

# Global Initiatives and Opportunities

Sarah Rajala, Paul Peercy  
Hasan Mandal and Satish Udpa



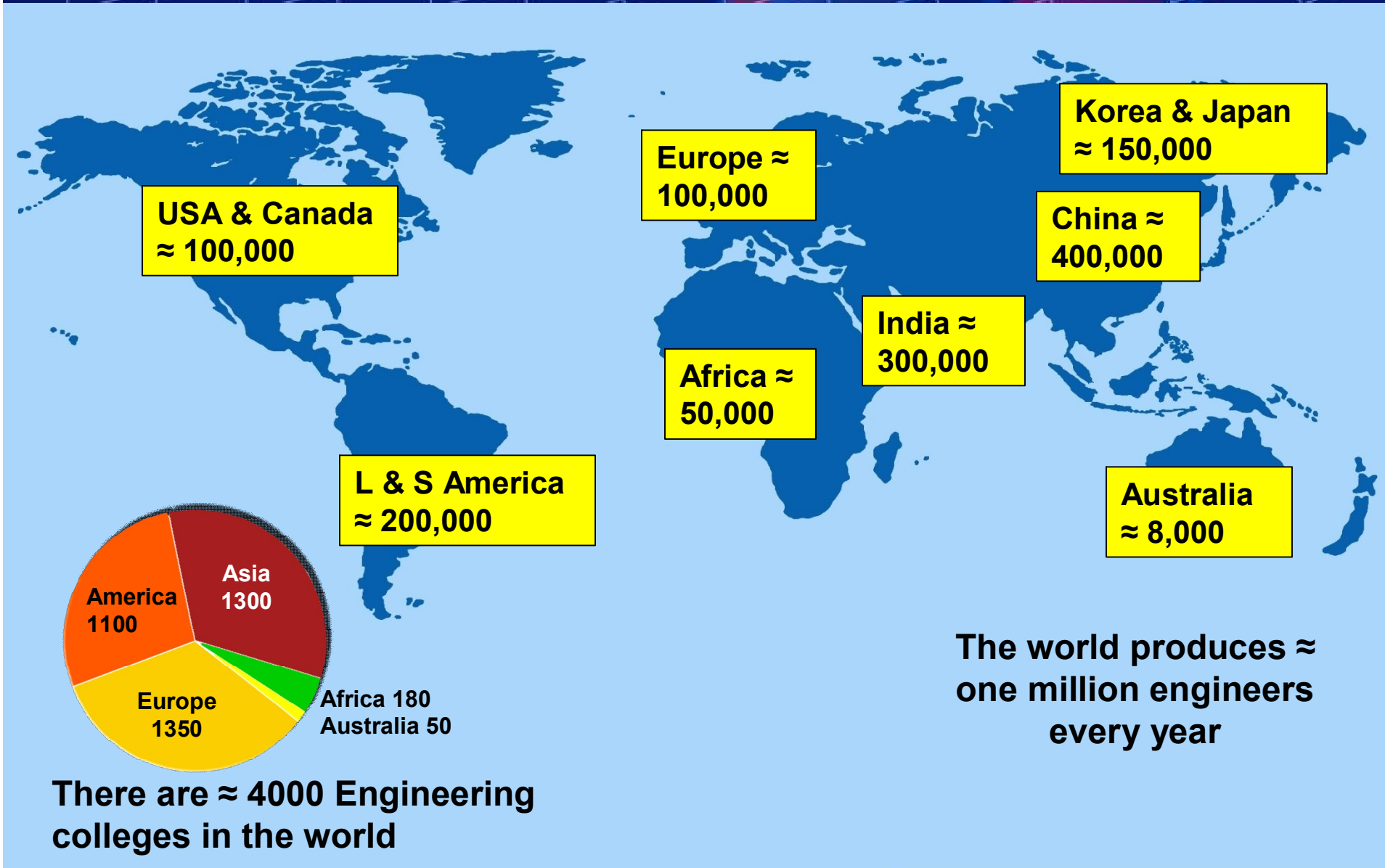
## Presentation Outline

- Why is International Important?
    - Sarah Rajala
  - Opportunities to engage
    - World Engineering Education Forum of 2010
      - Paul Peercy
    - Global Engineering Deans Council –
      - Hasan Mandal
  - Summary and questions
    - Satish Udpa
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# Engineering Grand Challenges

