



The International Division Newsletter

Fall 2007

INTERNATIONAL DIVISION OFFICERS

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WEB SITES

[http://www.asee.org/activities/
organizations/divisions/index.cfm](http://www.asee.org/activities/organizations/divisions/index.cfm)

[http://www.asee.org/
international/index.cfm](http://www.asee.org/international/index.cfm)

From the Division Chair

On July 7, 2007 humanity reached the halfway mark in the race to achieve the United Nation's Millennium Development Goals (MDGs, see top of page 2). Unlike past similar-sounding U.N. efforts, the MDGs have proven to be a resilient and sticky concept, gaining traction with time rather than waning into history. While overlooked by many, these goals embody the biggest challenges, and opportunities, awaiting our engineering community. A recently released U.N. report shows progress is mixed, as expected.

How might engineering help? As with any goal the first half is the easiest. The full skills of the entire engineering community will be required to help the world meet the MDGs by 2015, or any other target year. Solutions must be affordable, reasonably effective, locally appropriate, and sustainable. Many of these solutions will benefit from traditional engineering, certainly, but the intractability of these problems necessitates new ways be pursued.

Is engineering education ready to deliver? Instead of traditional brute force technological fixes, these problems will require unprecedented cleverness; finding inspiration in typically overlooked places will be critical for success. Engineering students need to be trained to learn from the persistent experimentation of natural systems on our planet. All engineering disciplines would benefit from the study of biological sciences, including microbiology and botany. Rich knowledge is embodied in indigenous cultures worldwide. Engineering students need to learn from and build upon such wisdom. It is clear that more learning needs to take place outside the walls of our classrooms. International experiences should be encouraged for all our students. Attention also needs to be paid to faculty development in these areas. As Thomas Friedman states, "If you don't go, you don't know." How many of our university programs are preparing engineers to create a future where all can thrive? ASEE's International Division will facilitate sharing of best practices in the coming years. Together, we may make the second half the memorable part of the race.

Kurt

Millennium Development Goals (selected targets to be met by 2015)

- Halve the proportion of people living on less than a dollar a day
 - Ensure all children complete primary school
 - Educate boys and girls equally
 - Reduce the mortality rate among children under five by two-thirds
 - Reduce the maternal mortality rate by three-quarters
 - Halt and begin to reverse the spread of HIV/AIDS, malaria and other major diseases
 - Halve the proportion of people without access to safe water and sanitation
 - Increase aid and improve governance
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ASEE Annual Conference Minutes — International Division Business Meeting June 25, 2007 Honolulu, HI

Attendees:

Unfortunately, the sign-in sheet was inadvertently taken by someone in attendance. If you have it please send to Brian Koehler. The following is from memory:

Said Abubakr	Zenaida Gephardt	Brian Koehler	Nick M. Safai
Muthar Al-Ubaidi	John Grandin	Jack Lohmann	Suzanne Scott
Mary Anderson-Rowland	Russel C. Jones	Kurt Paterson	Joseph Sun
Claudio da Rocha Brito	Bethany Jones	Jean Landa Pytel	Bernd Widdig
Ivan Esparragoza	Maria Larrondo Petrie		

Agenda & Notes:

Call to order (2:00pm), introduction of officers present. The meeting was held at the Hawaii Convention Center (rm. 304B) with welcoming remarks from the Chair of the International Division for the last two years, Dr. Russel Jones. The Chair mentioned the “stellar program” of the International Division sessions. Division Program Chair Nick Safai was recognized and thanked for his effort in developing the program.

• Self-introductions of all members (involved or committed).

• Report on Division activities over past year (Russ Jones, Chair).

