



**IFEES**

INTERNATIONAL FEDERATION OF ENGINEERING EDUCATION SOCIETIES

**2008**

***Aligning Engineering Education Initiatives for a  
Knowledge Economy***



*Procedures of*

**Second IFEES**

**Global Engineering Education  
Summit**

19<sup>th</sup> -20<sup>th</sup> October

Cape Town, South Africa



**IFEES**

INTERNATIONAL FEDERATION OF ENGINEERING EDUCATION SOCIETIES

**Procedures of the**

**Second IFEES Global Engineering Education Summit**

*Aligning Engineering Education Initiatives for a Knowledge Economy*

**Missing some logos**



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American Society of Engineering Education  
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# IFEES Global Engineering Education Summit Program Committee

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**José Carlos Quadrado**

Vice President ASIBEI

Administrative Council European Society for Engineering Education (SEFI)

President Lisbon Superior Engineering Institute ISEL, Portugal

**María M. Larrondo Petrie**

Executive Committee Member, IFEES

Executive Vice President, Latin American and Caribbean Consortium of Engineering Institutions (LACCEI)

Florida Atlantic University, USA

## **Committee:**

**Funso Falade**

Executive Committee Member, IFEES

AEEA

University of Lagos

**Duncan Fraser**

Secretary-General, African Engineering Education Association

Assistant Dean for Academic Development, Faculty of Engineering and the

Built Environment, University of Cape Town

**Xavier Fouger**

Executive Committee Member, IFEES

Director Dassault Systemes

**Claudio Borri**

President, IFEES

European Society for Engineering Education (SEFI)

University of Florence, Italy

**Lueny orell**

Elected President IFEES

Director, University Relations HP Labs, Hewlett Packard Company

**Hans Jürgen Hoyer**

Deputy Secretary General, IFEES

Director of International Programs and Strategy, ASEE

**Ömer Hantal**

Executive Committee Member, IFEES

BEST

## To confirm and update to the last version

### 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
<b>Session 1 (Auditorium)</b>		
<b>Keynote Panel:</b>		8:30 -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
<b>Session 2 (Auditorium)</b> Interactive Panel:	10:45 -12:15
<b><i>Developing Engineering Education Infrastructure in Support of Knowledge Economies: Initiatives, Best Practices and their Application to the Developing World</i></b>	
<i>Reaching in</i> 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 <i>engineering education infrastructure</i> . The format of the panel allows for brief 5-8 minute presentations by each panelists, and schedules time for interaction with the audience.	
<i>Moderator:</i> <b>Funso Falade</b> , President of African Engineering Education Association (AEEA) and Professor at University of Lagos, Nigeria	
IFEES Global Engineering Deans Council Initiative	<b>Hasan Mandal</b> Vice Chair of Global Engineering Deans Council (GEDC) and Dean at Anadolu University, Turkey  <b>Satish S. Udpa</b> Founding Member of GEDC, and Dean at Michigan State University, USA
Chinese Initiatives	<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
Iberoamerican Initiatives to Develop the Professoriate	<b>Jaime Salazar Contreras</b> Executive Director, IberoAmerican Engineering Education Association (ASIBEI), and Professor at Universidad Nacional, Colombia
European and Bologna	<b>Guy Haug</b> European Engineering Education Expert

Initiatives	
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>
<b>Lunch</b> sponsored by Autodesk (location to be announced) 12:15	
<b>Session 3 (Auditorium)</b> 13:15 - 18:30	
<b>World Bank Workshop:</b>	
<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	<p><b>Bruno A. Laporte</b> Manager of Knowledge and Human Development at World Bank Institute</p> <p><b>Anuja Utz</b> Program Leader of Knowledge for Development Program at World Bank Institute</p>
Engineering Education and its Support for the Knowledge Economy	<p><b>Lueny Morell</b> President Elect of IFEES, and Director of Engineering Education Innovation, HP Labs Open Innovation Office, Hewlett Packard</p> <p><b>Jenni Case</b> Professor, University of Cape Town, South Africa</p>

**Parallel Interactive Working Groups**

15:45 - 16:30

Two interactive working sessions will be conducted in parallel to allow small group collaboration to generate short and long term action items.

