

## International Federation of Engineering Education Societies

### 2<sup>nd</sup> IFEES Global Engineering Education Summit

*Aligning Engineering Education Initiatives for a Knowledge Economy*

University of Cape Town, Cape Town, South Africa

October 19 - 20, 2008

#### Sunday - October 19, 2008

Sessions/ Topic	Speaker	Time
Buses leave Westin Grand Cape Town Arabella Quays Hotel		7:30
Summit Registration & Refreshment - University of Cape Town		8:00
Session 1 (Auditorium)		8:30 -
<b>Interactive Panel:</b>		10:15
<b><i>The Role of Engineering Education and Innovation in Knowledge Economies: Perspectives of Policy Makers</i></b>		
<i>Reaching out</i> with the goal of aligning current and future engineering education initiatives to maximize their impact in creating and sustaining knowledge economies, the Summit begins with policy makers and government agencies discussing their challenges, needs and perspectives.		
<i>Moderators:</i> <b>María Larrondo-Petrie</b> , IFEES Vice President and Summit Co-Chair, Executive Director, Latin American and Caribbean Consortium of Engineering Institutions, Associate Dean and Professor, Florida Atlantic University, USA; and <b>Duncan Fraser</b> , Secretary General of the African Engineering Education Association (AEEA), and Professor at University of Cape Town, South Africa		
Welcome	<b>Francis Petersen</b> Dean of University of Cape Town, and South African Deans Council	
African Vision for the Summit	<b>Funso Falade</b> President of African Engineering Education Association (AEEA), and Professor of University of Lagos, Nigeria	
IFEES Vision for the Summit	<b>Claudio Borri</b> President of IFEES, Past President of European Society for Engineering Education (SEFI), and Professor at University of Florence, Italy	
African Perspective	<b>(invited Mosibudi Mangena)</b> South African Minister of Science & Technology, and Chair of the African Ministers Science and Technology	
Iberian Perspective	<b>(invited Jose Mariano Gago)</b> Minister of Science, Technology and Higher Education, Portugal	
Russian Federation Perspective	<b>(invited Nikolav Ivanovich Bulaev)</b> Head of Federal Agency for Education in the Ministry of Education & Science, Russian Federation	
European Perspective	<b>(invited Ralph Rahders)</b> European Commission	
American Perspective	<b>(invited Allen L. Soyster)</b> Director of Engineering Education and Centers Division at National Science Foundation, USA	
	<b>Discussion and Interaction</b>	
Coffee Break		10:15

Session 2 (Auditorium) 10:45 -  
 Interactive Panel: 12:15

***Developing Engineering Education Infrastructure in Support of Knowledge Economies: Initiatives, Best Practices and their Application to the Developing World***

*Reaching in* to its member societies, IFEES spotlights initiatives and best practices, grouping them into 3 interactive panels organized according to IFEES strategic action areas and discusses how they can be applied to the developing world. This first panel focuses on initiatives aimed at improving *engineering education infrastructure*. The format of the panel allows for brief 5-8 minute presentations by each panelists, and schedules time for interaction with the audience.

*Moderator: Funso Falade*, President of African Engineering Education Association (AEEA) and Professor at University of Lagos, Nigeria

IFEES Global Engineering Deans Council Initiative	<p><b>Hasan Mandal</b>          Vice Chair of Global Engineering Deans Council (GEDC) and Dean at Anadolu University, Turkey</p> <p><b>Satish S. Udpa</b>          Founding Member of GEDC, and Dean at Michigan State University, USA</p>
Chinese Initiatives	<p><b>Yu Shouwen</b>          Deputy Director of Chinese Society for Engineering Education, Member of the Education Commission of the Chinese Academy of Engineering, and Former President of Tsinghua University, China</p>
Iberoamerican Initiatives to Develop the Professoriate	<p><b>Jaime Salazar Contreras</b>          Executive Director, IberoAmerican Engineering Education Association (ASIBEI), and Professor at Universidad Nacional, Colombia</p>
European and Bologna Initiatives	<p><b>Guy Haug</b>          European Engineering Education Expert</p>
African Collaborative Initiatives	<p><b>Hamadou Saliah-Hassane</b>          Professor, TELUQ - Université du Québec à Montréal, Canada, Former Professor at Abdou Moumouni University and École d'ingénieurs des Mines de l'industrie et de la Géologie, Niger</p> <p><b>Oumar Sock</b>          President of Conférence des Formations d'Ingénieurs et de Techniciens d'Expression Française (CITEF), Senegal</p> <p><b>Andy Ward</b>          Principal Investigator of National Science Foundation Workshop on US-Africa Collaborations, and Professor of Ohio State University, USA</p>
<b>Discussion and Interaction</b>	