Chairman Russ Jones announced that the by-laws have been updated and adopted by the Division including the succession of officers. He reported on the annual activities:

- o Division Website – underway thanks to Maria Larrondo Petrie.
- o Division Program – continues to be focused; historically foreign names had been automatic, but is now focused on content.
- o Transparent Award Process – Nominations can be put forth to the formal process
- o Division Awards to be presented at the 2007 International Division Reception:
 - Global Engineering & Engineering Technology Award: Jack Lohmann (Georgia Tech)
 - Best Paper Award: “Developing Global Engineers: An Integrated Approach to International Projects”, Carolyn D. Braun, Zenaida Otero Gephardt, Jared S. Krause, Dustin M. Kuzan, David M. Santino, Mary E. Wellspeak, and Joshua R. Wyrick of Rowan University.
 - Service Award: Muthar Al-Ubaidi (University of Cincinnati)
- o Newsletter – Gerry published three during the last year (Fall, Winter, and Spring)
- o Reception Sponsorship – Focused less on corporate and more on academic sponsorship of the International Division (URI & Purdue)

- o Membership Chair – Appointed Ivan Esparragoza to the newly created position
- o 2007 Global Colloquium – Istanbul, Turkey
- o Elections – conducted in a transparent and open matter.
- o “Carry on Momentum” message to incoming 2007 Officers:
 - Kurt Paterson, Chair
 - Gerry Johnson, Vice-Chair/Chair Elect
 - Brian Koehler, Secretary/Treasurer
 - Nick Safai, Program Chair
 - Gerry Johnson, Newsletter Editor
 - Ivan Esparragoza, Membership Chair
- **Minutes of last year’s annual business meeting (Marie Petrie, Secretary-Treasurer)**
Secretary Marie Petrie shared a brief summary of minutes from last year (approved). For a copy see the “International Division Newsletter” (Fall 2006; Gerry Johnson, Editor)
- **Treasurer’s report (Marie Petrie, Secretary-Treasurer)**
Treasurer Marie Petrie reported on the new website she is developing for the International Division to improve communication among members. Chairman Jones acknowledged that former officers never retire, they just take on new assignments. As of 3/31/2007 the BASS Account Balance is \$10,973.60 and the Operating Account Balance is \$270.
- **Acknowledgement of URI/Purdue support of International Reception**
The International Division Reception this year is being sponsored by the University of Rhode Island and Purdue University. Chairman Jones expressed thanks for that support. See awards above.
- **Program Chair report (Nick Safai, Program Chair)**
Program Chair Nick Safai reported that over 200 abstracts were submitted this year. Requests for workshops and panel sessions were abundant. The final 2007 program consisted of 19 technical sessions, workshops, panel sessions, business meetings, and one poster session.
 - o 145 abstracts passed the first round of review, however, due to limited space at ASEE many were referred to other Divisions.
 - o Nick Safai put together a panel of over 65 reviewers made up of faculty from the various higher-ed institutions. Six reviewers were assigned to each paper. 128 papers were reviewed each by 4 to 6 reviewers with 94 ultimately accepted.

Chairman Jones indicated that Nick had reported during the speakers breakfast session that the printed version of the program is inaccurate and the online version should be consulted. There is a new staff in Washington using a new software package for publishing the proceedings so the entire conference program may be inaccurate in hard copy, but correct on the web. He went on to thank Nick Safai for his leadership in developing a quality program.

- **Newsletter Editor report (Russ Jones for Gerry Johnson, Editor)**
Congratulations on the recent birth of your grand child! Newsletter Editor Gerry Johnson has done three editions over the past year and plans three more to be distributed in Fall, Winter, and Spring. All membership input is welcome. Please send articles and other contributions to Gerry to be included in upcoming newsletters. Many new photos and historical information have been included in the recent newsletters adding to its quality. Although Gerry Johnson is Chair Elect, he will continue serving through summer of 2008.
- **Membership issues (Ivan Esparragoza, Membership Chair)**
Membership Chair Ivan Esparragoza is serving the Division since his appointment to the position this past year. Ivan Esparragoza stated that he believes the International Division “should” be the biggest in ASEE, however, we currently comprise less than 2% of the total ASEE membership. Currently, the International Division has 277 members with 668 Global Online Memberships (GOM) who are not paying members. Chairman Jones stated that he believes the Division should “adopt” these members

since we host the “Best meeting in the world.” Ivan Esparragoza continued sharing that in June 2001 the Division had 198 members, and currently 22.8% of the Division is female – slightly higher than overall ASEE female membership (18.4%). He also reported that 11 states are not even represented in the Division membership. For more information about International Division Membership or a transcript of all the membership data please contact Ivan Esparragoza at iee1@psu.edu

- o Promotion of membership to new ASEE members

Ivan Esparragoza brought up the question, “Have we reached out?” He commented that the International Division “needs a plan” to attract and retain membership. His proposal is to disseminate information via effective communications.