**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 IFEEES Summit.

**Parallel Working Groups 2:**

**IFEEES - Global Student Forum Working Session:**

**Sustainability and Engineering Education**

IFEEES 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

**Continuation of the World Bank Workshop Session**

16:45 - 18:45

A Look on the Ground and Ahead - Current Work and Future Opportunities

**(invited)**

African Institute of Science and Technology

**Robert Hawkins**

South Africa Representative of the World Bank, and Kigali Institute of Science and Technology

**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><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>
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Closing and Results of First Day of Summit	World Bank Workshop Moderators
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Break	18:45 - 19:30
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Registered Guest Transportation leaves Westin Grand Cape Town Arabella Quays Hotel	19:00
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<p><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)</p> <p><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</p> <p>Brief remarks by sponsor <b>Alan Jacobs</b> Senior Manager of University Programs, Autodesk</p> <p><b>Keynote Speaker</b></p> <p><i>(Title to be announced)</i> <b>Konrad Osterwalder</b> Rector of United Nations University in Tokyo, Japan</p>	<p>19:30 - 21:00</p>
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Buses depart for Westin Hotel	21:00
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**Monday - October 20, 2008**

Sessions/ Topic	Speaker	Time
Buses leave Westin Grand Cape Town Arabella Quays Hotel		7:30

<b>Session 4 (Auditorium)</b>		
Interactive Panel:		8- 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 *reaching in* to its member societies focuses on initiatives aimed at improving *engineering student attraction and success and lifelong learning*. The format of the panel allows for brief spotlights (5-8 minutes) of featured initiatives, and followed by round tables discussions.

*Moderator: (invited)*, 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 - 9:30

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.

Coffee Break

9:30

**Session 5 (Auditorium)**

**Interactive Panel:**

10:00 - 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- 11:25  
 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.

**Session 6 (Auditorium) Closing Session** 11:25 - 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 Vice-President of IberoAmerican Engineering Education Association (ASIBEI), Member of the Administrative Council of the European Society for Engineering Education (SEFI) and President of Instituto Superior de Engenharia de Lisboa, Portugal (ISEL)</p>
Lunch 12:00	
<b>IFEES General Assembly - sponsored by MathWorks</b>	
<b>IFEES General Assembly</b> Elections, bylaw changes, sustainability, remarks by outgoing and incoming President	13:45 - 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

## **IFEES 2008 Summit Objectives**

Advance understanding of the relationship between engineering education and knowledge economies.

Share successful initiatives and best practices, and how they can be adapted to the developing world, with the goal of catalyzing alliances to align initiatives and leverage resources to support knowledge economies.

Develop local, global, short term and long term action items, relevant to the participants' organization or sector, that advance engineering education and knowledge economies.

Bring together global leaders from relevant sectors and provide opportunities to network to identify action items that advance common objectives, and to form alliances and working groups to advance these and report outcomes in the next summit.

Understand the needs and best practices/successes of IFEES member organizations (primarily engineering education associations) in order to initiate a dialogue that will enable IFEES to develop focused strategies to support development of its members in a focused sensible way (identifying needs of both developed and developing world engineering education associations)

Understanding the engineering education situation in Africa and how IFEES and eng education can support/help

## **Summit Target Groups**

Leaders from all sectors (academia, industry, government agencies, NGOs, private sector, banks (World Bank), and students) interested in engineering education and socio-economic development

## Sessions in Detailed

### IFEES Summit Session 1: Keynote Panel - Welcome

October 19 - 0830 - 1015

#### *Moderators:*



**Maria M. Larrondo Petrie**

Professor and Associate Dean for Academic and International Affairs in the College of Engineering and Computer Science at Florida Atlantic University in Boca Raton, Florida, USA, Maria has a B.Sc. degree in Mathematics, a M.S. in Computer Science, and Ph.D. in Computer Engineering. Her research interests focus on modeling complex systems, security, software engineering and engineering education have led to over 170 refereed publications and US\$2.7 million in grants funded by National Science Foundation, IBM, US Department of Defense's Department of Information Security Assurance, NATO, and the South Florida Water Management District. Maria is Vice President of the International Federation of Engineering Education Societies (IFEES), Executive Director of the Latin American and Caribbean Consortium of Engineering Education (LACCEI), Vice President of the Cartagena Network for Engineering, a Former President of the Upsilon Pi Epsilon International Honor Society for the Computing and Information Disciplines, and on the Board of the International Division, the Minorities in Engineering Division and the Women in Engineering Division of the American Society for Engineering Education (ASEE). She has served as Co-Chair of the 2007 and 2008 IFEES Global Engineering Education Summit. She is the lead organizer of the workshops on Strategies for Quality Assurance in Latin American and Caribbean Engineering Education, sponsored by the Organization of American States (OAS) and Engineering for the Americas (EftA) 2006-2008. She is the U.S. Mentor to the State of Gujarat for the Indo-US Collaboration for Engineering Education (IUCEE).



