

## **2012 ASEE Inaugural International Forum**

**June 9-10, 2012, San Antonio, Texas**

### **About the International Forum**

On June 9 and 10, ASEE will host an International Forum in collaboration with sister societies devoted to engineering education from India, Japan, Malaysia, and Korea. There will be one plenary devoted to innovations in engineering education in each of these nations. The 1.5 day Forum (all day Saturday and Sunday through Noon) will highlight bi-lateral educational activities focused on student development, curricular and laboratory development, and faculty development. There will also be hands-on interactive sessions led by industry showcasing applications of learning technologies in engineering.

### **International Forum Advisory Committee**

**Eck Doerry**

Chair-elect of the International Division  
(Northern Arizona University)

**Peter Janzow**

Past Chair of CMC  
(Pearson Education)

**Paul Percy, Chair**

ASEE International Advisory Committee  
(University of Wisconsin-Madison)

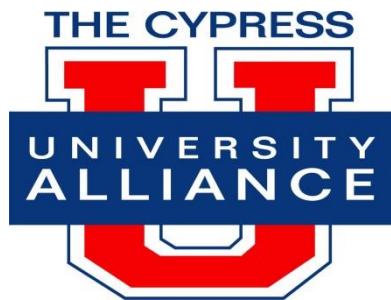
## Participating Organizations

ASEE gratefully acknowledges the following societies for participating in the Inaugural International Forum

### **Participating and Focus Societies**

- Indian Society for Technical Education (ISTE) - <http://www.isteonline.in/>
- Japanese Society for Engineering Education (JSEE) – <http://wwwsoc.nii.ac.jp/jsee/>
- Korean Society for Engineering Education (KSEE) – <http://www.ksee.org/>
- Regional Centre for Engineering Education - Malaysia (RCEE) – <http://tree.utm.my/>

Thank you to our Corporate Sponsors



[S101A· Saturday Registration & Exhibits Open](#)

Hq · ASEE International Forum

Sat. June 9, 2012 8:00 AM to 5:00 PM

Hilton Palacio del Rio, Salon Foyer

Session Description

Registration and Exhibits Open

[S101B· Saturday Continental Breakfast](#)

Hq · ASEE International Forum

Sat. June 9, 2012 8:00 AM to 8:30 AM

Hilton Palacio del Rio, Salon Foyer

Session Description

Continental Breakfast

[S101C·Main Plenary 1 - Sponsored by AMD: Establishing Innovative Strategies Through the Virtuous Cycle of Research in Engineering Education Regional Centre for Engineering Education - Malaysia \(RCEE\)](#)

Panel · ASEE International Forum

Sat. June 9, 2012 8:30 AM to 10:00 AM

Hilton Palacio del Rio, Salon South

Session Description

Co- Presented Main Plenary 1

- Moderated by Dr. Paul S. Peercy

Speakers

- Dr. Vincent P. Manno

Franklin W. Olin College of Engineering

Vincent P. Manno, Provost and Dean of Faculty, Professor of Engineering, Franklin W. Olin College of Engineering

Keynote Presentation:

*Educating the Next Generation of Engineering Innovators: Some Reflections from the Olin College Experience*

- *Establishing Innovative Strategies Through the Virtuous Cycle of Research in Engineering Education* - Dr. Khairiyah Mohd Yusof (Regional Centre for Engineering Education - Malaysia (RCEE)), Ms. Fatimah Puteh (Regional Centre for Engineering Education - Malaysia (RCEE)), Syed Helmi Syed Hassan (Universiti Teknologi

Malaysia), Dr. Zainura Zainoon Noor (Universiti Teknologi Malaysia), and Dr. Ariffin Abu Hassan (Affiliation unknown)

### [S201·AM Refreshment Break](#)

**Hq** · ASEE International Forum

Sat. June 9, 2012 10:00 AM to 10:30 AM

Hilton Palacio del Rio, Salon Foyer

Session Description

AM Refreshment Break

### [S301·Networking Lunch - Sponsored by Boeing](#)

**Business** · ASEE International Forum

Sat. June 9, 2012 12:00 PM to 1:00 PM

Hilton Palacio del Rio, Salon North & Center

Session Description

International Forum Networking Lunch

### [S302·Track 1 - Student Development](#)

**Technical** · Track 1 - Student Development

Sat. June 9, 2012 10:30 AM to 12:00 PM

Hilton Palacio del Rio, La Carona

Session Description

Track 1 - Student Development

This program track welcomes scholarly reports on efforts to develop and assess desired student learning outcomes across an array of technical and non-technical knowledge, skills, and abilities.

