



### BIOMEDICAL ENGINEERING DIVISION

#### **THEO C. PILKINGTON OUTSTANDING EDUCATOR AWARD**

**Paul H. King**  
*Vanderbilt University*

#### **BEST PAPER AWARD**

**Jonathan Sanghoon Lee, Shing Wai Yam,**  
and **William H. Guilford**  
*University of Virginia*  
PAPER: "Significant Factors in Successfully Matching Students to Biomedical Engineering Research Laboratories"

### CHEMICAL ENGINEERING DIVISION

#### **CACHE AWARD**

**Michael Hanyak**  
*Bucknell University*

#### **WILLIAM H. CORCORAN AWARD**

Authors: **David Silverstein** and **Gifty Osei-Prempeh**, *University of Kentucky*  
PAPER: "Making a Chemical Process Control Course an Inductive and Deductive Learning Experience"

#### **CHEMSTATIONS CHEMICAL ENGINEERING LECTURESHIP AWARD**

**Richard Noble**  
*University of Colorado*

#### **RAY W. FAHIEN AWARD**

**Adrienne Minerick**  
*Michigan Technological University*

#### **AWARD FOR LIFETIME ACHIEVEMENT IN CHEMICAL ENGINEERING PEDAGOGICAL SCHOLARSHIP**

**Ronald Miller**  
*Colorado School of Mines*

#### **JOSEPH J. MARTIN AWARD**

**Lisa Bullard**, *North Carolina State University*  
**Donald Visco**, *University of Akron*  
**David Silverstein**, *University of Kentucky*  
**Jason Keith**, *Michigan Technological University*  
PAPER: "Strategies for Creating and Sustain-

ing a Departmental Culture"

#### **GRADUATE STUDENT FUTURE FACULTY GRANT**

**Debra Gilbuena**  
*Oregon State University*

#### **ENGINEERING EDUCATION MENTORING GRANT**

**Matthew Liberatore**  
*Colorado School of Mines*

#### **MENTORING AND TRAVEL GRANT FOR NEW ATTENDEES**

**Daniel Lopek**  
*Cooper Union*

### CIVIL ENGINEERING DIVISION

#### **GERALD R. SEELEY FELLOWSHIP**

**Ellie H. Fini**  
*North Carolina State University*  
PAPER: "The Effect of Project-Based Learning (PBL) on Improving Student Learning Outcomes in Transportation Engineering"

#### **GEORGE K. WADLIN DISTINGUISHED SERVICE AWARD**

**J. P. Mohsen**  
*University of Louisville*

#### **GLEN L. MARTIN BEST PAPER AWARD**

**Steven Burian** and **Edward Barbanell**  
*University of Utah*  
PAPER: "Hydrotopia: Integrating Civil Engineering and Humanities to Teach Water Resources Engineering and Management"

### COLLEGE/INDUSTRY PARTNERSHIPS DIVISION

#### **CIEC BEST SESSION AWARD**

"Open Innovation at HP Labs: Weaving Together Minds, Ideas and Resources"  
PRESENTER: **Martina Y. Trucco**, *Hewlett Packard*  
MODERATOR: **Cath Polito**, *University of Texas at Austin*



### CIEC BEST PRESENTER AWARD

**Cynthia C. Fry**, *Baylor University*

SESSION: “Non-Traditional Preparation for a Global Workforce”

### CIEC BEST MODERATOR AWARD

**Charles A. Baukal, Jr.** – *John Zink Co., LLC*

SESSION: “Partnerships Between Universities and Electric Utilities with Nuclear Power Plants”

## CONTINUING PROFESSIONAL DEVELOPMENT DIVISION

### CIEC BEST SESSION AWARD

“Extending International Continuing Engineering Education Benchmarking: Progress Through Collaboration”

PRESENTERS:

**Nelson Baker**, *Georgia Institute of Technology*

**Kim A. Scalzo**, *State University of New York (SUNY)*

**Edward G. Borbely**, *University of Michigan*

**John P. Klus**, *University of Wisconsin*

**Alfredo Soeiro**, *University of Porto, Portugal*

**Terrye Schaetzel**, *Georgia Institute of Technology*

**Anna-Maija Ahonen**, *Aalto University*

**Kirsti Miettinen**, *Aalto University*

MODERATOR: **Keith Plemmons**, *The Citadel*

### CIEC BEST CONFERENCE PRESENTER AWARD

**Sue Bray**, *New Vistas*

SESSION: “Meeting the Challenges of Cross-Cultural Virtual Work Teams”

