I look forward to seeing you in the historic and beautiful city of Atlanta at the 2013 ASEE Annual Conference. Both this historic city and our program can be characterized as exciting, serving a plethora of professional interests and activities. We will be in Atlanta during the year of our 120th anniversary and we plan to make this a very special conference. Whether you stay in the city or its suburbs, I am certain that you will be impressed with its cosmopolitan atmosphere and historical attractions.

As in the past, this year’s conference benefits from outstanding planning by a team that chose relevant topics fostering different types of engagement in a variety of venues. Let me highlight just a few sessions, beginning with Sunday. The ASEE Division Mixer at the Georgia World Congress Center offers a great networking opportunity, allowing you to mix with members of your own and other divisions. This event gives divisions an opportunity to showcase and promote themselves to prospective members. The Board of Directors hosts an afternoon welcome titled “Greet the Stars,” where first-time attendees can learn about the conference while tapping into one of the most valuable assets of ASEE membership—the network of professionals sharing the same commitment to engineering education.

Main Plenary I on Monday morning will feature a talk by Al Gomez, the Chief Academic Officer of The STEM Academy. During this session, I will have the pleasure of introducing you to our Executive Director, Norman Fortenberry, who will have some words to say about the state of our society.

Main Plenary II on Tuesday morning will be moderated by the 2013-2014 ASEE President, Kenneth F. Galloway, who will share his vision for the coming year. Following this talk, the Best Professional Interest Council, Zone, and Best Conference Papers will be featured, with the winning authors sharing highlights. He will then introduce the Corporate Member Council Industry Leader speaker, Alan Todd, CEO of CorpU, a leading corporate university research and executive education company.

The Distinguished Lecture Series on Wednesday is designed to broaden perspectives and deepen understanding on topics relevant to engineering and engineering technology education. This year attendees will have the opportunity to hear the insights of industry and academic leaders as they share ideas on Open Access and Open Educational Resources, Student Development: An Alternative to Sink or Swim, The Innovation Imperative, Rigor/Us: Merit Standards and Diversity in Engineering Education Research and Practice, and Exploring the Role of Men in Building a Culture of Full Inclusion Within Engineering Education and the Profession.

Throughout the conference, attendees can focus on a particular division, attend business meetings, or explore the Exposition Hall. In particular, I encourage you to make room in your schedule for the Focus on Exhibits Welcome Reception (Sunday), the Focus on Exhibits Brunch and Ice Cream Social (Monday), and the Focus on Exhibits Closing Lunch and Meet the Board Forum (Tuesday).

Finally, the conference culminates in the annual ASEE Awards Banquet. The Banquet program allows us to celebrate the success of our 120th Society Year, thank those who made it possible, such as the outgoing Board Members, including Don Giddens, acknowledge our national award recipients, welcome the new ASEE Fellows, and introduce the 2013-2014 Board of Directors. It’s a grand event and I hope you will join us in the celebration.

The conference is the result of much hard work and commitment by volunteers and dedicated and professional staff. I extend my thanks to each person who contributed talent and effort to plan, review papers, design sessions, coordinate panels, and set agendas. Because of you, we will have an extraordinary event filled with many opportunities to learn with and from each other, serve our members, and contribute to the advancement of engineering and engineering technology education. I look forward to seeing you in Atlanta.

Walter W. Buchanan, ASEE President 2012-2013
ASEE would like to acknowledge and thank the 2013 ASEE Program Chairs for all their hard work and dedication.