- Moderated by Dr. Hans J. Hoyer
- *An Innovative Approach to an Integrated Design and Manufacturing Multi-site “Cloud-based” Capstone Project* - Dr. Michael Richey (The Boeing Company)
- *Engineering Education in India – Need for International Collaboration for Student Development* - Prof. D. N. Reddy (Indian Society for Technical Education,)
- *On-Line Teaching as a Tool for Global Engineering Education: From the Experiences of the Global Education Center for Engineers, South Korea* - Hyungsub Choi (Seoul National University)
- *JSEE Engagement with AEESEAP to Support International Students Studying in Japan* - Prof. Masahiro Takei (Chiba University)
- *MyLine: Providing resources for learning in English On-line* - Ms. Fatimah Puteh (Universiti Teknologi Malaysia)

### [S303·Track 2 - Curriculum and Laboratory Development](#)

**Technical** · Track 2 - Curriculum and Laboratory Development

Sat. June 9, 2012 10:30 AM to 12:00 PM

Hilton Palacio del Rio, La Vista  
Session Description

Track 2 - Curriculum and Laboratory Development

**CURRICULUM DEVELOPMENT:** This program track welcomes scholarly reports on the efforts to (a) develop innovative materials that incorporate effective educational practices to improve student learning, including the development of textbooks or software, and (b) improve education in engineering and technology at academic institutions through adaptation and implementation of exemplary materials, laboratory experiences, and/or educational practices that have been developed and tested at other institutions.

**LABORATORY DEVELOPMENT:** This program track welcomes scholarly reports on innovative means providing students with hands-on opportunities to (a) acquire technical skills and knowledge, (b) integrate theoretical knowledge with practical skills, and (c) learn to use fundamental and advanced technical tools and methods.

- Moderated by Dr. Eck Doerry
- *International Collaboration in Curriculum and Laboratory Development* - Dr. K. P. Isaac (All India Council for Technical Education (AICTE))
- *Introductory Teaching Plan of Elementary Engineering Design for Freshmen Majoring in Civil and Environmental Engineering* - Ji-Ho Park (Pennsylvania State University)
- *Comparison of Practical Training Experiences for Electronics Engineers in China and the U.S.A.: Case Study of Southeast University and the University of San Diego* - Prof. Yongming Tang (Southeast University) and Dr. Susan M Lord (University of San Diego)
- *Six Years of Success in Implementation of a 3 + 1 Transfer Program in Engineering Technology Between Universities in China and the United States* - Prof. Scott I. Segalewitz (University of Dayton)
- *Student Development through the UTM-DTU International Summer Course on Sustainable Consumption and Production* - Dr. Zainura Zainoon Noor (Universiti Teknologi Malaysia)

[S304·Track 3 - Faculty Development](#)

**Technical** · Track 3 - Faculty Development

Sat. June 9, 2012 10:30 AM to 12:00 PM

Hilton Palacio del Rio, La Reina

Session Description

This program track welcomes scholarly reports on efforts to enhance faculty knowledge of (a) new and emerging technical areas, as well as (b) proven and innovative teaching methods including knowledge of effective student assessment methods. There is particular interest in how faculty are prepared to integrate this knowledge into courses, curricula, and laboratories.