### CIEC BEST MODERATOR AWARD

**Mark Schuver**, *Purdue University*

SESSION: “Online Project Management: From Idea to Implementation”

### CERTIFICATE OF APPRECIATION

**Mark Schuver**, Director – 2008-11

**Keith Plemmons**, Director – 2008-11

**Greg Ruff**, Treasurer – 2009-11

**Keith Plemmons**, 2010 ASEE Program Chair

**Lea-Ann Morton**, 2011 CIEC Program Chair

## COOPERATIVE AND EXPERIENTIAL EDUCATION DIVISION

### LOU TAKACS AWARD

**Laura Chessa**

*Johnson & Johnson/McNeil Consumer Care*

### CIEC - BEST PRESENTER AWARD

**Robert Tillman**, *Northeastern University*

SESSION: “Co-op and Internships Programs: Positive Strategies for Challenging Times”

### CIEC - BEST MODERATOR AWARD

**Bryan Dansberry**, *NASA Johnson Space*

*Center-Education Office*

SESSION: “Innovative Strategies for Increasing University/Employer Collaboration”

### CIEC - BEST SESSION AWARD

**Harold B. Simmons**, *Georgia Institute of Technology*

SESSION: “An Evolutionary History of CEED and CIEC

MODERATOR: *Ilka Balk, University of Kentucky*

### CO-OP STUDENT OF THE YEAR AWARD

**Roshni Barot**

*Northwestern University*

## DIVISION OF EXPERIMENTATION AND LABORATORY ORIENTED STUDIES (DELOS)

### DISTINGUISHED SERVICE AWARD

**Ahmed Rubaai**

*Howard University*

### BEST PAPER AWARDS

**Bijan Sepahpour**

*The College of New Jersey*

PAPER: “An Interesting Application of Optical Measurement Techniques”

**Lisa Huettel**

*Duke University*

PAPER: “Connecting Theory and Practice: Laboratory-Based Explorations of the NAE Grand Challenges”



**Debra J. Mascaro, Stacy J. Morris Bamberg,**  
and **R. Roemer**, *University of Utah*  
PAPER: "Temperature Alarm Laboratory Design Project for a Circuit Analysis Course in a General Engineering Curriculum"

### EDUCATIONAL RESEARCH & METHODS DIVISION

#### **DISTINGUISHED SERVICE AWARD**

**Cynthia J. Finelli**  
*University of Michigan*

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

**Daniel J. Moore**  
*Rose-Hulman Institute of Technology*

#### **BENJAMIN DASHER AWARD**

**Jeffrey L. Newcomer**  
*Western Washington University*  
PAPER: "Inconsistencies in Students' Approaches to Solving Problems in Engineering Statics"

#### **BEST PAPER AWARD**

**Michael J. Prince** and **Margot Vigeant**  
*Bucknell University*  
PAPER: "The Use of Inquiry-Based Activities to Repair Student Misconceptions Related to Heat, Energy, and Temperature"

### ELECTRICAL AND COMPUTER ENGINEERING DIVISION

#### **MERITORIOUS SERVICE AWARD**

**Dennis Silage**  
*Temple University*

#### **DISTINGUISHED EDUCATOR AWARD**

**John A. Orr**  
*Worcester Polytechnic Institute*

### ENERGY CONVERSION AND CONSERVATION DIVISION

#### **BEST PAPER AWARD**

**Margaret B. Bailey**  
*Rochester Institute of Technology*  
PAPER: "Studying the Impact on Mechanical Engineering Students Who Participate in Distinctive Projects in Thermodynamics"

### ENGINEERING DESIGN GRAPHICS DIVISION

#### **DISTINGUISHED SERVICE AWARD**

**Ron Pare**  
*University of Houston*

#### **OPPENHEIMER AWARD**

**Nancy Study**  
*Virginia State University*

#### **CHAIR'S AWARD**

**Diamaid Lane** and **Niall Seery**  
*University of Limerick*

#### **EDITOR'S AWARD**

**Holly Ault** and **Samuel John**  
*Worcester Polytechnic Institute*

#### **MEDIA SHOWCASE AWARD**

**A. Varricchio, M. Kelly, J. Donovan, J. O'Donnell, R. Kettner-Polley, J. Smith,** and **N. Bertozzi**, *Daniel Webster College*;  
**Ted Branoff**, *North Carolina State University*;  
**Marie Planchard**, *Dassault Systèmes Solidworks, Corp.*