**Aerospace Division**
Kristi J Shryock
Texas A&M University

**Architectural Engineering Division**
Suining Ding
Indiana University Purdue University

**Biological and Agricultural Engineering Division**
Carmine C. Balascio
University of Delaware

**Biomedical Engineering Division**
J. Aura Gimm
Duke University

**Chemical Engineering Division**
Daniel Lepek
The Cooper Union

**Civil Engineering Division**
Matthew W. Roberts
University of Wisconsin

**College-Industry Partnerships**
Linda D. Krute
North Carolina State University

**Community Engagement in Engineering Education Constituent Committee**
Chris Swan
Tufts University

**Computers in Education Division**
James E. Lewis
University of Louisville

**Construction Engineering Division**
John Hildreth
University of North Carolina, Charlotte

**Continuing Professional Development Division**
Pamela L Dickrell
University of Florida

**Cooperative Education Division**
Chris Plouff
Grand Valley State University

**Corporate Members Council**
Chris Higa

**Division of Experimentation and Laboratory Oriented Studies**
Gregory Mason
Seattle University

**Educational Research and Methods Division**
Elliot P. Douglas
University of Florida

**Electrical and Computer Engineering Division**
Christopher S. Greene
University of St. Thomas

**Energy Conversion and Conservation Division**
Patrick A. Tebbe
Minnesota State University

**Engineering and Public Policy Division**
Martin S. High
Oklahoma State University

**Engineering Deans Council**
Megan Marsico
ASEE Public Affairs Department

**Engineering Design Graphics Division**
Michael D. Stewart
Georgia Tech

**Engineering Economy Division**
Neal Lewis
University of Bridgeport

**Engineering Ethics Division**
Christopher J. Bise
West Virginia University

**Engineering Leadership Constituent Committee**
Ronald J. Bennett
University of St. Thomas

**Engineering Libraries Division**
Adriana Popescu
Princeton University

**Engineering Management Division**
S. Jimmy Gandhi
Stevens Institute of Technology

**Engineering Research Council**
Ralph H. Zee
Auburn University

**Engineering Technology Council**
Dr. Ken Burbank
Purdue University
Engineering Technology Division
Rasoul Saneifard
Texas Southern University

Entrepreneurship Division
William M. Jordan
Baylor University

Environmental Engineering Division
Junko Munakata Marr
Colorado School of Mines

First-Year Programs Division
Robin A. M. Hensel
West Virginia University

Graduate Studies Division
Hamid Johari
California State University, Northridge

Industrial Engineering Division
Rick Olson
University of San Diego

Information Systems Division
Reza Sanati-Mehrizy
Utah Valley University

Instrumentation Division
Asad Yousuf
Savannah State University

International Division
Nick Safai
Salt Lake City Community College

K-12 and Pre-College Engineering Division
Susan K. Donohue
University of Virginia

Liberal Education Division
Atsushi Akera
Rensselaer Polytechnic Institute (RPI)

Manufacturing Division
Christopher P. Pung
Grand Valley State University

Materials Division
Michael Kessler
Iowa State University

Mathematics Division
Robert Talbert
Grand Valley State University

Mechanical Engineering Division
John-David S. Yoder
Ohio Northern University

Mechanics Division
Rungun Nathan
Pennsylvania State University

Minorities in Engineering Division
Monica Farmer Cox
Purdue University

Multidisciplinary Engineering Division
Steve G. Northrup
Western New England University

New Engineering Educators Division
Jessica A. Kuczenski
Century College

NSF Grantees Poster Session
Larry Genalo
Iowa State University

Ocean, Marine & Coastal Engineering Division
Robert W. Whalin
Jackson State University

Physics & Engineering Physics Division
Evan Lemley
University of Central Oklahoma

Software Engineering Constituent Committee
James Vallino
Rochester Institute of Technology

Sponsored Sessions
Page Halle
ASEE Corporate Marketing

Students Constituent Committee
Katherine G. Nelson
Arizona State University

Systems Engineering Division
Fernando Garcia Gonzalez
Texas A&M International University

Tau Beta Pi
Curtis D. Gomulinski
 Tau Beta Pi Association, Inc.

