L. Zayas-Castro
- 2010 Adedeji Badiru
- 2011 Not Presented
- 2012 Bopaya Bidanda

## SHARON A. KEILLOR AWARD
- 2002 Audeen W. Fentiman
- 2003 Jennifer L. Curtis
- 2004 Rebecca Richards-Kortum
- 2005 Malgorzata S. Zywno
- 2006 Sara Wadia-Fascetti
- 2007 Julia Ross
- 2008 Sue Ann Allen
- 2009 Alice C. Parker
- 2010 Kauser Jahan
- 2011 Sheryl Sorby
- 2012 Mary Besterfield-Sacre
NATIONAL & SOCIETY AWARD RECIPIENTS & FELLOW MEMBER HONOREES (PAST 10 YEARS)

JAMES H. MCGRAW AWARD
2002 Albert L. McHenry
2003 Walter W. Buchanan
2004 Robert L. Mott
2005 Mark A. Pagano
2006 Michael T. O’Hair
2007 Warren Hill
2008 Patricia Fox
2009 John Stratton
2010 Marilyn Dyrud
2011 Thomas M. Hall, Jr.
2012 Ashok K. Agrawal

MERIAM/WILEY DISTINGUISHED AUTHOR AWARD (presented biennially beginning in 1993)
2002 Not Presented
2004 Not Presented
2006 Roger G. Harrison, Paul W. Todd, Scott R. Rudge, and Demetri P. Petrides
2008 Not Presented
2010 Antonios G. Mikos and Johnna S. Temenoff
2011 Not Presented
2012 Katta G. Murty

FRED MERRYFIELD DESIGN AWARD
2002 Clive L. Dym
2003 Spencer Magleby
2004 John S. Lamancusa
2005 Edward Cussler
2006 Robert Erlandson
2007 John Enderle
2008 Linda Schmidt
2009 Mark Maughmer
2010 Kemper Lewis
2011 Timothy W. Simpson
2012 Maria Oden

NATIONAL ENGINEERING ECONOMY TEACHING EXCELLENCE AWARD
(Presented biennially & first presented in 2010)
2010 Gerald A. Fleischer
2012 Richard Bernhard

NATIONAL OUTSTANDING TEACHING AWARD (first presented in 2004)
2004 Stephanie Farrell
2005 Ralph Flori
2006 Ronald W. Welch
2007 Dennis Silage
2008 Jerry Samples
2009 Donald Visco, Jr.
2010 J. Ledlie Klosky
2011 Autar Kaw
2012 Col. Bobby “Grant” Crawford

ROBERT G. QUINN AWARD
2002 Robert Hesketh
2003 David M. Hata
2004 Charles Ume
NATIONAL & SOCIETY AWARD RECIPIENTS & FELLOW MEMBER HONOREES (PAST 10 YEARS)

2005 Not Presented
2006 Stephanie Farrell
2007 Ann Saterbak
2008 Not Presented
2009 Jay Porter
2010 Not Presented
2011 Ahmed Rubaai
2012 Thomas F. Schubert, Jr.

WILLIAM ELGIN WICKENDEN AWARD
2003 Richard M. Felder, Gary N. Felder, E. Jacquelin Dietz
2004 Gary S. May and Daryl E. Chubin
2005 Michelle J. Johnson and Sheri D. Sheppard
2006 Barbara M. Olds, Barbara M. Moskal, and Ronald L. Miller
2007 Robert J. Roselli and Sean P. Brophy
2008 Cynthia Atman, Robin Adams, Monica Cardella, Jennifer Turns, Susan Mosborg, and Jason Saleem
2009 Matthew W. Ohland, Sheri D. Sheppard, Gary Lichtenstein, Ozgur Eris, Debbie Chachra, and Richard A. Layton
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
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