**Lunch** sponsored by Autodesk (location to be announced) 12:15

<b>Session 3 (Auditorium)</b>		13:15 -
<b>World Bank Workshop:</b>		18:30
<b><i>Engineering Education in the Knowledge Economy</i></b>		
This highly interactive 5 hour workshop, specially designed for the Summit, aims to give a deeper understanding of the concept of a knowledge economy in theory and in practice, specifically how engineering education - in particular the groups that attendees represent - can be better structured to support this economy in the context of the widely varied regional and sector perspectives. Participants will formulate immediate and long-term action plans for their own organizations to better support the knowledge economies of their own countries and garner useful contacts - leaders in their own sectors and nations.		
<i>Moderators:</i> <b>Bruno Laporte</b> , Manager, Knowledge and Human Development, World Bank Institute; <b>Anuja Utz</b> , Program Leader of Knowledge for Development Program, World Bank Institute; <b>Lueny Morell</b> , President Elect of IFEES, and Director, Engineering Education Innovation, HP Labs Open Innovation Office, Hewlett Packard		
The Concept of a Knowledge Economy and Engineering Education	<b>Bruno A. Laporte</b> Manager of Knowledge and Human Development at World Bank Institute <b>Anuja Utz</b> Program Leader of Knowledge for Development Program at World Bank Institute	
Engineering Education and its Support for the Knowledge Economy	<b>Lueny Morell</b> President Elect of IFEES, and Director of Engineering Education Innovation, HP Labs Open Innovation Office, Hewlett Packard <b>Jenni Case</b> Professor, University of Cape Town, South Africa	
<b>Parallel Interactive Working Groups</b>		15:45 -
Two interactive working sessions will be conducted in parallel to allow small group collaboration to generate short and long term action items.		16:30
<b>Parallel Working Groups 1:</b>		
<b>World Bank Interactive Working Session:</b>		
<b>Integrating Perspectives - Bringing Together the Relevant Stakeholders</b>		
Limited to 50 participants working in groups of 8-10 to consider how engineering education can augment the knowledge economy in their own and their group members' contexts, and to generate one immediate action item and one long-term action item that they will implement and report on at next year's IFEES Summit.		
<b>Parallel Working Groups 2:</b>		
<b>IFEES - Global Student Forum Working Session:</b>		
<b>Sustainability and Engineering Education</b>		
IFEES Summit participants join 90 global student leaders participating in the Global Student Forum to discuss creative solutions related to Sustainability OF Engineering Education, Sustainability IN Engineering Education, and Sustainability THROUGH Engineering Education.		
Integrating Perspective: Bringing Together the Relevant Stakeholders	Facilitated by the World Bank Workshop Moderators	
Sustainability and Engineering Education	Facilitated by <b>Nicolò Wojewoda</b> Co-founder and Coordinator of Student Platform for Engineering education Development (SPEED)	
<b>Working Coffee Break</b>		16:15

Continuation of the World Bank Workshop Session		16:45 - 18:45
A Look on the Ground and Ahead - Current Work and Future Opportunities	<p><b>(invited)</b> African Institute of Science and Technology</p> <p><b>Robert Hawkins</b> South Africa Representative of the World Bank, and Kigali Institute of Science and Technology</p> <p><b>Krishna Vedula</b> Executive Director of Indo-US Collaboration for Engineering Education (IUCEE), Executive Director of American Society for Engineers of Indian Origin (ASEI), and Dean Emeritus at University of Massachusetts -Lowell, USA</p> <p><b>M. P. Ravindra</b> Advisor on Education and Research for Infosys Technologies Ltd., India</p> <p><b>Duncan Fraser</b> Secretary General of the African Engineering Education Association (AEEA), and Professor at University of Cape Town, South Africa</p> <p><b>Jennifer DeBoer</b> Pre-Doctoral Fellow at Vanderbilt University, USA</p>	
Closing and Results of First Day of Summit	World Bank Workshop Moderators	
Break		18:45 - 19:30
Registered Guest Transportation leaves Westin Grand Cape Town Arabella Quays Hotel		19:00
<b>Cocktail and Dinner</b> sponsored by Autodesk (Location at University of Cape Town to be announced) (For IFEEES Summit Registered Attendees and Registered Guests)		19:30 - 21:00
<i>Moderator:</i> <b>Claudio Borri</b> , President of IFEEES, Past President of European Society for Engineering Education (SEFI), and Professor at University of Florence, Italy		
Brief remarks by sponsor	<b>Alan Jacobs</b> Senior Manager of University Programs, Autodesk	
<b>Keynote Speaker</b>  (Title to be announced)	<b>Konrad Osterwalder</b> Rector of United Nations University in Tokyo, Japan	
Buses depart for Westin Hotel		21:00