Technological Literacy Constituent Committee
Steven R. Walk
Old Dominion University

Two-Year College Division
Melvin L. Roberts P.E.
Camden County College

Women in Engineering Education
Beth M. Holloway
Purdue University
Conference Sessions

Monday, June 24

From Idea to Impact: A Case Study for Sustainable Innovation
Dr. Daniel Raviv, Florida Atlantic University
Dr. Alex Kotlarchyk

Bending Moments to Business Models: Integrating an Entrepreneurship Case Study as Part of Core Mechanical Engineering Curriculum
Dr. Mark Schar, Stanford University
Dr. Sheri Sheppard, Stanford University
Ms. Samantha Brunhaver, Stanford University
Mr. Mark Cuson
Michelle Marie Grau, Stanford University

A Qualitative Study Into The Innovation And Technology Transfer Experience Of A Micro-Manufacturer Within A University-Industry Collaboration Context In Regional Australia
Dr. Steven Chingnam Goh, University of Southern Queensland

Reel Entrepreneurs: Illustrating Entrepreneurship with Feature Films
Dr. Zbignie J. Pasek, University of Windsor

Smart Phone App Development: A Multi-College Approach
Dr. Ravi T. Shankar, Florida Atlantic University
Mr. Francis Xavier McAfee, Florida Atlantic University
Dr. Michael S Harris, Florida Atlantic University
Dr. Ravi S Behara, Florida Atlantic University

M442 - FPD 2: Retention
12:30 p.m. - 2:00 p.m., Georgia World Congress Center, A309
Sponsor: First-Year Programs Division
Moderator: Richard Freuler, Ohio State University

The papers presented in this session focus on factors and challenges related to first-year retention in undergraduate engineering.

Retention in a First-Year Program: Factors Influencing Student Interest in Engineering
Dr. Lizzie Santiago, West Virginia University

The Effect of Required Introduction to Engineering Courses on Retention and Major Selection
Dr. Marisa Kikendall Orr, Louisiana Tech University
Dr. Catherine E. Brawner, Research Triangle Educational Consultants
Dr. Matthew W. Ohland, Purdue University, West Lafayette
Dr. Richard A. Layton, Rose-Hulman Institute of Technology

A Longitudinal Model To Increase The Enrollment And Graduation Of Alaska Native/American Indian Undergraduates
Dr. Herbert P. Schroeder, University of Alaska, Anchorage
Dr. Linda P. Lazzell, University of Alaska, Anchorage

Enhancing Retention and Achievement of Undergraduate Engineering Students
Dr. Anant R. Kukreti, University of Cincinnati
Mr. Kenneth Simonson, University of Cincinnati
Ms. Kristen Strominger, University of Cincinnati - School of Energy, Environmental, Biological and Medical Engineering
Prof. Urmila Ghia, University of Cincinnati

M443 - Future Of Graduate Education: An Industry Perspective
12:30 p.m. - 2:00 p.m., Georgia World Congress Center, A316
Sponsor: Graduate Studies Division
Moderator: Mohammad Noori, California Polytechnic State University
Speaker: Ms. Lueny Morell P.E., Hewlett-Packard Corporation

Ms. Lueny Morell, our distinguished speaker, will present her views on the future of graduate education. The presentation will be followed with a discussion on the role of industry.

M445 - Instrumentation Technical Session I
12:30 p.m. - 2:00 p.m., Georgia World Congress Center, A302
Sponsor: Instrumentation Division
Moderator: Asad Yousuf, Savannah State University

Instrumentation Division Instrumentation Technical Session I

Linear Model Estimation of Nonlinear Systems Using Least-Squares Algorithm
Dr. Alireza Rahrooh, Daytona State College
Dr. Walter W. Buchanan P.E., Texas A&M University
Dr. Remzi Seker, Embry-Riddle Aeronautical University

Portable Photovoltaic Laboratory for In-Service Teacher Workshops
Prof. Kenneth E. Dudeck, Pennsylvania State University, Hazleton Campus
Dr. Wieslaw Grebski, Pennsylvania State University, Hazleton Campus

Remote Demonstration Of Packaging
Prof. Akram Hossain, Purdue University, Calumet (Tech)
Dr. Mohammad A. Zahraee, Purdue University, Calumet (Tech)

Enhancements to a Propulsion Demonstrator
Dr. Rafic Bachnak, Texas A&M International University
Miss Sofia Carolina Maldonado, Texas A&M International University
Dr. Fernando Garcia Gonzalez, Texas A&M International University

Wireless Robot
Dr. Asad Yousuf, Savannah State University
Mr. Jarvis Brewer T, Savannah State University
Dr. Mohammad A. Mustafa, Savannah State University
Mr. Alberto G De La Cruz, Savannah State University
Faraz Muhammad Yousuf, 3-D Imaging Developer
Conference Sessions

M516 - TABLETS, MOBILE AND TECHNOLOGY
2:15 p.m. - 3:45 p.m., Omni CNN Center Hotel, Omni - Redwood
Sponsor: Computers in Education Division
Moderators: Wanda Eugene, Clemson University; Joseph Tront, Virginia Tech
The use of Tablet PCs, Slate devices and other mobile technology is investigated in this session.

