Recent Activity of the ASEE for International Cooperation in Engineering Education

Walter W. Buchanan
ASEE President-Elect

Engineering Education in India, Far East and Central Asia

- Globalization of Higher Education: A Case Study from India
- A Comparative Study of Land Surveying Education at the University of Lagos and the Pennsylvania State University
Exporting of Higher Education to Developing Countries

- Transforming Middle East Economies Through Education, Research and Innovation
- On Engineering Education Reform in the Arab States: A Path Forward
- Globalization From a Small Country Perspective
- Implementing Senior Design Projects in the Developing World
- Challenges and Opportunities in Strengthening Higher Education in Afghanistan

Global Engineering Education: Intercultural Awareness & Competence International Experience

- Evaluation of Intercultural Learning in an Education Abroad Program for STEM Undergraduates
- Developing Global Competence Through Cross-Cultural Virtual Teams: Preliminary Observations
- The Effect of International Diversity on Graduate Engineering Education: A literature Review
- Assessing Intercultural Competence among Sophomore Mechanical Engineering Students: Baseline Data and Analysis
- Impact of Cross-Cultural Study Experiences on Cultural Sensitivity Development
- Global Engineering Attributes and Attainment Pathways: A Study of Student Perceptions
- Global Experiential Learning for Engineering Technology
Global Engineering Models: Developments, Implementation

- Developing Microfabrication Capabilities Across the Americas: A Case Study
- Overcoming the Current Challenges of Promoting and Enhancing International Options Within Engineering Education
- Developing a Spanish-Speaking Community of Engineering Education Research Scholars

International Initiatives, Partnerships, Teaching Strategies & Approaches

- Implementing Bologna: An Assessment of a Unified Modern Approach to Teach Thermodynamics an Heat Transfer
- Green Initiative in Campus Followed by Curriculum Development of a Course Concentrating on Selected Choices of Alternative Energy Sources in EET Program in Terms of Global and Environmental Impacts
- Integrating Communication as a New Learning Component into Chinese Software Engineering Program
- A Multinational 1–2–1 Electrical Engineering Program
- An Update on the Partnership Between University of Hartford and Heart University to Boost Engineering Education
Preparing Engineers for the Global Workplace and Success

- An Investigation of First Year Students’ Perceptions of Global Awareness
- Developing the Next Generation of Technology Leaders in Challenging Times: The US NSF–ASEE Industry Research Fellows Program
- The Engineering Professor of 2020: The Forgotten Variable

Scholar Program Proposal/Develop Courses and Materials Collaborations and Accreditation Systems for Global Engineering Education

- Fulbright Scholar Program Proposal
- Creation of a Greater Regional Engineering Accreditation System
- A collaborative Effort to Teach Technology and Engineering Concepts to Middle School and High School Students in the Dominical Republic
Opportunities and Challenges in International Engineering Research and Capacity Building

- Establishing Entrepreneurial Opportunities for the Developing World Using Engineering Design
- The Key Factors to Enhance the Competitiveness of Competitors in World Skills Competition

Faculty and Program Exchanges: Internationalizing, Collaborations, Interactions

- International Collaboration in an Undergraduate Control Systems Course
- The Value of Exchange: the Benefits of Intercultural Engineering Study – A Design Team Perspective
- Forming Collaborative Links Between Turkey and US: International Workshop on Rapid Technologies
- International Collaboration Through the Swiss Darwin21 Design Competition
- Experiences From an International Student and Staff Exchange Program and Some Still Unsolved Mysteries
- A Workshop for Indian Engineering Faculty Under the INDO–US Collaboration in Engineering Education
- Fostering International Faculty Collaboration Through Student Exchange Programs With a Research Component
Engineering Education in Africa and the Middle-East Region

- Transforming Middle-East Economies Through Education, Research and Innovation
- The Rapid Development of Computer Science and Information and Communication Technology (ICT) Courses at Higher Education Institutions in Afghanistan
- A Geomatics Engineering Curriculum for Enhancing the Professional Capacity of the Graduate Surveyor at the University of Lagos, Nigeria
- Experience With Using the X0–1 (OLPC–ONE Lap Top Per Child) to Jump Start Pre-Engineering and Science Education in Rural Uganda

International Study Abroad Programs and Student Engagements

- Study Abroad to See the World and Become a Better Engineer
- EPLUM Model of Student Engagement: Expanding Non-Travel Based Global Awareness, Multidisciplinary Teamwork and Entrepreneurial Mindset Development
- Five Years of Short-term Study Abroad Programs: Engineering in a Global and Societal Context
- The Performance of US Exchange Students Abroad, a Longitudinal Study