



The International Division Newsletter

Spring 2007

INTERNATIONAL DIVISION OFFICERS

CHAIR

Russel Jones
RCJonesPE@aol.com

VICE-CHAIR/CHAIR-ELECT

Kurt Paterson
paterson@mtu.edu

PROGRAM CHAIR

Nick Safai
Nick.Safai@slcc.edu

SECRETARY/TREASURER

Maria Larrondo Petrie
petrie@fau.edu

NEWSLETTER

Gerry Johnson
gerry@ntuf.org

PAST CHAIR

Muthar al-Ubaidi
muthar.al-ubaidi@uc.edu

WEB SITE

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

From the Division Chair

As I approach the end of my two year term as Chair of the ASEE International Division, I am pleased with the "State of the Division".

Two years ago, the ASEE Board expressed its concern about the operation of the Division and its quality. We addressed their concerns head-on by holding transparent elections to flesh out a new slate of officers, and by developing programs that met appropriate standards. The Board expressed its endorsement of those actions six months later.

Several accomplishments over the past two years:

- Updating of the Division's bylaws, which had not been revised since 1985 (carried out by Secretary/Treasurer Maria Petrie)
- Focusing of the Division's program of sessions at annual meetings to most appropriate topics, and stimulation of high quality papers (accomplished by Program Chair Nick Safai)
- Conducting a transparent awards process, with top individuals selected for Division awards (implemented by Chair-Elect Kurt Paterson)
- Publishing informative and timely newsletters (edited and produced by Newsletter Editor Gerry Johnson)
- Obtaining appropriate external sponsors for the annual International Division Reception (Georgia Tech in 2006, University of Rhode Island and Purdue University in 2007)
- Appointing a Membership Chair to develop efforts to increase the membership of the Division (Ivan Esparragoza as Membership Chair)
- Participating in the planning of the ASEE Global Colloquium on Engineering Education series (Chair Russel Jones served as an ex officio member of the ASEE International Committee)

As noted elsewhere in this Newsletter, recent elections have selected new officers to carry this momentum forward; a great program has been developed for the annual meeting in Hawaii; and top individuals have been chosen for the Division's annual awards.

My thanks to the officers who have worked effectively with me over my term as Chair of the International Division, and to the members of the Division who have been active and supportive during this transition period.

Russ

International Division Election

In accordance with the Division by-laws, an election of Division Officers was scheduled for the Spring of 2007. Officers to be elected were the Vice-Chair/Chair Elect and the Secretary/Treasurer. A Nominating Committee consisting of Russ Jones, Kurt Paterson and Muthar Al-Ubaidi nominated two individuals for each office. A general electronic mailing was sent to all Division members requesting additional nominees for each position. No additional nominees were submitted. The election took place in March by electronic ballot and the results were announced in early April.

The nominees for Vice-Chair/Chair Elect were Gearold R. Johnson and Jean Landa Pytel, Gearold Johnson was elected. A brief bio-sketch of Gearold Johnson follows:



Gearold Johnson – Gerry is vice president and director of the NTU Foundation, whose mission is to support research in workforce learning for engineers, scientists and educators. He is the Emeritus George T. Abell Endowed Chair in Engineering at Colorado State University where he was a member of the Mechanical Engineering Department for twenty-four years. He was the academic vice-president of the National Technological University (NTU), one of the world's first virtual universities, for eight years following his retirement from Colorado State University in 1995. Dr. Johnson has been a Visiting Professor at the University of Kent, Canterbury, England and the California Institute of Technology. He was also a Visiting Research Engineer at Shape Data Ltd in Cambridge, England. Dr. Johnson received his undergraduate degree in aeronautical engineering and his graduate degrees in Mechanical Engineering from Purdue University. He has been involved in numerous international committees and currently represents the American Association of Engineering Societies (AAES) as a member of the World Federation of Engineering Organizations (WFEO) where he serves as a member of both the Committee on Education and Training and the Committee on Capacity Building. He is currently serving as Vice Chair for Newsletters for the ASEE International Division.