1. Each current member should bring a new member.

2. Division should work collaboratively with organizations like ASME, ASCE, etc.

Suzanne Scott mentioned that perhaps a name change may benefit the International Division.

- **Plans for upcoming year (Kurt Paterson, Chair Elect)**

Chair Elect Kurt Paterson commented that it is “mysterious why the International Division has < 2%” of the overall ASEE membership. He believes the answer to increasing membership is to become even more “relevant” than we already are, and be “beneficial” to ASEE activities. Muthar Al-Ubaidi shared with the Division a historical perspective of how ASEE views the International Division. Russ Jones added, the challenge is that the “Division was seen as not strong enough to be included in planning” by ASEE Headquarters.

- o Review, modify, and adopt Division mission statement. Jack Lohmann commented that mission follows vision; vision is what is absent. Mission articulates how your resources will accomplish a vision.

The International Division mission statement was proposed and discussed by the membership. A copy of the mission statement, along with feedback regarding the vision and mission will be solicited in the coming newsletters.

- o Conference session and panel session ideas for 2008 annual meeting
Comments and suggestions are welcome. Please contact either Kurt Paterson or Nick Safai.
- o Division presence at conferences in addition to annual meeting
- o Partnering with other ASEE divisions

- **New Business**

PIC IV Chair, Mary Anderson-Rowland visited the meeting. She explained that there are 5 Professional Interest Councils (PICs) in ASEE and this division belongs to PIC IV (1 of 12 Divisions). She has been happy with the division’s progress over the past year, and will bring our message to the President of ASEE. She stated that overall abstracts and papers were up this year (2761 abstracts, 307 more than previous year; 2387 accepted. 1739 papers, 1626 published, 160 for a new record). There were 2230 attendees slightly lower than previous year. Please submit any recommendations for a special/keynote speaker to PIC IV Chair, Mary Anderson-Rowland so that she may propose it to the ASEE leadership.

John Grandin, University of Rhode Island announced that the next International Colloquium on International Education, which ASEE is endorsing, will be held at Purdue University, and invited participation by those present.

- **Adjournment**

The meeting was adjourned at 2:00 p.m.

Notes submitted respectfully by:

Brian D. Koehler, Secretary/Treasurer

North Carolina State University College of Engineering

International Division's 2007 Awards

Global Engineering & Engineering Technology Educator Award

This year's Global Engineering & Engineering Technology Educator Award was presented to Dr. Jack Lohmann, Vice Provost for Institutional Development and Professor of Industrial and Systems



Engineering at the Georgia Institute of Technology. His principal responsibilities include institutional development, review, and accreditation of the Georgia Tech's global academic programs. Dr. Lohmann most recently served as the Associate Dean for Academic Affairs in the College of Engineering at Georgia Tech, and has also held appointments at the National Science Foundation, the University of Michigan, the University of Southern California, and l'École Centrale Paris in France.

Dr. Lohmann earned his B.S.M.E. from Oklahoma State University and his M.S. and Ph.D. in Industrial Engineering and Management at Stanford University. His research and teaching interests are in the field of capital

budgeting and economic decision analysis, and he has also provided leadership in a number of educational initiatives involving accreditation, curriculum innovation, and globalization. External sponsors of his research and educational initiatives include: AT&T, Continental AG, GM, Hewlett-Packard, IBM, Microsoft Research, Motorola, National Science Foundation, Procter & Gamble, Sloan Foundation, and the United Engineering Foundation. Dr. Lohmann is also Editor of the Journal of Engineering Education, an education research journal published by the American Society for Engineering Education, a licensed Professional Engineer, and a Fellow of the Institute of Industrial Engineers, the American Society of Engineering Education, and the European Society for Engineering Education. In 2007, he was awarded the John L. Imhoff Global Excellence Award for Industrial Engineering Education by the American Society for Engineering Education.

