



The International Division Newsletter

Spring 2011

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Editor's Welcome

In this issue we move closer towards the election of new officers. In the message from the Chair you will find information related to the election process and a listing of the candidates. At the end of this newsletter you will find information submitted for each candidate so that you can make an informed vote. Please review the materials and vote when you receive your ballot!

For the summer newsletter I once again make a request to our membership: **Have you read a good book that is related to international engineering efforts? If so, consider doing a short review for our readers.** Send your idea/review to me and I will plan its inclusion in a future newsletter.



Message from the Chair

So, here we are in March with the usual "March Madness" all around us. For the International Division, March Madness means election time. In odd years, as this year, we need to elect the next Vice-Chair/Chair Elect and the Secretary/Treasurer. The Vice-Chair/Chair Elect will serve as Vice-Chair for the next two years (2011-2013) and then succeed to Chair for a further two years (2013-2015). The Secretary/Treasurer serves for the next two years (2011-2013). The two individuals elected will take office at the conclusion of the International Division's Business Meeting at the Annual ASEE Conference in Vancouver, British Columbia, Canada in June.

We have two candidates for each position. For Vice-Chair/Chair Elect, Eck Doerry and Crisitan Penciu are the candidates and for Secretary/Treasurer, Jan Helge Bøhn and Peter Golding are the candidates. Please read their brief biographies on the following pages.

Ballots will be e-mailed on or about April 8st. Please return them by April 22th. Instructions will be included on the ballot.

I look forward to visiting with each of you in Vancouver. I do hope that you plan to attend this year's conference. It is always good to catch up on what has happened during the previous year.

Gerry Johnson

Below are the duties for the Chair Elect. Then the two candidate statements follow.

The CHAIR-ELECT, also known as VICE CHAIR, shall:

- Act for the Chair at business meetings and Executive Committee meetings in the event of the Chair's absence.
- Succeed the Chair upon completion of his/her term in office.
- Take office as Chair, as specified in [E-3-a] above, in the event of the resignation or death of the Chair before his/her term is completed.

Chair duties (for chair-elect candidates)

The CHAIR shall:

- Have administrative responsibility for the conduct of all functions of the unit in accordance with these by-laws and the policies and procedures established by the Executive Committee.
- Schedule, organize and conduct annual business meetings of the unit and all meetings of the Executive Committee.
- Appoint all standing committees authorized by these by-laws and special committees authorized by the Executive Committee.
- Compile an annual report of the activities of the unit as requested by the Secretary of the Society.
- Assure that official cash disbursement signatures are on file at Society headquarters and approve all expenditures of Society funds.
- Represent the Division on the Council Board of the Professional Interest Council IV



Eck Doerry

I've been involved in Engineering Education since joining Northern Arizona University in 1999. Soon after my arrival, I took over the reins of our college's international committee, and was very active in promoting internationalization; some initiatives included:

- established strong ties to a number of European partner institutions;
- developed a model of "reciprocal ice-breaker visits" for introducing students to international studies and motivating internationalization;
- worked actively to overcome inflexibility in all engineering programs related to allowing substitution of foreign equivalents to key core courses in NAU engineering curricula.
- received an NSF grant for major curricular improvement to develop a proposed concept of a "global engineering college" in which international experiences (including but not limited to international study and internships) would be integrated into engineering curricula through our college.
- have been active at the professional level in international engineering education:
- have published several papers and book chapters related to international engineering education (including one at this year's ASEE conference in Vancouver).

I have also attended the International Engineering Colloquium three times over the last 10 years, and know John Grandin well (although I just met Sigrid Berka formally this last November in Newport).

I'm also an experienced administrator, having chaired the Computer Science Department for a number of years. A related accomplishment during this time was creating a new Applied Computer Science program with specific foreign language requirements, to prepare graduates for work in international development teams.



Cristian Penciu

Cristian Penciu has a multi-disciplinary engineering background that includes a B.S. in Mechanical Engineering from The University of Texas at Austin and a M.S. and Ph.D. in Electrical Engineering/Optics from The University of Texas at Dallas. His experience in the industry ranges from product development and application engineering, to sales and marketing and business development. As Director of International Sales and Marketing for a multi-billion dollar company, Cristian managed a multinational sales organization comprised of direct and indirect sales and application engineers. He built strong customer relationships based on good understanding of customers' technical and business needs. That position allowed him to interface and collaborate with engineers in many different countries. In his current position as Dean of Electronics at DeVry University – Dallas, Cristian oversees ABET accredited programs in Electronics Engineering, Computer Engineering, and Biomedical Engineering Technology. He serves as a reviewer for ASEE and peer reviewed journals, participates as a volunteer during ABET accreditation visits, and acts as the Dean of the local chapter of NSBE. Cristian has a high interest in renewable energy sources especially derived from solar energy. He is currently working on a DOD sponsored project to develop a novel solar based renewable energy system.

Below are the duties for the Secretary/Treasurer. Then the two candidate statements follow.