Monday - October 20, 2008

Sessions/ Topic	Speaker	Time
Buses leave Westin Grand Cape Town Arabella Quays Hotel		7:30
Session 4 (Auditorium)		8:00 -
<b>Interactive Panel:</b>		9:30
<b><i>Student Attraction and Success, and Lifelong Learning in Support of Knowledge Economies: Initiatives, Best Practices and their Application to the Developing World</i></b>		
This second panel <i>reaching in</i> to its member societies focuses on initiatives aimed at improving <i>engineering student attraction and success and lifelong learning</i> . The format of the panel allows for brief spotlights (5-8 minutes) of featured initiatives, and followed by round tables discussions.		
<i>Moderator: (invited)</i> , Board of European Students of Technology		
Student Initiatives	<p><b>(invited)</b> Board of European Students of Technology</p> <p><b>(invited Alexa Mabonga)</b> Association Internationale des Étudiants en Sciences Économiques et Commerciales (AIESEC), Tanzania</p> <p><b>Nicolò Wojoweda and Julia Ivanova</b> Founders of Student Platform for Engineering Education Development (SPEED)</p>	
Campus Connect: An Industry Initiative	<p><b>(invited R. N. Prasad)</b> Vice President of Education and Research at Infosys Technologies Ltd., India</p>	
Global Service Learning and Technical Practice Initiatives	<p><b>(invited Monica Rucki)</b> Engineering Without Borders - Canada</p> <p><b>(invited Regina Clewlow and Julie Chow)</b> Engineering for a Sustainable World</p>	
Autodesk Initiatives: K-12 and Forming Virtual Communities	<p><b>Alan Jacobs</b> Senior Manager of University Programs, Autodesk</p>	
African Initiatives and Responses	<p><b>(invited)</b> UNESCO sponsored African representatives</p>	
Round Tables 1 (TBA)		9:00 -
Participants will break into special interest groups (topics or themes to		9:30
Coffee Break		9:30

Session 5 (Auditorium)

10:00 -

**Interactive Panel:**

11:30

***Engineering Research, Development, Entrepreneurship and Innovation in Support of Knowledge Economies: Initiatives, Best Practices and their Application to the Developing World***

This third panel *reaching in* to its member societies focuses on initiatives aimed at improvement engineering research, development, innovation. The format of the panel allows for brief spotlights (5-8 minutes ) Of featured initiatives, and schedules time for round table interaction with the audience.

*Moderator:* **Jose Carlos Quadrado**, Summit Co-Chair and President of Instituto Superior de Engenharia de Lisboa, Portugal, and Representative of IberoAmerican Engineering Education Association (ASIBEI)

Sustainability of Engineering Research and Education	<b>(Invited) Maria Rimini-Döring</b> Director of Corporate Research and Advanced Engineering Human-Machine Interaction at Bosch GmbH
Initiative to Develop and Sustain Entrepreneurs	<b>Ramiro Jordan</b> Founder of Iberoamerican Science Technology and Education Consortium (ISTEC), and Professor at University of New Mexico, USA
Initiative to Develop a Global Community of Engineering Education Researchers	<b>Jack R. Lohmann</b> Editor of American Society of Engineering Education's Journal of Engineering Education, and Vice Provost for Institutional Development at Georgia Institute of Technology, USA
An Engineering Education Accreditation System Initiative for the Greater Caribbean	<b>Deborah Wolfe</b> Director of Education, Outreach and Research at Engineers Canada, and Board Member of Engineering for the Americas
EUR-ACE:A Pan-European Engineering Education Accreditation System	<b>Giuliano Augusti</b> EUR-ACE IMPLEMENTATION Project Coordinator, ENAEE President, Former SEFI President, Università di Roma "La Sapienza"

**Round Tables 2 (TBA)**

10:50-

Participants will break into special interest groups (topics or themes to be announced at the conference) to network, discuss members' initiatives and explore opportunities for collaborations in order to catalize and expand initiatives that promote knowledge economies. The aim is to promote new alliances and the formation of working groups that will drive projects that realize IFEEs' vision and strategic plan.

11:25

Session 6 (Auditorium)		11:25 -
Closing Session		12:00
Plans for IFEES 2009 Global Engineering Education Summit in St. Petersburg, Russia	<p><b>Yuri Petrovich Pokholkov</b> President of Russian Association of Engineering Education (RAEE) and Rector of Tomsk Polytechnic University, Russia</p> <p><b>Claudio Borri</b> President of IFEES, Past President of European Society for Engineering Education (SEFI), and Professor at University of Florence, Italy</p> <p><b>Lueny Morell</b> President Elect of IFEES, and Director of Engineering Education Innovation, HP Labs Open Innovation Office, Hewlett Packard</p>	
Closing and Evaluation	<p><b>Maria M. Larrondo Petrie</b> IFEES Summit Co-Chair and Vice President; Executive Director of Latin American and Caribbean Consortium of Engineering Institutions (LACCEI), Associate Dean and Professor, Florida Atlantic University, USA</p> <p><b>Jose Carlos Quadrado</b> IFEES Summit Co-Chair and Representative of IberoAmerican Engineering Education Association (ASIBEI), and Rector of Instituto Superior de Engenharia de Lisboa, Portugal (ISEL)</p>	
Lunch		12:00
IFEES General Assembly - sponsored by MathWorks		
<b>IFEES General Assembly</b>		13:45 -
Elections, bylaw changes, sustainability, remarks by outgoing		16:00
<b>Tour of the University of Cape Town Campus</b>		16:00 -
		17:30
<b>IFEES Executive Committee Meeting</b>		16:00 -
		17:30
Buses depart for Westin Hotel		17:30