- Moderated by Dr. Paul S. Peercy

- *Mission10X Transforming Teachers for Enhancing Employability Skills of Engineering Graduates* - Mr. Nagarjuna Sadineni (Mission10X Wipro Technologies) and Dr. Rajendra Kumar Joshi (WIPRO Technologies)
- *International Collaboration in Faculty Development for Life Long Learning* - Dr. R. Murugesan (Anna University of Technology Madurai )
- *Consulting Activities for Faculty Development and Case Studies for Problem-based Learning Course in Engineering Education* - Prof. Minhee Shin (Seoul National University of Technology)
- *Developing capabilities for training engineering faculty members in effective teaching and learning methods* - Dr. Khairiyah Mohd Yusof (Universiti Teknologi Malaysia), Syed Helmi Syed Hassan (Universiti Teknologi Malaysia), and Prof. Mohd Salleh Abu (Affiliation unknown)
- *Predictors of Dissemination Success of Engineering Learning Innovations Across Countries: A Workshop* - Dr. Chetan S Sankar (Auburn University), Dr. L. Allison Jones-Farmer (Auburn University), and David Bourrie (Auburn University)

[S401·Main Plenary 2 - Establishing Innovative Strategies Through the Virtuous Cycle of Research in Engineering Education - Korean Society for Engineering Education \(KSEE\)](#)

**Panel** · ASEE International Forum

Sat. June 9, 2012 1:00 PM to 2:30 PM

Hilton Palacio del Rio, Salon South

Session Description

Co-Presented Main Plenary 2

- Moderated by Dr. Eck Doerry
- *Engineering Education in Korea - Status and Challenges* - Mr. Woon Kyung Kim (Korean Society for Engineering Education (KSEE))
- *Accreditation of Engineering Education in Korea* - Prof. Wonjong Joo (Seoul National University of Science and Technology)
- *Current Status of Engineering Ethics Education in Korea* - Prof. Dong Joo Song (Yeungnam University)

[S501D·PM Refreshment Break](#)

**Hq** · ASEE International Forum

Sat. June 9, 2012 2:30 PM to 3:00 PM

Hilton Palacio del Rio, Salon Foyer

Session Description

PM Refreshment Break

[S502·Track 1 - Session 2 - Student Development](#)

**Technical** · Track 1 - Student Development

Sat. June 9, 2012 3:00 PM to 4:30 PM

Hilton Palacio del Rio, La Carona

## Session Description

This program track welcomes scholarly reports on efforts to develop and assess desired student learning outcomes across an array of technical and non-technical knowledge, skills, and abilities.

- Moderated by Mr. Pete Janzow
- *Developing a Cross-Cultural Model of Problem Solving: Comparing U.S. and Indian Engineering Undergraduates* - Dr. Roman Taraban (Texas Tech University)
- *Engineering Education Around the World: A Student Perspective* - Jennifer DeBoer (SPEED)
- *Nurturing Students for Next Generation Challenges* - Ms. Baldev Raj (Indian Society for Nondestructive Testing (GEEP))
- *Design Educations for Students at Mechanical Engineering* - Haeseong J. Jee (Hong-Ik University)
- *Cross-cultural active learning: Preliminary Results of a Case Study of an American Professor Teaching in China* - Dr. Susan M Lord (University of San Diego), Prof. Yongming Tang (Southeast University), Dr. rong wang (Southeast University), and Dr. Shen Xu (Southeast University, China)

### [S503·Track 2 - Session 2 - Curriculum and Laboratory Development](#)

**Technical** · Track 2 - Curriculum and Laboratory Development

Sat. June 9, 2012 3:00 PM to 4:30 PM

Hilton Palacio del Rio, La Vista

## Session Description

**CURRICULUM DEVELOPMENT:** This program track welcomes scholarly reports on the efforts to (a) develop innovative materials that incorporate effective educational practices to improve student learning, including the development of textbooks or software, and (b) improve education in engineering and technology at academic institutions through adaptation and implementation of exemplary materials, laboratory experiences, and/or educational practices that have been developed and tested at other institutions.

**LABORATORY DEVELOPMENT:** This program track welcomes scholarly reports on innovative means providing students with hands-on opportunities to (a) acquire technical skills and knowledge, (b) integrate theoretical knowledge with practical skills, and (c) learn to use fundamental and advanced technical tools and methods.