Service Award

This year's International Division Service Award was presented to Dr. Muthar Al-Ubaidi, Department Head and Professor of Mechanical Engineering Technology in the College of Applied Science at the University of Cincinnati.



Dr. Al-Ubaidi has been involved with the International Division of ASEE since 1986 and has served on the International Liaison Group for Engineering Education, the Pacific Congress on Manufacturing & Management, and the Global Forum at the University of Cincinnati. Dr. Al-Ubaidi is one of the founders and the Chair of the Interamerican Council on Engineering and Technology Education. He served as the General Chairperson for the 6th and 8th Interamerican Conferences (INTERTECH 2000, INTERTECH 2004). Dr. Al-Ubaidi has organized and attended many national and international conferences. He served as a member of the International Advisory Committee for number of conferences in Brazil and Spain. He is also a member of the American Society of Mechanical Engineers and Society of Manufacturing Engineering. Dr. Al-Ubaidi has received many awards including three university

awards: the Just Community Award, the C. Oscar Schmidt Public Service Award and the George B. Barbour Award for Faculty Student Relationships.

Best Paper Award



This year's International Division Best Paper Award was presented to Carolyn D. Braun, Zenaida Otero Gephardt, Jared S. Krause, Dustin M. Kuzan, David M. Santino, Mary E. Wellspeak, and Joshua R. Wyrick of Rowan University for their paper entitled *DEVELOPING GLOBAL ENGINEERS: AN INTEGRATED APPROACH TO INTERNATIONAL PROJECTS*.

From the Membership Chair

The International Division of ASEE is interested in attract more members to build a bigger, stronger and more dynamic network of scholars and researchers with interests in global engineering education, multinational collaboration and internationalization of the engineering curriculum. Some of the strategic actions discussed in the last division meeting in Honolulu, Hawaii include:

- a. The division will increase visibility and disseminate its goals and programs by developing an effective webpage and using the newsletter as a means to promote the division providing information about who we are, what we do, why is important to be part of the division, and how members can get involved.
- b. The division officers encourage the current members to identify potential new members and invite them to be part of the division. Each current member should be a mentor for a new member. The campaign for 2007-2008 will be “each current member should bring a new member.”

We are very interested in having every constituent of the division participating in this effort and we would like to receive input, ideas, and suggestions in how to engage and retain more members, how to make the division more active and inclusive, and how to promote the participation and involvement of the members. We would like to hear from you. Please send your comments to Kurt Paterson, Division Chair, paterson@mtu.edu, or Ivan Esparragoza, Membership Chair, iee1@psu.edu.

Ivan

From the Immediate Past Chair

This is a heads-up on an impending change on my professional activities. I have been appointed as the founding president of a new university in Abu Dhabi in the United Arab Emirates. The new Masdar Institute of Science and Technology is a graduate education and research institution which is focused on alternative energy. The leadership of the Abu Dhabi emirate has made a strategic decision to invest a substantial portion of its oil revenues in the future -- when oil will be less available and less acceptable as a fuel. The overall Masdar initiative, which includes building a major carbon-emission free demonstration city with the new university as its center piece, is described at <http://www.masdar.ae/>.

My wife and I will be moving to Abu Dhabi on September 1st on a two year assignment to get the new university up and running.

Russ Jones

ANNOUNCEMENTS

Mark your calendar

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| September 3 - 7, 2007 | International Conference on Engineering Education Icee 2007, Coimbra, Portugal |
| September 29 - October 4, 2007 | 6 th Annual ASEE Global Colloquium on Engineering Education, Istanbul, Turkey. (www.asee.org) |
| November 1 - 4, 2007 | Colloquim on International Engineering Education, West Lafayette, IN, (https://engineering.purdue.edu/GEP/ACIEE) |
| November 3, 2007 | D80 Conference, Houghton, MI, (www.d80.mtu.edu) |
| December 9 - 12, 2007 | Australasian Association for Engineering Education Conference, Melbourne, Australia, (www.asee.com.au) |
| June 22 - 25, 2008 | 115 th Annual ASEE Conference and Exhibition, Pittsburgh, PA, (www.asee.org) |