The nominees for Secretary/Treasurer were Brian D. Koehler and Maria M. Larrando Petrie. Brian Koehler was elected. A brief bio-sketch of Brian Koehler follows:



Brian Koehler is Coordinator of First Year Engineering and International Programs at North Carolina State University. He serves on the President's UNC-System Advisory Board to Mexico, (co)created the North Carolina State Summer in Segovia (Spain) and Zhejiang (China) programs, developed the International Certificate in Engineering at North Carolina State, and serves as adviser to IAESTE and the INNOVATE Technology & Leadership Conference (Consortium led by Rice, with the University of Pittsburgh, North Carolina State University, Georgia Institute of Technology, and the University of Tulsa). Teaching and research areas include engineering education, international engineering, leadership, corporate recruitment, and supply chain management. He studied at the Instituto Tecnológico y de Estudios Superiores - Monterrey, Mexico (ITESM) and received degrees from the University of Wisconsin-Platteville (B.S.) and North Carolina State University (M.B.A.).

In addition to the election results, at the June Business Meeting of the ASEE Annual Conference in Honolulu, Kurt Paterson will replace Russ Jones as Chair of the International Division and Russ Jones will become Past Chair. The Division officers for the next year will be

- Kurt Paterson — Division Chair
- Gerry Johnson — Vice-Chair/Chair Elect
- Nick Safai — Program Chair
- Brian Koehler — Secretary/Treasurer
- Gerry Johnson — Newsletter Editor
- Russ Jones — Past Chair

The election for the positions of Program Chair and Newsletter Editor will be held in March 2008. If you are interested in either of these positions, please contact the Division Chair, Kurt Paterson.

ASEE Annual Conference at a Glance (International Division)

This year we have another great series of technical sessions, business sessions, a panel discussion, a poster session and a workshop organized for the International Division at the upcoming ASEE Annual Conference in Honolulu, Hawaii, June 24 – 27, 2007. This is the greatest number of technical sessions we have ever had arranged/organized for the International Division at an ASEE annual conference.

Below are the list of the sessions, their titles, time slot for each session and the day & date it is being held.

| Session # | Session Title, Day, Date and Time |
|-----------|---|
| 0460 | — <i>Develop Course Materials & Deliver Online</i> , Sunday, June 24, 2007, 12:30 p.m.-2:00 p.m. |
| 1160 | — <i>International Division Speakers Breakfast</i> , Monday, June 25, 2007, 7:00 a.m.-8:15 a.m. |
| 1360 | — <i>Preparing Engineers for the Global Workplace</i> , 6 papers, Monday, June 25, 2007, 10:30 a.m.-Noon |
| 1460 | — <i>International Division Business Meeting</i> , Monday, June 25, 2007, 12:30 p.m.-2:00 p.m. |
| 1560 | — <i>Building Knowledge Based Economies: the Role of Industry-University-Government Partnerships</i> , 6 papers, Monday, June 25, 2007, 2:15 p.m.-4:00 p.m. |
| 1760 | — <i>International Division Cocktail Reception</i> , Monday, June 25, 2007, 6:30 p.m.- 8:00 pm |
| 2160 | — <i>International Case Studies: Collaborations, Exchanges & Interactions</i> , 7 papers, Tuesday, June 26, 2007, 7:00 a.m.-8:15 a.m. |
| 2260 | — <i>Technical Capacity Building for Developing Countries</i> , 6 papers, Tuesday, June 26, 2007, 8:30 a.m.-10:15 a.m. |
| 2460 | — <i>Engineering Education in the Arab World/Mid-East Region</i> , 4 papers, Tuesday, June 26, 2007, 12:30 p.m.-2:00 p.m. |
| 2462 | — <i>International Distance & Service Learning for Engineers—Discussion on Best Practices</i> , 6 papers, Tuesday, June 26, 2007, 12:30 p.m.-2:00 p.m. |
| 2560 | — <i>Preparing Engineering Students for International Practice</i> , 7 papers, Tuesday, June 26, 2007 2:15 p.m.-4:00 p.m. |
| 2660 | — <i>Collaborative & New Efforts in Engineering Education</i> , 7 papers, Tuesday, June 26, 2007, 4:30 p.m.-6:00 p.m. |
| 3160 | — <i>Global Engineering in an Interconnected World</i> , 7 papers, Wednesday, June 27, 2007, 7:00 a.m. - 8:15 a.m. |
| 3260 | — <i>International Engineering Education I - Poster Session</i> , 10 papers, Wednesday, June 27, 2007, 8:30 a.m.-10:15 a.m. |
| 3460 | — <i>Engineering Without Borders: Programs Involving Students</i> , 7 papers, Wednesday, June 27, 2007, 12:30 p.m.-2:00 p.m. |
| 3560 | — <i>Educating Graduates in Engineering For A Flat World</i> , 4 panelists and 2 papers, Wednesday, June 27, 2007, 2:15 p.m.- 4:00 p.m. |
| 3660 | — <i>International Engineering Education II</i> , 6 papers, Wednesday, June 27, 2007, 4:30 p.m.-6:00 p.m. |