- Food supply
- Clean water
- Affordable healthcare
- Security
- Cleaner energy
- Cleaner environment
- Changing demographics
- Improve the quality of life
- Climate change
- Sustainable development

# New Engineers and Engineering Colleges



# International Federation of Engineering Education Societies

- IFEES Mission
    - To establish effective engineering education processes of high quality around the world to assure a global supply of well-prepared engineering graduates.
    - To strengthen member organizations and their capacity to support faculty and students.
    - To attract corporate participation, helping to connect engineering graduates with international corporations that have a pressing need for well-trained engineers who can work in a global environment.
    - To enhance the ability of engineering faculty, students and practitioners to understand the varied cultures of the world and work effectively in them.
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# Opportunities to Engage

- World Engineering Education Forum of 2010
  - Effective Collaborations Addressing Common and Global Challenges



# World Engineering Education Forum



A global gathering of engineering education stakeholders to improve the field through enhanced dialogue on the major engineering and engineering education challenges and through increasing the effectiveness of global partnerships, harnessing the expertise and commitment of the international community and of the local and regional players.

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# World Engineering Education Forum

- Five events and common sessions
  - 9<sup>th</sup> ASEE Global Colloquium
  - 12<sup>th</sup> IACEE/WCCEE Meeting
  - 4<sup>th</sup> IFEES Summit
  - 7<sup>th</sup> Global Student Forum
  - 1<sup>st</sup> Conference of the Global Engineering Deans Council





# Global Engineering Deans Council (GEDC)

## **Vision**

*To enhance the capabilities of engineering deans to transform their schools in support of their societies in a globalized world*

## **Mission**

*To serve as a global network of engineering deans and to leverage on the collective strengths for the advancement of engineering education and research*



# GEDC Objectives and Main Tasks

## Main Tasks:

- Facilitate global preparation of engineering students through exchanges
- Form a Deans Training Institute for the mentoring of engineering deans
- Establish regular meetings to discuss issues, challenges and best practices
- Form a Global Academy of Engineering

## Objectives:

Provide a forum for exchange of information and discussion of experiences, challenges and best practices in leading an engineering school

Provide a means for engineering deans to partner in innovation, and collaborate with industry and other stakeholders

Build a network that would support engineering deans to play a leadership role in developing regional and national policy to advance economies



## GEDC Membership

The Council comprises the following members:

- A person in charge of an engineering college, school, or faculty in a university.
  - A person in charge of an education institution of higher learning that is primarily focused on engineering education and research.
  - A person in charge of an engineering deans council in a respective country and/or region
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A banner with a blue grid background and a glowing blue and red light effect. The text is centered and reads: Global Engineering Deans Leadership Institute Pilot Project (supported by HP) March 21, 2009.

Global Engineering Deans  
Leadership Institute  
Pilot Project (supported by HP)  
March 21, 2009

## Priorities

### 1. Deans Development

- A. How to be a successful Dean
- B. Raise \$
- C. Organizing an industry advisory council
- D. Learn from other associations

### 2. Innovation in Engineering Education

- A. **Global Engineer**
- B. **Technology in Education/Distance Education**
- C. Interdisciplinary Collaboration
- D. **Accreditation**

### 3. Partnerships

### 4. Faculty Development

- A. Effective teaching and learning - Innovation
  - B. Research in engineering education
  - C. Statistics related to current engineering education
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A banner with a blue background featuring a grid pattern and a glowing globe. The text "Global Engineering Deans Leadership Institute" is centered in white.

## Global Engineering Deans Leadership Institute

### **The Global Engineering Deans Council (GEDC) Institute for Deans**

Workshop on

*“The Influence of Globalization in Engineering Education, Pedagogies and  
Accreditation”*

**Budapest, Hungary**

**Monday October 12, 2009**

**09:30- 17:30**

### ***TRACKS***

- Building the European Higher Education Area (EHEA) by the Bologna Process
  - Attributes of a Global Engineer
  - Enhancing Engineering Education with Technology
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***First Global Conference of the Global Engineering  
Deans Council (GEDC)***

***18-22th October 2010***

***SINGAPORE***

**“Leverage the Collective Capability for Innovating the Future”**

**Co-Chairs: Hasan MANDAL, Paul PEERCY and Chan Eng SOON**

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## **New Initiatives**

- 1. Formation of National/Regional Engineering Deans Councils**
- 2. Working Groups**





<http://www.gedcouncil.org>





# Summary and Questions