**Duncan Fraser**

Duncan Fraser is Assistant Dean for Academic Development in the Faculty of Engineering and the Built Environment at the University of Cape Town and a Professor in the Chemical Engineering Department. He teaches chemical engineering and does research in Engineering Education (especially student learning) and Process Synthesis (particularly Pinch Technology).

***Speakers:***

**Missing Francis**



***Claudio Borri,***

Claudio Borri studied Civil Engineering in Florence (Italy) and Bochum (Germany), achieving the Degree in Civil Engineering in 1978 and Ph.D. in Structural Mechanics in 1982. He is the Full professor of Computational Mechanics of Structures, School of Engineering, University of Florence (Italy), where he is currently the Vice-Dean for International Relations and Director of CRIACIV, the Inter-University Research Centre on Building & Environmental

Aerodynamics, this last grouping 6 Italian Universities; he is Editor/Co-Editor of 3 books and Author of approx 160 scientific publications. Prof. C. Borri has been awarded in 1994 with the “M. Plank Research Award” in Structural Mechanics by the M. Plank/A. von Humboldt Found in Germany; in 2001 he received the “Honorary Doctor Degree in Engineering Sciences” by the University of Architecture, Civil Engineering & Geodesy (UACEG) of Sofia, Bulgaria and in 2006 he received the Ing.-Paed. IGIP Honoris Causa by the University of Tallinn in Estonia. After the election as President of SEFI (2005-07), Prof. Borri was asked and elected as the Founding President of IFEES (2006-08). Prof. Borri is the promoter and initiator of several European large projects in EE: he has served as President and Legal Representative of E4 Thematic Network and is presently President and Legal Representative of TREE Thematic Network and of the EUR-ACE Implementation Project (2006-2008) within Socrates II.



**Falade Funso Alphonsus**

Falade Funso Alphonsus is a Professor of Civil Engineering at University of Lagos, Nigeria. He earned his Diploma in Quantity Surveying at Yaba College of Technology in 1978. He completed his M.Sc (Civil Engineering) at the Moscow Institute of Civil Engineering in the USSR in 1984. He returned to Nigeria to study for his PhD in Civil Engineering, gaining this qualification at the University of Lagos in 1998.

He has authored 45 articles on structural behaviour of innovative construction materials, failure analysis of reinforced concrete members and engineering education published in locally and internationally reputable journals. Prof. Falade has presented over 50 papers at workshops and seminars on such subjects as Project Management, Quality Control, Maintenance of Facilities, and Contract Procurement Processes etc.

Prof Falade is a fellow of Nigerian Society of Engineers, and he is registered by Council for Regulation of Engineering in Nigeria. He is a fellow of Institute of Corporate Administration of Nigeria and a member of Council of CDIO Institute for Africa, Pretoria, South Africa. He is a member of the Executive Committee and Vice President of International Federation of Engineering Education Societies. He is a UNESCO consultant. Prof. Falade is a promoter of engineering education.

He was the initiator of African Regional Conference on Engineering Education and the Chairman, Organising Committee and the Editor of the Proceedings of the 1<sup>st</sup> African Regional Conference on Engineering Education and Sub-Regional Workshop on New Engineering Curriculum (23<sup>rd</sup> – 25<sup>th</sup> September 2002). He is the current Chair, Dept of Civil and Environmental Engineering, University of Lagos, Nigeria



**Qidi Wu**

Ms. Wu is the Vice Minister for Ministry of Education, P.R.C, and member of Standing Committee of the National People's Congress.

Chairman for China National Engineering Education Committee, she hold the presidency of the Tongji University between 1995 and 2003.

## ***IFEES Summit Session 2: Interactive Panel:***

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

October 19 - 1045 - 1215

#### **Moderators:**



**Satish S. Udpa**

Satish S. Udpa is currently the Dean of the College of Engineering and Professor of Electrical and Computer Engineering at Michigan State University.

Udpa's research interests span the broad area of materials characterization and nondestructive evaluation (NDE). His research activities have been supported by federal agencies and private industry.

