



International Accreditation Challenges

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SINE TIMS CIMAA















































National Society of Professional Engineers®



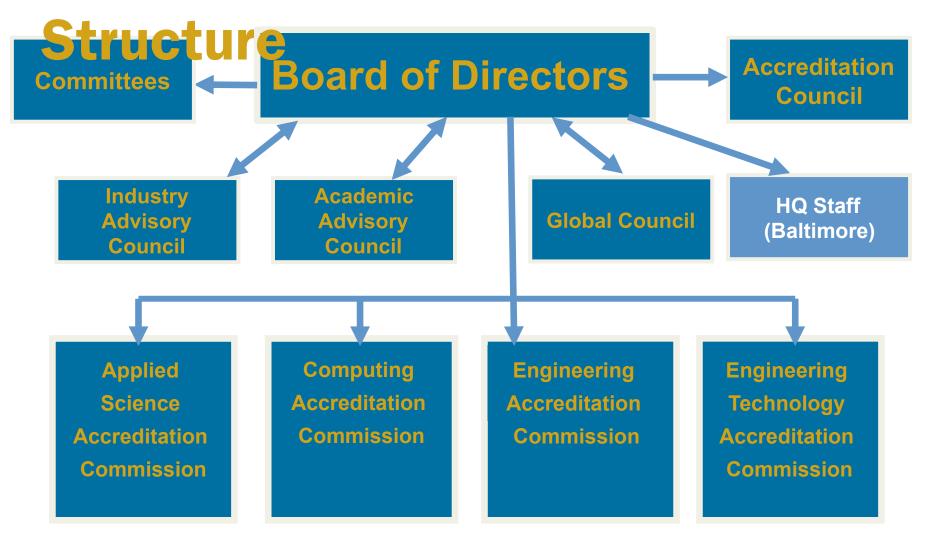


Society for Mining, Metallurgy & Exploration





ABET Organizational



Volunteer-Driven: *2,200+ Volunteers*



Why a Global Focus for Accreditation?

- Global Education
 - International Students
 - Global Institutions
 - Growth of (global) Distance Learning
- Global Business
 - Global technical professionals
- Developing Nations & Economies
 - Rapid growth in technical capacity building
- Global Challenges









Global Challenges

Environment



World Population



Clean Water



Conflict



Aging Population



Energy





Global Technical Professionals

- Requires unique attributes and skills
 - Work anywhere, with anyone
 - Appreciation for and ability to function in multicultural environment





Global Professional Skill Set

- Requires unique attributes and skills
 - Language, history, cultural sensitivity, and curiosity
 - Understand impact of solutions in global context
 - Ability to reinvent oneself multiple times over a lifetime in response to changing environment, technology and global needs
- Graduate Attributes





Washington Accord

Graduate Attributes

- Engineering Knowledge
- Problem Analysis
- Design/Development of Solutions
- Investigation & Experimentation
- Modern Tool Usage
- The Engineer and Society
- Environment and Sustainability
- > Ethics
- Individual and Teamwork
- Communication
- Project Management and Finance
- Lifelong Learning

AGREEMENT

RECOGNITION OF EQUIVALENCY OF ENGINEERING EDUCATION COURSES/PROGRAMS LEADING TO THE ACCREDITED ENGINEERING DEGREE

Participating Organizations

- > The Institution of Engineers, Australia
- The Canadian Engineering Accreditation Board of the Canadian Council of Professional Engineers
- > The Institution of Engineers of Ireland
- > The Institution of Professional Engineers New Zealand
- The Engineering Council (United Kingdom, with certain Chartered Engineering Institutions

and

 The Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology, Inc. (United States of America)

> Washington DC, USA November 30, 1988

AS AMENDED AND EXECUTED IN PRAGUE, CZECHOSLOVAKIA 28 September 1989

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ABET is Engaged Globally

Consistent with ABET's Mission & Vision

- Assistance: MOUs with 15 national agencies
- Mutual Recognition Agreements
 - Engineers Canada
 - International Engineering Alliance (IEA)
 - Washington, Sydney, Dublin Accords
 - Seoul Accord: Computing
 - Accreditation
 - 365 programs at 72 institutions in 23 countries
- Membership in Global Organizations
 - GEDC, IFEES



Future Challenges



Education & Accreditation



Education is CHANGING

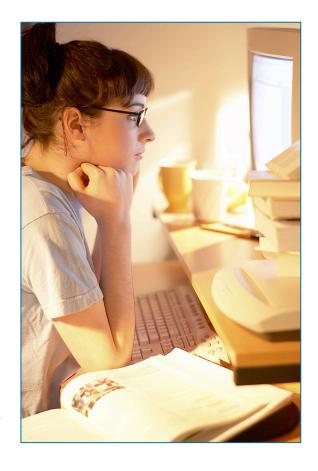
How do we adjust?

Non-traditional students

Diversity of student population

Globalization of the workforce

"Density" of academic programs



Students are changing: Gen X, Gen Y, Gen Z

Explosion of distance learning: online education

The Internet: a tool for learning



Students are Changing

- Digital Natives (Gen Z)
 - Born between mid-1990s and end of 2000s
- Lifelong users of
 - Internet
 - Text messaging
 - MP3 players
 - Cell phones/smart phones
 - Electronic tablets
 - YouTube, Facebook, etc.
- Educational experience:What is **their** expectation?