- Moderated by Dr. Eck Doerry
- *International Collaboration in Curriculum and Laboratory Development* - Prof. R. Natarajan (Indian Institute of Technology)
- *Effect of Women in Engineering Programs on Career Development of Female Engineering Students* - Dong Ik Kim (Kunsan University)
- *Collaborative Efforts in Developing the PhD in Engineering Education Program in Universiti Teknologi* - Dr. Khairiyah Mohd Yusof (Universiti Teknologi Malaysia)



- *Problem-Based Learning Pedagogy Transfer Across Cultures: Challenges and Opportunities* - Dr. Kinda Khalaf (KUSTAR)

### S504·Track 3 - Session 2 - Faculty Development

**Technical** · Track 3 - Faculty Development

Sat. June 9, 2012 3:00 PM to 4:30 PM

Hilton Palacio del Rio, La Reina

Session Description

This program track welcomes scholarly reports on efforts to enhance faculty knowledge of (a) new and emerging technical areas, as well as (b) proven and innovative teaching methods including knowledge of effective student assessment methods. There is particular interest in how faculty are prepared to integrate this knowledge into courses, curricula, and laboratories.

- Moderated by Dr. Paul S. Peercy
- *Development of a Teaching Learning Centre and Ongoing Faculty Development Programs - A Case Study* - Dr. Prasad Edamana (Indian Institute of Technology Madras (IIT M), India), Ajit Kumar Kolar (Affiliation unknown), Pramod S. Mehta (Affiliation unknown), Dr. Sujatha Srinivasan (Indian Institute of Technology Madras), and Dr. Jefferey E. Froyd (Texas A&M University)
- *Role of Universities in International Collaboration in Engineering Education - Faculty Development* - Prof. Mohan Khedkar (Sant Gadge Baba Amravati University, Amravati)
- *The Educational Effects of Course Portfolio in Korean Engineering Education* - Kang SoYeon (Yonsei University)
- *Developing Quality Engineering Programs* - Dr. Ariffin Abu Hassan (RCEE)
- *LACCEI Initiatives for Faculty Leadership and Development: Enhancing Engineering Program Quality in the Americas and Beyond* - Dr. Zenaida Otero Gephardt (Rowan University), Dr. Ivan E. Esparragoza (Pennsylvania State University, Media), and Dr. Maria M. Larrondo Petrie (Florida Atlantic University)

### S601·Main Plenary 3 - The Indo US Collaboration for Engineering Education (IUCEE)

**Panel** · ASEE International Forum

Sat. June 9, 2012 4:30 PM to 6:00 PM

Hilton Palacio del Rio, Salon South

Session Description

Co-Presented Main Plenary 3

- Moderated by Mr. Pete Janzow
- *An Overview of the Contemporary Issues in Engineering Education in India* - Dr. R. Natarajan (Indian Institute of Technology) and Dr. K. P. Isaac (Affiliation unknown)
- *ISTE Activities for promoting International Collaboration in Engineering Education* - Dr. R. Murugesan (Affiliation unknown)

- *INAE Activities for promoting International Collaboration in S&T and Innovation* - Ms. Baldev Raj (Indian Society for Nondestructive Testing (GEEP))
- *Professional Society Activities for promoting International Collaboration* - D. N. Reddy (Affiliation unknown)
- *Role of Universities in International Collaboration in Engineering Education* - Mohan Khedkar (Affiliation unknown)
- *An Agenda for Future Directions for Enhancing International Collaboration among Faculty, Students, Curricular, and Laboratory Development* - Dr. R. Natarajan (Indian Institute of Technology), Dr. K. P. Isaac (Affiliation unknown), Mohan Khedkar (Affiliation unknown), Ms. Baldev Raj (Indian Society for Nondestructive Testing (GEEP)), and Dr. R. Murugesan (Affiliation unknown)

[S701·International Forum Poster Session & Welcome Reception: Sponsored by Quanser and Cypress Semiconductors](#)