He has published extensively, holds several patents, and is the technical editor of the Electromagnetic Nondestructive Testing Handbook published by the American Society for Nondestructive Testing. He serves as the editor of the IEEE Transactions on Magnetics and is the regional editor of the International Journal of Applied Electromagnetics and Mechanics. Dr. Udpa is a Fellow of the Institute of Electrical and Electronics Engineers (IEEE), the American Society for Nondestructive Testing, and the Indian Society for Nondestructive Testing. Dr. Udpa also served as the permanent secretary of the World Federation of NDE Centers from 1998 to 2003.



**Hasan MANDAL**

Hasan Mandal (Prof.Dr.) was born in Eskisehir (Turkey) in 1965. He received his BSc in Metallurgy from Middle East Technical University (Turkey) in 1987 and PhD in Ceramic Materials from University of Newcastle (UK) in 1992. In 1996, he joined the department of Ceramic Engineering at Anadolu University. He became the Head of Department, Dean of the Faculty of Engineering at Anadolu University and General Secretary of Turkish Engineering Deans Council in 1999, 2004 and 2006, respectively. As a scientific expert, he has also been serving in several other positions including Turkish Higher Educational Council, The Scientific and Technological Research Council of Turkey, National Boron Institute, Turkish Ceramic Society, European Ceramic Society, Eskisehir Technological Development Park, World Innovation Foundation. H. Mandal represents Turkish Engineering Deans Council in IFEEES and he was recently elected as the vice chair of the Global Engineering Deans Council in May 2008.

### **Speakers:**



**Yu Shouwen ( S.-W.Yu):**

He is a Professor of Tsinghua University, Beijing, P.R. China ,and a member of Education Committee of Chinese Academy of Engineering, Deputy executive director of the Chinese Experts committee of Accreditation of Engineering Education (2005- ).Member of ASEE,GAMM,ESM, The Vice Chairman of the Chinese society of Engineering Education research , The Vice Chairman of Chinese Society of Higher Education.

He also is Vice-President and Dean of Graduate School of Tsinghua University (1992-1999) Vice President of the International Congress of Fracture(2001-2005), Honor fellow of Int. Conf. on Fracture in 2005. Vice President of Chinese Society of Theoretical and Applied Mechanics(1991-1999),Editor-in-Chief of “Acta Mechanica Solida Sinica”(1999-2007). Prof.

Yu coauthored five books and published 380 scientific and technical papers in the fields of Solid Mechanics and Fracture Mechanics as well as 40 papers in the field of Higher Engineering Education .

He has awarded of seven prizes on Scientific and Technological Achievement Awarded by State Education Commission of China and two National Natural Science Awards of China and one award of national excellent education..



**Hamadou Saliah-Hassane**

Professor Saliah-Hassane is a senior researcher at the Inter-university Research Center on Telelearning (CIRTA / LICEF), and member of the Ordre des ingénieurs du Québec (OIQ); of the IEEE (Member of the Administrative Committee of IEEE Education Society (- 2010), Communication Society and Computer Society); of the American Society for Engineering Education (ASEE); of the International Conference on Engineering Education Steering Committee (ICEE-ISC); of the International Network on Engineering Education and Research Steering Committee (iNEER) and of the Learning International Network Consortium (LINC). Professor Saliah-Hassane is President of PRONOTIC, a Canadian association promoting information and communication technology for education in Africa (sending surplus computers and software to schools and public libraries). He teaches informatics and computer networks at Télé-université, a Distance Education University of University of Quebec in Montreal (UQAM). Professor Saliah-Hassane has a PhD in Computer Aided Analysis and Design from the Electrical and Computer Engineering at McGill University in Montreal and a Master of Applied Science degree from École Polytechnique de Montréal. He is a former Chairman of the Electrical Engineering Department: International School of Mines, Industry and Geology (EMIG) in Niamey, Niger.



**Jaime Salazar Contreras**

Jaime Salazar Contreras is a professor at the Universidad Nacional de Colombia. Awarded by the Colombian government for their contributions to education and Colombian engineering in 2002 and 2004, he edited several publications on accreditation of engineering programmes in Latin America, curriculum guidelines for engineering careers in Latin America, and characteristics of engineering professors in Colombia. Is currently the executive secretary of the Ibero-American Engineering Education Association (ASIBEI).



**Guy HAUG**

Dr Guy is a European expert in higher education policies, cooperation and evaluation. He was centrally involved in the design and development of the European Higher Education Area, including in particular of its QA mechanisms. He is also a member of several European QA agencies. He holds Master degrees in Law (Strasbourg) and Management (Ottawa), a Doctorate in Political Science (Strasbourg/Tübingen) and a Doctorate h.c. (HETAC, Ireland).



