

The Global Engineering Deans Council (GEDC) Institute for Deans/Rectors Invites you to Attend its Workshop that will be part of the ASEE Global Colloquium for Engineering Education:

The Influence of Globalization in Engineering Education, Pedagogies and Accreditation

Location: The Hungarian Academy of Sciences, Budapest, Hungary

Date: Monday October 12, 2009

Time: 09:30- 17:30

9:30 – 10:00

Welcome Address

Tamás Németh, Secretary General of the Hungarian Academy of Sciences, Hungary

Cristina Amon, Chair, Global Engineering Deans Council and Dean, University of Toronto, Canada

10:00 – 12:00

TRACK 1: Building the European Higher Education Area (EHEA) by Bologna Process

Co-Chairs: Hasan Mandal, Chair-Elect, Global Engineering Deans Council, Dean; Anadolu University, Turkey

Jose Carlos Quadrado, President, ISEL, Portugal

In the decade up to 2020 European higher education has a vital contribution to make in realizing a Europe of knowledge that is highly creative and innovative. European higher education also faces the major challenge and the ensuing opportunities of globalization and accelerated technological developments with new providers, new learners and new types of learning. Student-centered learning and mobility will help students develop the competences they need in a changing labor market and will empower them to become active and responsible citizens. In these respects, the Bologna Process has been revolutionary for cooperation in European higher education since 1999. The process has aroused growing curiosity and interest, but also some uneasiness in other parts of the world.

In this workshop, the more recent developments in the Bologna Process including the framework of European Qualifications Framework based on learning outcomes and student workload which are linked to the European Standards and Guidelines for quality assurance will be discussed. Special attention will be paid on the accreditation of engineering programmes.

Noon – 13:00

Lunchtime Address: Brief presentation of the ASEE/NSF project, “Creating a Culture for Scholarly and Systematic Innovation in Engineering Education”, Jack Lohmann, Vice Provost and Professor, Georgia Institute of Technology, USA

13:00-15:00

TRACK 2: ATTRIBUTES OF A GLOBAL ENGINEER

Co-Chairs: Cristina Amon, Global Engineering Deans Council; Dean, University of Toronto, Canada

Sarah Rajala, Past-President of the American Society for Engineering Education; Dean, Mississippi State University, USA

While international collaboration has always been part of the engineering endeavor, economic globalization and communication technologies have both accelerated its scope and pace. As leaders of engineering education institutions, it is our responsibility to provide our engineering graduates with the education, skills and confidence to work effectively, to compete successfully and to collaborate efficiently in the global environment.

This workshop will discuss the attributes and abilities that define the global engineer such as: understanding the broad context of engineering work, including cross-disciplinary aspects, along with the business, ethics and social implications; ability to

adapt to new situations, deal with complexity, collaborate on a global basis, and communicate across language and cultural differences.

Determining and assessing the skills and attributes required by global engineers will enable us to incorporate them in our students' engineering education and increase their global competitiveness.

15:00 – 15:15

Coffee Break

15:15 – 17:15

TRACK 3: ENHANCING ENGINEERING EDUCATION WITH TECHNOLOGY

Co-Chairs: David Garza Salazar, ITESM, Monterrey Campus, Mexico

Ibrahim Hajj, Dean, American University of Beirut, Lebanon

Engineering Schools around the world are always seeking innovative ways to enhance engineering education. One of the key challenges that we face in engineering education is the transformation of the traditional lecture-based teaching model into an active-learning model where students participate in the construction of their own knowledge. This implies a redesign of the teaching-learning experience. We are on the verge of a generational change, the upcoming freshman class are students that were born when the World Wide Web was already popular. Many of them are *digital natives* with certain skills, behaviors and expectations very different from those of the *digital immigrants* (most of the current faculty and administrators). Technology can be a catalyst for this transformation, turning a traditional classroom into an exciting environment where high student engagement and academic success is achieved.

In this track we will explore the lessons learned and lessons to be learned associated with the use of technology to enhance engineering education. Our aim is to share best practices, experiences, and tools that are being used around the world by different engineering schools.

The main topics of the track will focus on:

- Enhancing engineering programs with technology in the classroom.
- Measuring the impact of technology in learning.
- Challenges in the use of technology in the classroom.
- Experiences with distance learning.

17:15 -17:30

Closing Remarks

Hasan Mandal, Chair-Elect, Global Engineering Deans Council; Dean, Anadolu University, Turkey

****The Executive Committee of the GEDC will meet at the Academy from 8 am to 9:20 am just before the workshop****

Please note breakfast will not be provided

For more information please see the following website: <http://www.asee.org/conferences/international/2009/Program-Details.cfm>

**The schedule of this event is tentative and subject to change, so please check the above website regularly for the latest version.*

Please contact Stephanie Pals (s.pals@asee.org) in the office of the GEDC Secretariat if you have any questions relating to this event.



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