



THE 10TH WORLD CONGRESS ON ENGINEERING EDUCATION

Beirut 29-30 October 2015



PROGRAM

PROGRAM
Lancaster Plaza
 Beirut – Lebanon
 Opening Ceremony

Thursday 29/10/2015		MAIN HALL
8:00 – 9:00	Registration – main lobby	
9:00 – 9:05	<ul style="list-style-type: none"> Opening Ceremony - The National Anthem 	
9:10 – 9:20	<ul style="list-style-type: none"> Eng. Abdul Menhem Alameddine – Chair, World Federation of Engineering Organizations - Committee of Education in Engineering (WFEO-CEIE). 	
9:20 – 9:35	<ul style="list-style-type: none"> Dr. Adel Hudaithi- Secretary General of Federation of Arab Engineers (FAE). 	
9:40 – 10:00	<ul style="list-style-type: none"> Eng. Marwan Abdul Hamid - President of the World Federation of Engineering Organizations (WFEO). 	
10:00 – 10:15	<ul style="list-style-type: none"> Eng. Khaled Chehab – President of the Federation of Lebanese Engineers (FLE). 	
10:15 – 10:30	<ul style="list-style-type: none"> His Excellency The Minister of High Education Mr. Elias Bou Saab. 	

10:30 – 11:00 Cocktail Break

Thursday 29/10/2015 : Day 1 Morning session

Thursday 29/10/2015		Guest Speakers
Moderator: Eng. Abdul Menhem Alameddine – Chair, World Federation of Engineering Organizations - Committee of Education in Engineering (WFEO-CEIE)- Lecturer University of Balamand		
11:00 – 11:30	Dr. Paul Boulos – On behalf of ASEE and ASCE.	1
11:30 – 12:00	Mr. Kamel Hawwash – SEFI President.	2
12:00 – 12:30	Dr. Peter Greenwood – WFEO Vice President, IEA Past President.	3
12:30 – 1:00	Dr. Ahmad Jammal – Director General – Ministry of High Education.	4
1:00 – 1:30	Questions and Answers	

1:30 – 15:00 Lunch Break

Thursday 29/10/2015 : Day 1 Afternoon session 1

Thursday 29/10/2015	15:00 – 15:30	Keynote speaker for session 1 and 2 Dr. Fadi Deek, Provost and Senior Executive Vice President - New Jersey Institute of Technology	5
Moderator: Makram Suidan, Ph.D, Dean, Faculty of Engineering and Architecture, American University of Beirut			
Session 1 : Sustainability Approach for Engineering Ethics and development			
Session Chair 1: Fadi Geara, Ph.D., Dean, Faculty of Engineering – ESIB - USJ, ASEE Lebanon Branch elected Chair			
	Title and Author		Abstract #
15:45 – 16:00	Ethics And Professional Conducts-Key Prerequisites For Sustainability , Kamel Ayadi, P.P. of WFEO, Chairman of Global Infrastructure Anti-corruption Center for MENA Region		8
16:00 – 16:15	Engineering Ethics & Sustainability - W.E. Kelly, George Mason University, Fairfax, VA, USA		9
16:15 – 16:30	Ways of Innovating in Education For Sustainable Design Principles , Osama Omar, Marwan Halabi, Assistant Professors, Faculty of Architectural Engineering, Beirut Arab University, Lebanon		10
16:30 – 16:45	Sustainability and Engineers: A Perspective To Future Generation And Society , Antoine Abche, Faculty of Engineering, University of Balamand, Lebanon		11
16:45 – 17:00	Questions and answers		
17:00 – 17:15	Coffee Break		

Thursday 29/10/2015 : Day 1 Afternoon session 2

Session 1 : Sustainability approach for engineering ethics and development		
Session Chair 2: Rafic Younes, Ph. D., Dean, College of Engineering – Lebanese University		
17:15 – 17:30	Sustainable Development Within Suburbs As A Model For Managing Urban Growth: A Case Study From Palestine - Salem A. Thawaba, Associate professor, Architectural Engineering Department, Birzeit University, Palestine	12
17:30 – 17:45	An Approach For Introducing Sustainability In Engineering Education , Ghassan R. Chehab, Associate Professor - Maha Mrad, Graduate Student, American University of Beirut, Lebanon	13
17:45 – 18:00	Achieving Sustainable Adaptive Reuse In Architectural Design Studio Using Environmental Simulation - Hiba Mohsen, Samer El Sayary, Faculty of Architectural Engineering, Beirut Arab University, Lebanon	14
18:00 – 18:15	Sustainability In Civil Engineering Education - Nariman Khalil, Associate Professor, Faculty of Engineering, University of Balamand - Lebanon	15
18:15 – 18:30	Questions and answers	

Friday 30/10/2015 : Day 2 Morning session 1

Friday 30/10/2015	9:00 – 9:30	Keynote speaker for session 1 & 2 J.P. Mohsen, Vice Chair WFEO-CEIE, Professor & Chair at University of Louisville, KY- USA	6
Moderator: Karim Nasr , Ph. D., Professor of Mechanical Engineering, Assistant to the President for Academic Advancement, Dean, Faculty of Business and Management, University of Balamand			
Session 2 : Sustainability Approach For Engineering Education			
Session Chair 1: Ibtihal El-Bastawissi , Ph.D, Dean, Architecture, planning & urban design, Beirut Arab University			
	Title and Author		Abstract #
9:45 – 10:00	Virtual Electronics Laboratory for Effective On-line Education in Electrical Engineering - Sreelatha A. Subramanyam, David Beams, and James K. Nelson - College of Engineering, The University of Texas at Tyler, Texas, USA		16
10:00 – 10:15	Efficiency of Assignments In The Evaluation Procedure At The School of Engineering of The Lebanese International University - Oussama Tahan, Zaher Merhi, Samih Abdul-Nabi Lebanese International University, Beirut; Farah Baraké University of Balamand, Balamand, Lebanon		17
10:15 – 10:30	Combining Teaching Strategies And Learning Styles In The Engineering Education – Chady Abou Jaoude, Université Antonine, Baabda, Lebanon		18
10:30 – 10:45	Flipping an Engineering Course: Implementation And Results - Barbar Akle and George Nasr, School of Engineering, Lebanese American University		19
10:45 – 11:00	Questions and answers		