**Oumar Sock**

M. Oumar Sock is Professor of Analytical Chemistry in the Chemical Engineering Department at Polytechnic College of Engineering, Cheikh Anta Diop University (Dakar, Senegal). He obtained his Bachelor of Science degree in Physical Sciences from that University in 1976, a Master of Science in Electrochemistry from Louis Pasteur University (LPU, Strasbourg, France) in 1977, a Doctorate 3eme Cycle (French system) in Electrochemistry in 1979 and a State Doctorate degree in Electrochemistry in 1986 from University Paris 12. He joined Cheikh Anta Diop University in 1987. He became Director of Technical and Vocational Teacher Training College (C.A.D. University) from 1990 to 1995, and Director of Polytechnic College of Engineering (C.A.D. University) from 1995 to 2003. Today, Pr. Sock is involved in many national and international activities. So, he is: Director of Electrochemistry and Membrane Processes Laboratory, founding member, member of the Board and Treasurer of Senegalese Academy of Sciences and Technology (founded in 1999), National Coordinator of World Bank's Higher Education Programs in Senegal, member of the Board of Scientific Council of "Agence Universitaire de la Francophonie", President of CITEF (since 2004), network of francophone colleges of Engineering from Africa, America, Europe and Asia. Pr.



**Robert J. Gustafson**

Robert J. Gustafson, P.E., PhD, is Honda Professor for Engineering Education and Director of the Engineering Education Innovation Center in the College of Engineering and a Professor of Food, Agricultural and Biological Engineering at The Ohio State University. He has previously served at Ohio State as Associate Dean for Undergraduate Education and Student Services (1999-2008). He has authored the textbook *Fundamentals of Electricity for Agriculture*. He is a Fellow and Past President of the American Society of Agricultural and Biological Engineers.



**Anuja Utz**

Anuja Utz is Program Leader of the Knowledge for Development (K4D) Program at the World Bank Institute. In her current position, she is responsible for maximizing the reach and impact of knowledge for development through leading and coordinating the group's policy advisory, research and learning activities.

She is the author of the innovative World Bank report on India and the Knowledge Economy: Leveraging Strengths and Opportunities (2005) and has contributed to the recently published K4D report on Building Knowledge Economies: Strategies for Development (2007), as well as to knowledge economy strategy reports--for Argentina, Brazil, Chile, China, Korea, and Tanzania--that provide analysis and recommendations on their transition to the knowledge-based economy. An important focus of her work has been on capacity development on the knowledge economy in client countries. She has organized a variety of policy fora for high

level policymakers and stakeholders from Africa, East Asia, and Latin America. In addition, she has designed the program's interactive Internet-based web-based tool: the Knowledge Assessment Methodology, which is now being used by clients both inside and outside the Bank.

In addition to more than 13 years experience as a development specialist at the World Bank, Ms. Utz has also taught and carried out research at Emory University, where she received her Masters and Ph.D. degrees in Economics.

## ***IFEES Summit Session 3:***

### ***World Bank Workshop:***

*October 19 - 1315 - 1845*

#### ***Moderators:***

##### ***Missing Photos Bruno***

##### **Bruno A. Laporte**

Bruno A. Laporte is currently managing the Human Development and the Knowledge for Development Group in the World Bank Institute. In his current responsibility, he oversees a number of teams focusing on Knowledge for Development, Education, Health & HIV/AIDS, and Social Protection. These programs aim at developing the capacity of client countries to access and use knowledge and to design and develop realistic and achievable strategies to address challenges in these sectors.

He joined the World Bank in March, 1985 and has worked extensively on education, training and employment issues in different countries -- Turkey, Egypt, Yemen, Algeria and Tunisia between 1985 and 1990 - - Yugoslavia, Poland, Bulgaria and Hungary between 1990 and 1995 - - Chile, Philippines, and the Caribbean between 1995 and 2000. In 1995, he transferred to the Human Development Network where he contributed to the launch of the Network, and the creation of the Education Sector Board. During that time, he pioneered the development of a very innovative global best practice system in education, organized around Thematic Groups and the Education Advisory Service. In 2001, he transferred to the World Bank Institute to lead the Knowledge Sharing Program, focusing on the Bank's corporate agenda in knowledge management, and providing advice and support to all organizational units across the Bank. Between 2004 and 2005, he served as an Advisor in the Office of the Vice President of the World Bank Institute, focusing on knowledge, learning and quality assurance functions.

