

International Federation of Engineering Education Societies

2nd 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
Summit Registration - Convention Center		7:00
Buses leaves lobby of Cape Town International Convention Center to University of Cape Town		8:00
Session 1 (Auditorium)		8:30 - 10:15
Interactive Panel: <i>The Role of Engineering Education and Innovation in Knowledge Economies: Perspectives of Policy Makers</i> <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> María Larrondo-Petrie , 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 Duncan Fraser , Secretary General of the African Engineering Education Association (AEEA), and Professor at University of Cape Town, South Africa		
Welcome	Francis Petersen Dean of University of Cape Town, and South African Deans Council	
African Vision for the Summit	Funso Falade President of African Engineering Education Association (AEEA), and Professor of University of Lagos, Nigeria	
IFEES Vision for the Summit	Claudio Borri President of IFEES, Past President of European Society for Engineering Education (SEFI), and Professor at University of Florence, Italy	
Engineering Education in Africa	(invited Hon. Mosibudi Mangena) South African Minister of Science & Technology, and Chair of the African Ministers Science and Technology	
Engineering Education in Portugal	(invited Hon. Jose Mariano Gago) Minister of Science, Technology and Higher Education, Portugal	
Engineering Education in Russia	(invited Hon. Nikolav Ivanovich Bulaev) Head of Federal Agency for Education in the Ministry of Education & Science, Russian Federation	
Engineering Education in China	Hon. Qidi Wu Vice Minister of Education of the People's Republic of China	
European Perspective	(invited Ralph Rahders) European Commission	
American Perspective	(invited Arden L. Bement) Director of National Science Foundation, USA	
	Discussion and Interaction	
Coffee Break	Page 1 of 7	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	Hasan Mandal Vice Chair of Global Engineering Deans Council (GEDC) and Dean at Anadolu University, Turkey Satish S. Udpa Founding Member of GEDC, and Dean at Michigan State University, USA
Chinese Initiatives	Yu Shouwen 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
Iberoamerican Initiatives to Develop the Professoriate	Jaime Salazar Contreras Executive Director, IberoAmerican Engineering Education Association (ASIBEI), and Professor at Universidad Nacional, Colombia
European and Bologna Initiatives	Guy Haug European Engineering Education Expert
Francophone Africa Initiatives: Online Laboratories	Hamadou Saliah-Hassane 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
African Initiatives	Oumar Sock Professor, Ecole Supérieure Polytechnique de Dakar, and President of Conférence des Formations d'Ingénieurs et de Techniciens d'Expression Française (CITEF), Senegal
US-Africa Partnerships	Robert J. Gustafson National Science Foundation Workshop on US-Africa Collaborations, and Director of Engineering Education Innovation Center, Ohio State University, USA
Discussion and Interaction	

IFEES Lunch sponsored by Autodesk (location to be announced at University of Cape Town) 12:15 - 13:15

Session 3 (Auditorium)		13:15 -
World Bank Workshop:		18:15
<i>Engineering Education in the Knowledge Economy</i>		
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> Bruno Laporte , Manager, Knowledge and Human Development, World Bank Institute; Anuja Utz , Program Leader of Knowledge for Development Program, World Bank Institute; Lueny Morell , 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	Bruno A. Laporte Manager of Knowledge and Human Development at World Bank Institute Anuja Utz Program Leader of Knowledge for Development Program at World Bank Institute	
Engineering Education and its Support for the Knowledge Economy	Lueny Morell President Elect of IFEES, and Director of Engineering Education Innovation, HP Labs Open Innovation Office, Hewlett Packard Jenni Case Professor, University of Cape Town, South Africa	
Parallel Interactive Working Groups		15:45 -
Two interactive working sessions will be conducted in parallel to allow small group collaboration to generate short and long term action items.		16:15
Parallel Working Groups 1:		
World Bank Interactive Working Session:		
Integrating Perspectives - Bringing Together the Relevant Stakeholders		
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.		
Parallel Working Groups 2:		
IFEES - Global Student Forum Working Session:		
Sustainability and Engineering Education		
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 Nicolò Wojewoda Co-founder and Coordinator of Student Platform for Engineering education Development (SPEED)	
Working Coffee Break		16:15

Final World Bank Workshop Session		16:45 - 18:15
A Look on the Ground and Ahead - Current Work and Future Opportunities	<p>(invited) African Institute of Science and Technology</p> <p>Robert Hawkins South Africa Representative of the World Bank, and Kigali Institute of Science and Technology</p> <p>Krishna Vedula 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>M. P. Ravindra Advisor on Education and Research for Infosys Technologies Ltd., India</p> <p>Duncan Fraser Secretary General of the African Engineering Education Association (AEEA), and Professor at University of Cape Town, South Africa</p> <p>Jennifer DeBoer Pre-Doctoral Fellow at Vanderbilt University, USA</p>	
Closing and Results of First Day of Summit	World Bank Workshop Moderators	18:15 - 18:30
Buses depart University of Cape Town to Cape Town International Convention Center		17:30
Break		18:45 - 19:30
Registered Guest Transportation is not provided. We suggest Registered Guests gather in the lobby of the Westin Grand Cape Town Arabella Quays Hotel at 19:00 to organize and share taxis to University of Cape Town		19:00
<p>Cocktail and Dinner sponsored by Autodesk (Location at University of Cape Town to be announced) (For IFEEES Summit Registered Attendees and Registered Guests)</p> <p><i>Moderator:</i> Claudio Borri, President of IFEEES, Past President of European Society for Engineering Education (SEFI), and Professor at University of Florence, Italy</p> <p>Brief remarks by sponsor Alan Jacobs Senior Manager of University Programs, Autodesk</p> <p>Keynote Speaker <i>(Title to be announced)</i> Konrad Osterwalder Rector of United Nations University in Tokyo, Japan</p>		19:30 - 21:15
Buses depart University of Cape Town to Cape Town International Convention Center		21:30