11:00 – 11:20

Coffee Break

Friday 30/10/2015 : Day 2 Morning session 2

Session 2 : Sustainability Approach For Engineering Education		
Session Chair 2: Amin A. Hajj-Ali, Ph.D., Dean, School of Engineering –Lebanese International University		
11:20 – 11:35	Experiences And Lessons Learnt From Embedding Sustainability In Engineering Omonigho B. Otanocha ^{1*} , Charmaine Cummings ² , Bland Tomkinson ¹ , Helen Dobson ¹ , Veronica Sanchez Romaguera ² , Rosemary Tomkinson ³ . ¹ School of Mechanical, Aerospace and Civil Engineering, ² Manchester Business School, ³ Faculty of Engineering and Physical Sciences, The University of Manchester, Manchester	20
11:35 – 11:50	A Multi-Disciplinary Approach to Developing an Introductory Course in Engineering and Architecture - Farook Hamzeh, Hazem Hajj, Naseem Daher, Carla Aramouny Mu'tassem Shehadeh , and Karim Najjar - Faculty of Engineering and Architecture, American University of Beirut, Lebanon	21
11:50 – 12:05	Climate Responsive and Environmentally Sensitive Building Design at The Faculty of Engineering And Architecture, AUB - Aram Yeretizian, Assistant Professor, Faculty of Engineering and Architecture, American University of Beirut, Lebanon	22
12:05 – 12:20	Integrating GIS In The Lebanese Curricula – Fatima Mshawrab, Hiba Moussa, and Mohamad Abboud Surveying Engineering, LIU, Beirut – Lebanon	23
12:20 – 12:40	Questions and answers	

13:00 – 14:30 PM Lunch Break

Friday 30/10/2015 : Day 2 Afternoon session 3

Friday 30/10/2015	14:30 – 15:00	Keynote speaker for session 3 & 4 Mr. Dirk Bochar, VP EURO-ACE – VP, FEANI	7
Moderator: Michel Hayek , Ph. D, Dean, Faculty of Engineering – Notre dame University			
Session 3 : Accreditation of Engineering Programs			
Session Chair 3: Joseph Zaarour , Ph. D, Faculty of Architecture, Holy Spirit University			
	Title and Author		Abstract #
15:15 – 15:30	Higher engineering education and scientific research in The face of un-employment, investment and development challenges: lost relationships – Abdul hassam El-Husseini, Professor at Faculty of Engineering at the Lebanese University, Lebanon		24
15:30 – 15:45	Innovative And Sustainable Entrepreneurship: The Role of Academic Institutions in Lebanon , Issam Srour ¹ , Mona Itani ² , Associate Professor, Faculty of Engineering and Architecture, The American University of Beirut, ² Ph.D. Candidate, School of Management, The University of Leicester; and Instructor, Faculty of Engineering and Architecture, The American University of Beirut, Lebanon		25
15:45 – 16:00	Renewable Energy Education In The United Arab Emirates - Omar K. Al-Kaaki ¹ , Ali H. Assi ¹ , Ibrahim A. Assi ² , Hassan A.N. Hejase ³ , ¹ Lebanese International University, Department of Electrical Engineering, Beirut, Lebanon, ² American University of Beirut, Department of Mechanical Engineering, Beirut, Lebanon ³ United Arab Emirates University, Department of Electrical Engineering, Al-Ain, UAE		26
16:00 – 16:15	Questions and answers		

16:15 – 16:30 Coffee break

Friday 30/10/2015 : Day 2 Afternoon session 4

Session 3 : Accreditation of Engineering Programs		
Session Chair 4: Roni Darazi, Ph.D., Associate Professor – University Antonine		
16:30 – 16:40	Web-Based Syllabus Generator - Bassam Hussein, Samih Abdul-Nabi, Zaher Merhi, Amin Haj-Ali, Lebanese International University, Beirut, Lebanon	27
16:45 – 17:00	Building A Sustainable Partnership Between Private Sector And Academic Institutions In Palestine , K. A. Nigim and H.H. Nigim , Professor, School of Technology, Energy and Apprenticeship, Lambton College, Sarnia, Ontario, Canada. Professor, Faculty of Engineering, Birzeit University, Palestine	28
17:00 – 17:15	An Earthquake Engineering Program Adequate To Lebanon Needs - Nisrine Makhoul, Faculty of Engineering, University of Balamand - Lebanon.	29
17:15 – 17:30	Identification and Assessment of Potential Environmental Impacts of Cesspits on Selected Groundwater Wells in Tulkarem District using Groundwater Modeling - Lina M. Hamarshi 1, Mohammad N. Almasri 2 ,1 Faculty of Graduate Studies, 2 College of Engineering, Department of Civil Engineering - An-Najah National University, Nablus, Palestine	30
17:30 – 17:45	Online Professional Green Engineering Education - Nesreen Ghaddar, Faculty of Engineering and Architecture, American University of Beirut, Lebanon	31
17:45 – 18:00	Questions and answers	