### ENGINEERING ECONOMY DIVISION

#### **EUGENE L. GRANT AWARD**

**Carlo Alberto Magni**  
*University of Modena and Reggio Emilia* (Modena, Italy)  
PAPER: "Average Internal Rate of Return and Investment Decisions: A New Perspective," (The Engineering Economist, Volume 55, Number 2, pgs. 150-180)



### BEST PAPER AWARD

**Louis Reifschneider**  
*Illinois State University*

## ENGINEERING LIBRARIES DIVISION

### HOMER I. BERNHARDT

#### DISTINGUISHED SERVICE AWARD

**Dorothy Byers**  
*Kalifa University, Abu Dhabi*

### BEST PUBLICATION AWARD

**Thomas Conkling, Kevin Harwell, Cheryl McCallips, Sylvia Nyana, and Bonnie Osif**  
*Pennsylvania State University*  
ARTICLE: "Research Material Selection in the Pre-Web and Post-Web Environments: An Interdisciplinary Study of Bibliographic Citations in Doctoral Dissertations," (*Journal of Academic Librarianship*, Volume 36, Number 1 - January 2010)

### INNOVATION IN ACCESS TO ENGINEERING INFORMATION AWARD

**Eugene Barsky**  
*University of British Columbia*

## ENGINEERING MANAGEMENT DIVISION

### BERNARD R. SARCHET AWARD

**Lucy Morse**  
*University of Central Florida*

### MERL BAKER AWARD

**Ertunga Ozelkan**  
*University of North Carolina, Charlotte*

### BEST PAPER AWARD

**Amy K. Zander**  
*Clarkson University*

### BEST PRESENTATION AWARD

**Jon Sticklen**  
*Michigan State University*

## ENGINEERING TECHNOLOGY DIVISION

### CIEC - BEST PRESENTER AWARD

**Ken Rennels**  
*Indiana University/Purdue University, Indianapolis*  
SESSION: "Healthcare, Life Sciences, and Engineering Technology"

### CIEC - BEST SESSION AWARD

SESSION: "Faculty Scholarship, Research, and Development in Engineering Technology"  
MODERATOR: **Walter W. Buchanan**, Texas A&M University  
PRESENTERS: **Vladimir Genis**, *Drexel University*; **Phillip Cochrane**, *Indiana State University*; **Alan Hadad**, *University of Hartford*; **William Clapp**, *Weber State University*

## ENVIRONMENTAL ENGINEERING DIVISION

### BEST PAPER AWARD

**Stephanie Luster-Teasley and Cindy Waters**  
*North Carolina A&T State University*  
PAPER: "Reforming Environmental Engineering Laboratories for Sustainable Engineering: Incorporating Problem Based Learning and Case Studies into an Environmental Engineering Lab Course"

### EARLY CAREER GRANT

**Isaac W. Wait**  
*Marshall University*  
PAPER: "Using Kefir to Teach Microbial Kinetics in an Undergraduate Wastewater Treatment Course" (**Isaac W. Wait, Richard F. McCormick, and Sydney M. Wait**)

### BEST STUDENT PAPER AWARD

**Jonathan Wiggins**  
*University of Colorado, Boulder*  
PAPER: "Students and Sustainability: Assessing Students' Understanding of Sustainability from Service Learning Experiences" (**Jonathan Wiggins, Mary E. McCormick, and Chris Swan**, Tufts University; **Kurt Pater-son**, Michigan Technological University; and **Angela R. Bielefeldt**, University of Colorado, Boulder)



### INDUSTRIAL ENGINEERING DIVISION

#### **BEST PAPER AWARD**

**Lizabeth T. Schlemer**

*California Polytechnic State University,  
San Luis Obispo*

PAPER: "Design Projects with Out-of-Town Companies"

### INFORMATION SYSTEMS DIVISION

#### **BEST PAPER AWARD**

**Jeongkyu Lee** and **Omar Abuzaghleh**

*University of Bridgeport*

PAPER: "Implementing an Affordable High Performance Computing Platform for Teaching-Oriented Computer Science Curriculum"