For details on each session including paper titles and authors please visit
<http://www.asee.org/osl/index.cfm?view=browse&d=382>

For those traveling to the Annual Conference, please remember to attend both the International Division Business Meeting and the International Division Cocktail Reception. These two events are highlighted in the schedule shown above and both will be held on Monday, June 25, 2007. The International Division's awards will be presented at the Cocktail Reception. Please join us there to honor the award winners.

International Division's 2007 Awards

Global Engineering & Engineering Technology Educator Award

This year's Global Engineering & Engineering Technology Educator Award will be 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'Ecole 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 will be 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 a number of conferences in Brazil and Spain. He is also a member of the American Society of Mechanical Engineers and the 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 will be 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*. The paper will be presented in Session 3560 — *Educating Graduates in Engineering For A Flat World*, on Wednesday, June 27, 2007, 2:15 p.m. - 4:00 p.m.

From the Newsletter Editor

I would like to take this opportunity to thank Russ Jones for his leadership these past two years in re-invigorating the International Division. Russ has worked hard to make the Division a better organization and he has achieved his goals. The Division is better off today and we have Russ to thank. Thank you Russ.

This is now the third issue of this latest incarnation of the International Division Newsletter and I plan three more over the up-coming twelve months. To date it has been mostly my endeavor with help from the other officers but I think it is now time to get more input from the membership at large. If you have news that needs printing, please e-mail it to me. I will publish information about upcoming workshops, regional conferences and seminars, or any other event that you think deserves to be put before the Division's members. Also, if there are national or international events that should be included in the brief calendar that concludes each issue of the Newsletter, send the item along to me for inclusion.

By now, I think you realize that I like to find old articles and see what they say about the future of engineering and especially in an international context. I recently read the following and was quite struck.

In this year, 1975, with 3.5 billion persons on Earth, we are unable to feed, shelter, cure and educate a large part of the 2.5 billion persons who live in developing countries.

From now to the year 2, 000, three billion more people will land on Planet Earth. They will come by day, by night, one by one, in all regions of the globe but mostly in developing countries. If they would land from Mars or from the nearest star Alpha Centaure, they would make news; but coming from Earth, they remain unnoticed.

They will require food, housing, health services and education. The preparation for this landing, the supply of decent conditions of living for these 6 billion persons, is the main engineering problem for the rest of this century.

By using the best brains of the military agencies of the United States, it took two years to prepare for the landing in Normandy of 10, 000 to 50, 000 persons. The brightest engineers and scientists of this country took ten years to organize the landing on the moon. Now we must face the logistic preparation for the landing of 3 billion persons during the next 25 years when present facilities are already inadequate for say 2 billion persons already here. Who is preparing this landing? Should not the engineering community take the lead? To the question, "Who should be trained and where?", my answer is to train engineers from both developing and developed countries and located in both developed and developing countries. For solving such a large problem, we need cooperation. We need the best brains, whatever be their origin.

The engineering community of the world should sit together and undertake the planning for this 3 billion person landing.

So how do you think we did. Were we prepared? Did we have that sit down together?

(Reprinted from Châtel, Bertrand H., "Educating Engineers for World Development," *Proceedings of Educating Engineers for World Development*, ASEE, June 10-12, 1975, Estes Park, CO, pp. 25-31.)

Gerry

ANNOUNCEMENTS

Mark your calendar

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| June 24 - 27, 2007 | 114 th Annual ASEE Conference and Exhibition, Honolulu, Hawaii |
| July 1 - 4, 2007 | SEFI & IGIP Joint Annual Conference, Miskolc, Hungary |
| 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 |
| June 22 - 25, 2008 | 115 th Annual ASEE Conference and Exhibition, Pittsburgh, PA |