Prior to joining the Bank, he worked as an Advisor in the Ministry of Finance and Planning in Ivory Coast. He also worked in the private sector, with Manufacturers Hanover Trust in Paris. He holds degrees in Business Administration from France and in Education Administration and Planning from Harvard School of Education in the USA



**Lueny Morell**

Lueny Morell, M.S., P.E., is Director of Engineering Education Innovation of the Open Innovation Office at Hewlett Packard Laboratories (HPL) in Palo Alto, California. She is responsible for developing engineering education and curriculum innovation and student initiatives worldwide in support of HPL research and technology areas. From 2002-06, she was director of HPL University Relations for Latin America and the Caribbean in charge of building research and education collaborations with universities throughout the region. Before joining HP, Lueny was full professor of Chemical Engineering at the University of Puerto Rico - Mayagüez (UPRM) where she held positions at the Campus and UPR system level, including director of the Campus Research & Development Center. Recipient of the 2006 US National Academy of Engineering Bernard M. Gordon award, her work in curriculum, research, accreditation and economic development activities has been published in more than 80 papers, book chapters and journals. She is a member of various national and international boards including the US National Science Foundation International Science and Engineering Advisory Committee, the ASEE International Advisory Committee and President-elect of the International Federation of Engineering Education Societies.

***Speakers:***



***Jennifer DeBoer***

Jennifer DeBoer is a doctoral student in Vanderbilt University's Leadership and Policy program, specializing in International Education, as well as a member of SPEED. She completed her undergraduate studies in Mechanical Engineering and Foreign Languages at MIT. Her current research interests are in economic development, technology, and education.



**Robert Hawkins**

Senior Education Specialist with Focus on Science and Technology, ICT in education activities and open, distance and e-learning initiatives.

Robert Hawkins has managed a number of projects in the World Bank including the ICT (Information and Communication Technology) for Education component of the Education program in the World Bank Institute, the Africa Virtual University project and the World Links for Development project. Prior to joining the World Bank Institute, Robert spent four years working for the World Bank Africa region, promoting ICT connectivity, policy, and capacity building. Prior to joining the Bank, Mr. Hawkins worked at the White House on NAFTA legislation and worked for the United States Information Agency in Seville, Spain. He received his MA from the Johns Hopkins School for Advanced International Studies (SAIS), with a concentration in economics and Latin American studies and his BA from the University of Notre Dame.

## ***IFEES Summit Session 4: Interactive Panel:***

### ***Student Attraction and Success, and Lifelong Learning in Support of Knowledge Economies: Initiatives, Best Practices and their Application to the Developing World***

October 20 - 0800 – 0930

#### **Moderator:**



**Adriana Garboan**

Adriana Garboan is currently an undergraduate student at Polytechnic University of Bucharest, Romania, aiming for Bachelor in Electronics and Telecommunications.

She is the former Vice-President for External Services in the International Board of BEST (Board of European Students of Technology). Within this function she was supervisor of the BEST's organizational activity of complementary and non-formal education and responsible for over viewing the organizational aim of educational involvement towards European students.

Amid BEST's educational scope, she worked in direct contact with students, developing means of raising students' awareness on educational matters, and taking an active role in improving education by providing the input of students to European stakeholders of Engineering Education.

#### **Speakers:**

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**Nicolò Wojewoda**

Nicolò Wojewoda is a recent M.Sc. double degree graduate in Engineering & Policy Analysis at the Delft University of Technology (The Netherlands) and at the Harbin Institute of Technology (People's Republic of China), receiving in 2008 the TU Delft Rector's Student Prize for Internationalization for his activities related to engineering education. During his B.Sc. in Computer Engineering at the University of Rome "La Sapienza" (Italy), he has been an exchange student at Linköping University (Sweden) through an EU SOCRATES Erasmus scholarship.

In 2005/2006, he has been the coordinator of the Educational Committee of BEST (Board of European Students of Technology) and as such, dealing with issues related to European policies in the field of engineering education. He has been a member of the Management Committee and of the Scientific Committee of the TREE (Teaching and Research in Engineering in Europe) Thematic Network, supported by the European Commission in the framework of the SOCRATES Erasmus programme. He has been also coordinating a Special Interest Group within the TREE Thematic Network called "Stimulating student research in the first cycle". In October 2006, he co-founded SPEED (Student Platform for Engineering Education Development), a worldwide student initiative for improving the overall quality and impact of engineering education, which he is currently coordinating. Since July 2007, he is a member of the Administrative Council of SEFI (European Society for Engineering Education).