Monday - October 20, 2008

Sessions/ Topic	Speaker	Time
Buses leave lobby of Cape Town International Convention Center to University of Cape Town		7:30
Session 4 (Auditorium)		8:00 -
Interactive Panel: <i>Student Attraction and Success, and Lifelong Learning in Support of Knowledge Economies: Initiatives, Best Practices and their Application to the Developing World</i>		9:30
<p>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.</p> <p><i>Moderator: Adriana Garboan</i>, Former Vice President of Board of European Students of Technology, Student at Politechnica University of Bucharest, Romania</p>		
Student Initiatives	<p>Adriana Garboan Former Vice President of Board of European Students of Technology (BEST), and Student at Politechnica University of Bucharest, Romania</p> <p>(invited Alexa Mabonga) Association Internationale des Étudiants en Sciences Économiques et Commerciales (AIESEC), Tanzania</p> <p>Nicolò Wojoweda and Julia Ivanova Founders of Student Platform for Engineering Education Development (SPEED)</p>	
Campus Connect: An Industry Initiative	<p>R. N. Prasad Vice President of Education and Research at Infosys Technologies Ltd., India</p>	
Global Service Learning and Technical Practice Initiatives	<p>Monica Rucki Engineering Without Borders - Canada</p> <p>(invited Regina Clewlow and Julie Chow) Engineering for a Sustainable World</p>	
Preparation for success in a global economy	<p>Stephen Stott EMEA Education Program Manager, Autodesk</p>	
African Response	<p>Michael O. Faborode Vice Chancellor of Obafemi Awolowo University, Nigeria</p> <p>Olufemi A. Bamiro Vice Chancellor of University of Ibadan, Nigeria</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 Vice President of IberoAmerican Engineering Education Association (ASIBEI)

I3 + S3 = the Bosch Doctorate Programme

Maria Rimini-Döring

Director of Corporate Research and Advanced Engineering Human-Machine Interaction at Bosch GmbH

Initiative to Develop and Sustain Entrepreneurs

Ramiro Jordan

Founder of Iberoamerican Science Technology and Education Consortium (ISTEC), and Professor at University of New Mexico, USA

Developinf a Global Community of Engineering Education Researchers

Jack R. Lohmann

Editor of the 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

Deborah Wolfe

Director of Education, Outreach and Research at Engineers Canada, and Board Member of Engineering for the Americas

EUR-ACE: European Accreditation of Engineering Education and the Global Context

Giuliano Augusti

ENAAE President, Coordinator of the EUR-ACE SPREAD project, Former SEFI President, 'La Sapienza Universita' di Roma

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 IFEEES' 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>Yuri Petrovich Pokholkov President of Russian Association of Engineering Education (RAEE) and Rector of Tomsk Polytechnic University, Russia</p> <p>Claudio Borri President of IFEES, Past President of European Society for Engineering Education (SEFI), and Professor at University of Florence, Italy</p> <p>Lueny Morell President Elect of IFEES, and Director of Engineering Education Innovation, HP Labs Open Innovation Office, Hewlett Packard</p>	
Closing and Evaluation	<p>Maria M. Larrondo Petrie 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>Jose Carlos Quadrado IFEES Summit Co-Chair and Vice President of IberoAmerican Engineering Education Association (ASIBEI), and President of Instituto Superior de Engenharia de Lisboa, Portugal (ISEL)</p>	
Lunch		12:00
Roundtrip shuttle from/to University of Cape Town to/from Cape Town International Convention Center		12:30 - 13:30
<p>ASEE Global Colloquium Parallel Workshops (University of Cape Town) (requires ASEE Global Colloquium registration - see ASEE Global Colloquium program for more detail)</p> <p>Workshop 5: Rigorous Research in Engineering Education</p> <p>Workshop 6: Engineering Service Learning: Improving Learning & Our Communities</p> <p>Workshop 7: Virtual Instrumentation Technologies for Hands-On Learning in Resource-Constrained Environments</p> <p>Workshop 8: Recent Advances in Engineering Problem Solving</p>		14:00 - 17:00
IFEES General Assembly of Members- sponsored by MathWorks		
IFEES General Assembly of Members (by Invitation Only)	Elections and business meeting	14:00 - 16:30
Colloquium Workshop Refreshment Break		15:00 - 15:30
IFEES Executive Committee Meeting (by Invitation Only)		16:45 - 17:45
Roundtrip shuttle from/to University of Cape Town to/from Cape Town International Convention Center		17:00 - 18:00
ASEE Global Colloquium Opening Reception (University of Cape Town) (requires ASEE Global Colloquium registration or ASEE Spouse-Guest registration)		18:00 - 20:00
Buses depart University of Cape Town to Cape Town International Convention Centre		20:00