Poster · ASEE International Forum

Sat. June 9, 2012 6:00 PM to 7:30 PM

Hilton Palacio del Rio, Salon North & Center

Session Description

International Forum Welcome Reception & Poster Session

1. *Improving Students Learning in Construction Engineering Using Case Study* - Dr. Ellie H Fini (North Carolina A&T State University), Dr. Mahour M. Mellat-Parast (NC A&T State University), and Dr. Sameer Hamoush (North Carolina A&T State University)
2. *Student's Teamwork Evaluation: An Effective Model* - Dr. Sabah Razouk Abro (Lawrence Technological University) and Prof. Kenneth Cook P.E. (Lawrence Technological University)
3. *International Community Engagement Stakeholder Analysis* - Kristine Louise Guzak (Michigan Technological University)
4. *Course Assessment; A consistent Model* - Dr. Sabah Razouk Abro (Lawrence Technological University) and Mr. Jerry Cuper (Lawrence Technological University)
5. *Time-on-Task: A Pedagogical Measure To Assesses Differences in U.S. and Indian Engineering Curricula and Outcomes* - Dr. Roman Taraban (Texas Tech University)
6. *A Multinational Master's Degree Program in Electronic Product Engineering* - Prof. Helmuth Gesch (University of Applied Sciences Landshut, Germany), Dr. Richard O Gale (Texas Tech University), and Dr. Tanja Karp (Texas Tech University)
7. *Development of Food Process and Engineering Course For Non-Engineering Students* - Dr. Kasiviswanathan Muthukumarappan (South Dakota State University)
8. *Predictors of Dissemination Success of Engineering Learning Innovations Across Countries: A Workshop* - Dr. Chetan S Sankar (Auburn University), Dr. L. Allison Jones-Farmer (Auburn University), and David Bourrie (Auburn University)
9. *LACCEI Initiatives for Faculty Leadership and Development: Enhancing Engineering Program Quality in the Americas and Beyond* - Dr. Zenaida Otero Gephardt (Rowan University), Dr. Ivan E. Esparragoza (Pennsylvania State University, Media), and Dr. Maria M. Larrondo Petrie (Florida Atlantic University)

10. *International Faculty Development for Role-Play Simulations and Delivery Tools* - Dr. Ray Luechtefeld (University of La Verne)
11. *Design, Build, and Test of Engineering Development Spacecraft Hardware in a Satellite Design Course at the Air Force Institute of Technology* - Lt. Margaret Pearl Lyn Blackstun (Air Force Institute of Technology)
12. *A Case study for Problem-based Learning Course in Environmental Engineering Program* - Hyun-sang Shin (Seoul National University of Technology)
13. *Case studies for Problem-based Learning Course and Project-based Learning Course in Engineering Education* - Prof. Minhee Shin (Seoul National University of Technology) and Hyun-sang Shin (Seoul National University of Technology)
14. *The effect of softskill training course on students' perceived teamwork ability, self-regulated learning ability and critical thinking skills in Engineering Education* - Prof. Minhee Shin (Seoul National University of Technology)
15. *A study on Assessment Method and Rubrics of Program Outcomes related to Softskills* - Prof. Minhee Shin (Seoul National University of Technology)
16. *The Current Status of Engineering and Technology Education in Taiwan* - Prof. Min Jou (National Taiwan Normal University)
17. *High School Teachers Engineering Education Professional Development: Foundations for Attracting and Engaging Future Engineers* - Dr. Christina Kay White (University of Texas, Austin) and Joules Webb (Transformation 2013 Texas STEM Center)
18. *High School Teachers Engineering Education Professional Development: Foundations in Attracting and Engaging Future Engineers* - Dr. Christina Kay White (The University of Texas, Austin)

[S701B·Reception Ticket - Unregistered Guest](#)

**Social** · ASEE International Forum

Sat. June 9, 2012 6:00 PM to 7:30 PM

Hilton Palacio del Rio, Salon North & Center

Session Description

**Ticketed event: \$40.00 advanced registration and \$50.00 on site registration.**

Ticket for Unregistered Guest

[U101A· Sunday Continental Breakfast](#)

**Hq** · ASEE International Forum

Sun. June 10, 2012 8:00 AM to 8:30 AM

Hilton Palacio del Rio, Salon Foyer

Session Description

Continental Breakfast

[U101B·Sunday Registration and Exhibits Open](#)