### INTERNATIONAL DIVISION

#### **BEST PAPER AWARD**

**Michael D. Mack**, *University of Florida*

**Fazil T. Najafi**, *University of Florida*

**Nick M. Safai**, *Salt Lake Community College*

PAPER: "Cost Effective Energy Efficient Housing with an International Implementation"

and

**Jian Yu**, *Auburn University and Tsinghua University, China*

**Chefan S. Sankar**, *Auburn University*

PAPER: "Improving Engineering Education in Developing Countries: A Study"

### LIBERAL EDUCATION DIVISION

#### **THE STERLING OLMSTEAD AWARD**

**Taft H. Broome, Jr.**

*Howard University*

### MATHEMATICS DIVISION

#### **DISTINGUISHED EDUCATOR AND SERVICE AWARD**

**Dale Buechler**

*University of Wisconsin, Platteville*

#### **BEST PAPER AWARD**

**Elton Graves**

*Rose-Hulman Institute of Technology*

### MECHANICAL ENGINEERING DIVISION

#### **BEST PAPER AWARD**

**Stephen R. Turns**, *Pennsylvania State University, University Park*

**Peggy Noel Van Meter**, *Pennsylvania State University*

PAPER: "Applying Knowledge from Educational Psychology and Cognitive Science to a First Course in Thermodynamics"

#### **BEST PAPER AWARD - HONORABLE MENTION**

**Blake M. Ashby**, *Grand Valley State University*

**Alan F. Asay**, *Woolley Engineering Research Corporation*

PAPER: "Reconstruction of an Actual Vehicle Rollover as a Special Project in an Undergraduate Dynamics Course"

#### **BEST PAPER AWARD - HONORABLE MENTION**

**Bobby G. Crawford** and **Daisie D. Boettner**, *U.S. Military Academy*

PAPER: "Integrating Thermodynamics and Fluid Mechanics Instruction: Practical Solutions to Issues of Consistency"

#### **BEST PAPER AWARD - HONORABLE MENTION**

**Patrick W. Pace** and **Kristin L. Wood**, *University of Texas, Austin*; **John J. Wood** and **Daniel D. Jensen**, *U.S. Air Force Academy*

PAPER: "Studying Ideation in Engineering Design"



### MECHANICS DIVISION

#### **ARCHIE HIGDON DISTINGUISHED EDUCATOR AWARD**

**Charles Krousgrill**  
*Purdue University*

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

**Jeffrey F. Rhoads**, *Purdue University*  
**Rashid K. Abu Al-Rub**, *Texas A&M University*

#### **JAMES L. MERIAM SERVICE AWARD**

**Glenn Kraige**  
*Virginia Tech*

### MULTIDISCIPLINARY ENGINEERING DIVISION

#### **BEST PAPER AWARD**

**Brock J. LeMares**, **Ahsan Mian**, **Hunter Lloyd**,  
and **Robb Larson**, *Montana State University*  
PAPER: "The Montana MULE: A Case Study in  
Interdisciplinary Capstone Design"

### PHYSICS DIVISION

#### **DISTINGUISHED EDUCATOR AND SERVICE AWARD**

**David Probst**  
*Southeast Missouri State University*

### SYSTEMS ENGINEERING DIVISION

#### **BEST PAPER AWARD**

**Cecelia M. Wigal**  
*University of Tennessee, Chattanooga*  
PAPER: "Identifying and Defining Relationships: Techniques for Improving Student Systemic Thinking"

### WOMEN IN ENGINEERING DIVISION

#### **DENICE D. DENTON BEST PAPER AWARD**

**Rose Marra**, *University of Missouri, Columbia*  
**Lois Trautvetter**, *Northwestern University*  
**Lisa Lattuca**, *Pennsylvania State University*  
**Katie Piacentini**, *University of Missouri, Columbia*

**David Knight**, *Pennsylvania State University*  
PAPER: "Programs and Practices Making a Difference: A Cross-Case Analysis Identifying Programs and Factors that Influence Recruitment and Retention of Women Engineering Students"

#### **APPRENTICE EDUCATOR GRANT**

**Stephanie Claussen**, *Stanford University*  
**Sara Atwood**, *Elizabethtown College*