**Monica Rucki**

Monica Rucki has been involved with Engineers Without Borders Canada (EWB) since 2003. In January 2008, she joined the EWB Overseas Leadership Team as a full time staff member with the task of launching EWB's newest program in Engineering Education. Based in Malawi, Monica is working with engineering schools in the Southern African region in developing programs to strengthen engineering training and to build collaborations with engineering schools in Canada. Monica is also managing EWB's partnership with the Lilongwe University of Science and Technology, a new university being developed by the Government of Malawi.

Monica grew up in Victoria, British Columbia, Canada and completed her engineering studies in Integrated Engineering at the University of British Columbia. It was in 2003, midway through her degree, when she first got involved with EWB and was selected to go overseas on a short term placement in East Timor. After graduation, Monica worked with EWB in Ghana for 10 months as a volunteer with the Kumasi Institute of Technology and Environment. In 2007, she then moved on to Malawi for a second year overseas with EWB, volunteering with the Lilongwe University of Science and Technology (LUSTECH). While working with LUSTECH she realized the challenges with engineering training in Africa and proposed the concept of a new EWB program in Engineering Education. Following this proposal she was promoted to the national office to launch the new Engineering Education pilot.



**Stephen Stott**

Stephen Stott is the Education Program Manager for Manufacturing Solutions for Europe, the Middle East and Africa from Autodesk. Stephen collaborates with university faculty in this region on research activities related to creativity and innovation and bringing Autodesk's digital solutions to a student population engaged in a broad scope of engineering disciplines. Stephen's background is in engineering and Design in the UK, Canada and the Middle East where he worked in the Petrochemical and Machine Design industries. His experience in education includes positions in the UK Secondary Education system as an Advisory Teacher for Design and Technology where he develop creativity curricula and pedagogy to enhance imaginative designing practices in Computer Aided Design and Manufacture.

## ***IFEES Summit Session 5: Interactive Panel:***

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

October 20 - 1000 – 1130

#### **Moderator:**



**José Carlos Quadrado**

José Carlos Quadrado is the full professor of electrical machines in the electrical engineering and automation department of the Instituto Superior de Engenharia de Lisboa (ISEL), Portugal. Currently he holds the position of President of ISEL.

He also holds the position of Vice-President of the Ibero-American Engineering Education Association (ASIBEI), member of the Administrative Council of the European Society for Engineering Education (SEFI) and was also an active participant in the creation of the International Federation of Engineering Education Societies (IFEES) where he represents all the Portuguese Engineering Education Institutes (ISE's). He was also a visiting professor in several universities around the world and leader of several international engineering institutions.

Being a member of several engineering societies and engineering education societies in several continents, he holds over 100 international publications (including journals and chapters of books), several patents and some international technical prizes, awards and scholarships. He also holds the position of editor and editor-in-chief in some technical journals.

#### **Speakers:**

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**Maria Rimini-Döring**

Maria Rimini-Döring (Italy) is currently Researcher at Corporate Research and Advance Engineering of Robert Bosch GmbH. Her present field of activity is on the Human-Machine Interaction, Cognitive Ergonomics.

She holds a Master Degree in Electronics Engineering from the University of Pavia as member of the Collegio Ghislieri and a PhD in Physics from the University of Stuttgart.

Coming from an academic background she got involved since 1999 with educational and curriculum issues, organising school contacts, mentoring external diploma and doctoral students and giving talks at the University in Stuttgart on "Women in Engineering and Science" for female high school students. She was invited speaker in several European conferences and activities (EUA, Tuning, Marie Curie, Engineering Deans, TREE etc.) on research training, doctoral programmes and engineering education. In 2005 she was asked to join the "Working Group on Intersectoral Mobility - Knowledge and skills development" of the European Commission (EC) in Brussels and 2006 was appointed by the European Commissioner for Research as member of the External Advisory Group "People" for the 7th Framework Programme. In 2007 she joined the EC working group "Women in Science and Technology". Since 1996 she actively participates in the Bosch Women Network, "women@bosch".



**Jack R. Lohmann**

Dr. Lohmann is vice provost for Faculty and Academic Development and professor of Industrial and Systems Engineering at the Georgia Institute of Technology. His principal responsibilities include the initiation, development, and accreditation of the Georgia Tech's academic programs and the management of faculty development and promotion. He also is

the president's liaison to the Southern Association of Colleges and Schools (SACS) and the National Collegiate Athletics Association (NCAA). Dr. Lohmann has held appointments at the University of Michigan, the University of Southern California, l'École Centrale Paris, and the National Science Foundation. He was recently elected to a three-year term on the SACS Commission on Colleges.