Wireless Tablet PCs for enhanced teaching at an Australian regional university teaching both campus and distance modes
Dr. Steven Chingnam Goh, University of Southern Queensland
Dr. Linda Ann Galligan, University of Southern Queensland
Dr. Harry Ku, University of Southern Queensland
Using Mixed Mobile Computing Devices for Real-Time Formative Assessment
Prof. Frank V. Kowalski, Colorado School of Mines
Susan E. Kowalski, Colorado School of Mines
Dr. Tracy Q. Gardner, Colorado School of Mines
Building Technology Fluency: Fostering Agents of Change
Dr. Wanda Eugene, University of North Carolina - Charlotte
Dr. Shaundra Bryant Daily, Clemson University
Tiffany Barnes, NC State University
Richard Burns, West Chester University
Evaluation of the VTEXT Electronic Textbook Framework
John Oliver Cristy, Virginia Tech
Prof. Joseph G. Tront, Virginia Tech

M517 - INFORMATION AND NETWORK SECURITY
2:15 p.m. - 3:45 p.m., Georgia World Congress Center, A412
Sponsor: Construction Division
Moderator: Clifton Farnsworth, Brigham Young University
The presentations in this session focus on the integration of building information modeling (BIM) topics and techniques into the curricula, both broadly across the curriculum and within specific courses.

Energy Modeling/Simulation Using The BIM Technology In The Curriculum Of Architectural And Construction Engineering And Management
Dr. Hyunjoo Kim, The University of North Carolina at Charlotte
Strategy to Incorporate BIM Curriculum In Planning And Scheduling Classes
Dr. Marcel Maghbar, Georgia Southern University
Ms. Sunitha Jain, Hill International
Dr. James G. Sullivan, University of Florida
From BIM to Collaboration: A Proposed Integrated Construction Curriculum
Miss Arundhati Ghosh, Arizona State University
Kristen Parrish Ph.D., Arizona State University
Dr. Allan Dee chasey, Del E. Webb School of Construction, Arizona State University
Integrating Industry BIM Practices into University Curriculum
Prof. Kevin R. Miller, Brigham Young University
Dr. Clifton B. Farnsworth, Brigham Young University
Dr. Justin Earl Weidman, Brigham Young University

M518 - BUILDING BIM INTO CONSTRUCTION CURRICULA
2:15 p.m. - 3:45 p.m., Georgia World Congress Center, A303
Sponsor: Construction Division
Moderator: Clifton Farnsworth, Brigham Young University
The presentations in this session focus on the integration of building information modeling (BIM) topics and techniques into the curricula, both broadly across the curriculum and within specific courses.

Internet Accessible Remote Experimentation with Integrated Learning Management System
Dr. Abul K. M. Azad, Northern Illinois University
Munish Sharma, Northern Illinois University
Experiences Developing International Partnerships for Education and Research in Computing
Mr. Jason St. John, Purdue University, West Lafayette
Prof. Thomas J. Hacker, Purdue University, West Lafayette
Prof. Raymond A. Hansen, Purdue University
Ms. Natasha N. Nikolaidis, Purdue University
Robert M Trinkle, Purdue University, West Lafayette
IPv6 Security Course with Remote Labs – Design and Development
Mr. John Pickard, East Carolina University
Dr. Te-Shun Chou, East Carolina University