The SECRETARY/TREASURER shall:

- Oversee and maintain the financial records of the unit and regularly report on financial status to the Executive Committee.
- Collect unit income, if any, and disburse monies authorized by the unit Chair.
- Keep records of all the unit's outstanding receivables and payables.
- Ensure that all the unit's financial activities conform to the standards and procedures set forth in the ASEE Financial Policy Manual, which is available from the ASEE Accounting department.
- Record the minutes of Executive Committee meetings and the annual business meeting, and distribute copies of the minutes to appropriate unit and Society officers.
- Be responsible for the official records of the Executive Committee and the unit, and ensure that the files of the unit are passed along to his/her successor.
- Tabulate, verify, and communicate the results of unit elections and other ballots.

Peter Golding advances and supports diversity in international engineering education research and development programs, including undergraduate curricula reform, student exchanges and global programs, and engineering education graduate studies development at The University of Texas at El Paso (UTEP), where he serves engineering students and the College of Engineering as Associate Dean for Undergraduate Studies and Engineering Education Research. Educated in Australia, “Pedro,” as his UTEP students call him, understands international engineering education from personal experience. He holds a doctorate from Monash University in Australia and in 1993 was honored as a Fellow of the Institute of Engineers Australia.

Peter commits to help ASEE advance worldwide leadership in engineering education, through active engagement with global stakeholders and increasing prominence of international communications. “ASEE has the talent and capacity to be a game changer. My vision is for us to forge more dynamic international relationships that foster and prosper international collaborations for everyone. Please give me the chance to help all constituencies in our International Division and through so doing make the difference we seek in the world!”



PHOTO: Peter Golding and daughter Hannah, who is a Senior Mechatronics Engineering student and who has as an Undergraduate Student has already completed studies on three continents: at Monash University (Australia), the Royal Institute (Sweden) and Purdue (USA). “Hannah is an example of the new global engineer, and for me she represents the importance of diversity in internationalization of engineering education.”

Peter has been recognized by the National Academy of Engineering as one of 25 nationwide “leaders in engineering and engineering education.” As such, he recently represented UTEP at the NSF-sponsored CASEE-forum on the Impact and Diffusion of Transformative Innovations in Engineering Education held in New Orleans in February 2011. Peter’s background includes international experience gained in Japan, and academic appointments at The University of Melbourne and The Ohio State University, and he has held faculty appointments in Mechanical & Industrial Engineering and Metallurgical & Materials Engineering at UTEP for over 20 years. Peter was first brought into the international conversation on engineering education in 1994 through Norman Fortenberry’s leadership: holding the National Academy of Engineering’s Dane and Mary Louise Miller Symposia, focused on innovative research and development activities.



Dr. Jan Helge Bøhn is an Associate Professor in the Virginia Tech Department of Mechanical Engineering; Director of the Virginia Tech Computer Aided Design Laboratory; Program Lead for the Automotive Engineering Program at Virginia Tech, India; and principal investigator for PACE at Virginia Tech, the NSF REU dual site at Virginia Tech and Technische Universität Darmstadt, and the FIPSE ATLANTIS Dual BS Mechanical Engineering degree consortium with TU Darmstadt and Royal Institute of Technology (KTH). Professor Bøhn is co-PI for Global-HUB, a NSF Engineering Virtual Organization; and team-teaches a course on global collaborative engineering design at Virginia Tech, TU Darmstadt, Howard University, ITESM Monterrey, and Shanghai Jiao Tong University. Dr. Bøhn is the recipient of the Virginia Tech Alumni Award for Excellence in International Education (2009). The Virginia Tech Department of Mechanical Engineering was named a University Exemplary Department (2010) for its international program: During 2011-2012, an estimated 65% of all Virginia Tech year-abroad students will be participating in programs developed and managed by Professor Bøhn. Dr. Bøhn has a B.S. in Computer Science, and a M.S. and Ph.D. in Computer and Systems Engineering, all from Rensselaer Polytechnic Institute, Troy, New York. Prior employments include the Norwegian Defense Research Establishment, Philips Laboratories, Sun Microsystems, and General Electric Corporate Research & Development.

Due to scheduling conflicts, I will not be able to attend the ASEE annual meeting in June 2011, but I plan to attend the ASEE Global Colloquium in October 2011. I would like to advocate that the ASEE International Division develop a strong presence at the ASEE Global Colloquium. Last year I taught my global course (US, Germany, Mexico, China) from my hotel room in Singapore; surely we can have a live session in Shanghai this year with remote participants in the US joining in using Skype (audio) or EVO(audio and

ANNOUNCEMENTS – Some Upcoming Events (for a more detailed list, please see the International Division Web Site: <http://www.cse.fau.edu/~maria/asee/ASEEInternationalDivision.html>)
Mark your calendar

2011 Events

June 26-29, 2011

[119th Annual ASEE Conference & Exposition](#)

Vancouver, British Columbia, Canada

September 2011 (5-7 proposed)

[WFEO World Engineering Congress - WEC 2011](#)

Geneva, Switzerland

October 2011

[FIE 2011 - Frontiers in Education](#)

Rapid City, South Dakota

ICEER 2011

[International Conference on Engineering and Education Research](#)

iCEE-2011, Belfast, Northern Ireland, United Kingdom, August 21 - 26, (hosted by University of Ulster, Newtownabbey, Northern Ireland, UK)

iCEER-2011, Taiwan, Republic of China, November 6-11, 2011 (hosted by the National Hsing Hua University and the Feng Chia University)