Dr. Lohmann earned his B.S.M.E. from Oklahoma State University and his M.S. and Ph.D. in Industrial Engineering and Engineering Management at Stanford University. Among the external sponsors of his research work are AT&T, Continental AG, Desso Systems, ExxonMobil, GM, Hewlett-Packard, IBM, Microsoft Research, Motorola, National Science Foundation, Procter & Gamble, Sloan Foundation, and the United Engineering Foundation. He has received the Presidential Young Investigator Award and the Director's Award for Excellence (National Science Foundation), the A.M. Wellington Award (Institute of Industrial Engineers), and the Centennial Certificate and the John L. Imhoff Global Excellence Award (American Society for Engineering Education). He is a Fellow of the Institute of Industrial Engineers, the American Society of Engineering Education, and the European Society for Engineering Education.

Dr. Lohmann has served on a number of advisory boards, including the NSF EHR Advisory Board, Purdue's Department of Engineering Education Academic Advisory Council, and the World Association for Cooperative Education Board of Governors, among others. His most recent professional contributions include editor of the *Journal of Engineering Education*, member of the executive planning committee for the 7<sup>th</sup> Global Colloquium for Engineering Education, and co-chair (with Dr. Leah Jamieson) of the recently launched NSF-sponsored study, "Engineering Education for the Global Economy: Research, Innovation, and Practice."



**Deborah Wolfe**

Deborah Wolfe, P.Eng., holds the position of Director on Education, Outreach and Research with Engineers Canada (Engineers Canada is the business name of the Canadian Council of Professional Engineers). She is responsible for the accreditation of undergraduate engineering programs in Canada as well as Engineers Canada's research program and foreign credential evaluation program.

Ms. Wolfe is the Treasurer for the Canadian Engineering Memorial Foundation and the Past-Chair of the Canadian Network of National Associations of Regulators. She is also a former Chair of the Association of Accrediting Agencies of Canada.

A graduate of the University of Western Ontario's civil engineering program, she served in the Canadian Forces as a military engineer prior to joining Engineers Canada. Ms. Wolfe is a licensed Professional Engineer in the province of Ontario.



**Giuliano Augusti**

Prof. Giuliano Augusti, President of ENAEE, former coordinator of the EUR-ACE and EUR-ACE IMPLEMENTATION Projects, now coordinator of EUR-ACE SPREAD, is a Full Professor of Solid and Structural Mechanics in the Università "La Sapienza", Roma. Over the years, in parallel with his teaching and scientific research activities, he has acquired a vast experience in the field of recognition and accreditation of engineering education at the national and European level, and has published and edited a number of papers and reports on the subject.

Prof. Augusti was a member of the SEFI Administrative Council for many years and President in 1987/88; since several years he sits also in the Editorial Board of the European Journal of Engineering Education (EJEE). In 1994 Prof. Augusti chaired an EC Task Force in charge of investigating possible synergies between recognition of qualifications for academic and professional purposes: the report of this Task Force led to an EC Recommendation issued in December 1994.

Since 1997, Prof. Augusti has been active with continuity in European Thematic Networks on Engineering Education (H3E; 1997-99; E4; 2000-04; TREE; 2004-2008). In the TREE Network, he is the promoter of Line A "Tuning" and Leader of the Special Interest Group A5 "Accreditation of EE in Europe". Since 2004, besides coordinating the quoted EC-supported "EUR-ACE" (EUROPEAN ACCREDITED ENGINEER) (2004-2006), EUR-ACE IMPLEMENTATION (2006-2008) and EUR-ACE SPREAD (2008-2010) projects, he has been active in several analogous projects, like "PRO-EAST: promotion and implementation of the EUR-ACE Standards in Russia" (2006-2007), "LEPAC: Creation of a Lebanese Engineering Accreditation Commission" (2006-2008), EUR-ACE RUSSIA (2008-2010).

In September 2004, Prof. Augusti was awarded the SEFI "Leonardo da Vinci" Medal for "his outstanding contributions to European Higher Engineering Education and Research".

## ***IFEES Summit Session 6: Closing and Evaluation***

October 19 - 1045 – 1215

### ***Summit Co-chairs***



***José Carlos Quadrado***

***María Larrondo Petrie***

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