**Hq** · ASEE International Forum

Sun. June 10, 2012 8:00 AM to 12:00 PM

Hilton Palacio del Rio, Salon Foyer

Session Description

Registration and Exhibits Open

[U106-Industry Lead Interactive Session - Presented by Purdue University](#)

**Technical** · Purdue University - Industry Lead Interactive Session

Sun. June 10, 2012 8:30 AM to 10:00 AM

Hilton Palacio del Rio, La Vista

Session Description

*Attributes of a Global Engineer Project*

- Moderated by Dr. Eck Doerry
- *The Attributes of a Global Engineer: International Faculty Development Considerations* - Dr. Stephen Hundley (Indiana University Purdue University, Indianapolis), Ms. Lynn G Brown (The Boeing Company), Prof. Patricia Fox (Indiana University Purdue University, Indianapolis), Mr. Alan Jacobs (Education Market Business Development Consultant), Ms. Catherine Didion (National Academy of Engineering), and Mr. Daniel R. Sayre (John Wiley & Sons, Inc.)

[U107-Industry Lead Interactive Session - Presented by Bentley Systems](#)

**Technical** · Bentley Systems - Industry Lead Interactive Session

Sun. June 10, 2012 8:30 AM to 10:00 AM

Hilton Palacio del Rio, La Carona

Session Description

*Substance Creation is the New Industry Sponsorship*

- Moderated by Mr. Pete Janzow
- *Substance Creation is the new Corporate Sponsorship* - Martin Pflanz (Bentley Systems) and Mr. Ed Wright (Bentley Systems)

[U108-Industry Lead Interactive Session - Presented by Hewlett-Packard Laboratories](#)

**Technical** · Hewlett-Packard Laboratories - Industry Lead Interactive Session

Sun. June 10, 2012 8:30 AM to 10:00 AM

Hilton Palacio del Rio, La Reina

Session Description

*Externally Funded Postdocs and Internship Opportunities at HP Labs*

- Moderated by Dr. Paul S. Peercy
- *Externally Funded Postdocs and Internship Opportunities @ HP Labs* - Mrs. Lueny Morell (Hewlett-Packard Corporation)

[U201-AM Refreshment Break](#)

**Hq** · ASEE International Forum

Sun. June 10, 2012 10:00 AM to 10:30 AM  
Hilton Palacio del Rio, Salon Foyer  
Session Description

AM Refreshment Break

[U301·Main Plenary 4 - Follow up of Global Forum in Shanghai](#)

**Panel** · ASEE International Forum

Sun. June 10, 2012 10:30 AM to 12:00 PM  
Hilton Palacio del Rio, Salon South  
Session Description

Follow-up to the ASEE International Symposium in Shanghai, China

2011 Chair: Dean Tom Katsouleas

Speakers

- Prof. Tom Katsouleas

Duke University

Chair 2011 Shanghai Meeting

## Registration

We look forward to you joining us at the American Society for Engineering Education in San Antonio, TX for the Inaugural International Forum on Saturday, June 9 & Sunday, June 10 at the Hilton Palacio del Rio in San Antonio, TX.

Please note, the registration system will take you through a login screen first. If you are a member of ASEE, simply log in with your email as your username and your password. For those of you who are not members of ASEE, you will be asked to create an account first. Once your account is created, you will be able to log into the registration system.

Checks should be drawn on U.S. Banks and made payable to ASEE Convention & Seminar Corporation

## Registration Rates

Registration	\$350 (before June 9)	\$400
Welcome Reception	\$40 (before June 9)	\$50

## Cancellation Policy

A refund (less a \$50 processing fee) will be given for cancellations received in writing on or before May 25, 2012. Please send requests to the ASEE Registrar via email ([registrar@asee.org](mailto:registrar@asee.org)), fax (202) 265-8504, or mail (ASEE/International Forum 2012, 1818 N Street NW, Suite 600, Washington, DC 20036). No cancellations will be accepted for refunds after May 25, 2012. Refunds cannot be made for no shows. There are no exceptions to this policy. If you have any questions, please contact ASEE Registrar, at (202) 331-3534 or [registrar@asee.org](mailto:registrar@asee.org).