Dr. Philip J Lunsford II P.E., East Carolina University
John Spence,
Piloting a New Curriculum: A View from the Trenches
Dr. Krystal S. Corbett, Cyber Innovation Center
Dr. Chuck Gardner, New Orleans Military and Maritime Academy
Mr. Anthony Joseph Taffaro Jr., New Orleans Military and Maritime Academy
Mr. Marvin Nelson, Benton High School
A Study of Application of Data Mining Algorithms In Healthcare Industry
Dr. Reza Sanati-Mehrizy, Utah Valley University
Jeffrey H Wright
Dr. Afshaneh Minaie, Utah Valley University
Dr. Ali Sanati-Mehrizy
Paymon Sanati-Mehrizy, Icahn School of Medicine at Mount Sinai

Monday, June 24

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American Society for Engineering Education

2013 ASEE Annual Conference & Exposition Call for Papers

Important Dates and Deadlines

Information and Resources

- Author's Kit
- Abstract Submission
- Best PIC Paper and Best Conference Paper Competitions Rubric
- Call for Papers
- Draft Paper Format Example
- Poster Guidelines
- Professional Interest Council (PIC) Special Projects Fund - Application 2013
- Program Chair Kit
- Rationale for 2013 Fee Increases
- Workshop, Panel Session, and Distinguished Lecturer Criteria

Submitting your abstract

First, carefully read through the Author's Kit for important dates and instructions on the paper review process. Then log in to the Paper Management System to submit abstracts, conduct reviews, and manage your papers.

ALL DIVISIONS ARE "PUBLISH TO PRESENT"

In order to strengthen the quality of conference proceedings, the ASEE Board of Directors has voted on a policy of "Publish to Present" at the ASEE Annual Conference. This policy, which requires presentation to be peer reviewed, seeks to ensure that intellectual activity by faculty and staff receives appropriate professional recognition.

In addition to Publish to Present sessions, Divisions may submit Panel sessions. To submit a Panel session Divisions are asked to provided white papers (extended abstracts) in no more than four pages consisting of two pages of session description, and two pages of bios. The PIC Chairs will review the Panel sessions submitted and determine their viability to the conference (please check the appropriate field/column for submitting a Panel session through the ASEE paper submission system).
The process for the submission of ASEE Annual Conference papers is as follows: Once authors have submitted abstracts of their papers, these will be reviewed and evaluated as acceptable or not. Authors of acceptable abstracts will be invited to submit a full paper draft to be reviewed by at least three engineering educators. A draft paper may be accepted as submitted, accepted with minor changes or major changes, or rejected. If a paper requiring major changes is re-submitted, the author will be asked to provide an explanation to the Division Program Chair as to how the paper revision has addressed the reviewer's concerns. The Division Chair may then decide to accept or reject the paper.

Authors of accepted papers may also choose to present through a poster session rather than the lecture format of the technical sessions. The ASEE poster sessions will now showcase authors of accepted papers who have selected this format or whose papers have been assigned as a poster due to lack of space in the technical sessions. Exceptions to the "Publish to Present" requirement include invited speakers and panels. Divisions may also designate one of their technical sessions as a "panel" of speakers submitting poster presentations.

The presentation of research and program findings within a conference setting provides a valuable means of exchanging information and ideas. While the majority of papers presented at the ASEE annual conference already undergo review at the abstract, draft, and final paper stages, the Board feels confident that a rigorous process of review will safeguard the quality of all paper presentations and ensure the prestigious reputation of this important conference.

DIVISIONS ACCEPTING ABSTRACTS FOR 2013:

- Aerospace (AERO)
- Architectural Engineering
- Biological and Agricultural Engineering (BAE)
- Biomedical Engineering (BED)
- Chemical Engineering (ChED)
- Civil Engineering
- College-Industry Partnership (CIP)
- Community Engagement in Engineering Education (CEE)
- Computers in Education (CoED)
- Computing and Information Technology
- Construction Engineering
- Continuing Professional Development (CPDD)
- Cooperative Education and Experiential (CEED)
- Design in Engineering Education (DEED)
- Division of Experimentation and Laboratory-Oriented Studies (DELOS)
- Educational Research and Methods (ERM)
- Electrical and Computer Engineering (ECE)