

Africa Engineering Conference with UNESCO-Africa Engineering Week, Kigali Convention Center–Rwanda 25th– 29th September 2017

THEME: “EFFECTIVE WASTE MANAGEMENT IN AFRICA”

Conference Program

DAY 1-Monday, 25 th September, 2017			
Time	Activity	Presenter	Parallel AEW activities
09.00-10.30hrs	Opening Press Conference	IER,FAEO,WFE0 and AU Officials Venue: KCC AD 04	Accreditation of all delegates
	Speakers Briefing	Venue: KCC AD 01	
10.30-11.00hrs	Health Break		Venue: Kigali Convention Center
14.30-16.30hrs	Visiting Kigali Genocide Memorial Site	All Foreign Delegates	
18.00-20:30hrs	Welcoming Cocktail Venue: Kigali Convention Center	All Delegates	

DAY 2-Tuesday, 26 th September, 2017			
Time	Activity	Presenter	Parallel AEW activities
Opening Session	Official Opening	Venue: KCC MH1 & MH2	
07.30-09.00hrs	Arrival of delegates	Conference protocol	
09.00-09.10hrs	Welcoming statement	Eng. Kazawadi Papias Dedeki <i>IER President</i>	
09.10-09.20hrs	Opening Remarks from <i>UNESCO</i>	Ms. Alice Ochanda <i>UNESCO Representative</i>	
09.20-09.30hrs	Opening Remarks from <i>FAEO</i>	Eng. Julius Riungu, FIEK <i>President FAEO</i>	
09.30-09.40hrs	Opening Remarks from <i>WFEO</i>	Eng. Martin Manuhwa <i>WFEO, Vice President, Representing WFEO President</i>	
09:40-09:50hrs	Opening Remarks from AU	Eng. Dr. Ahmed Hamdy <i>Executive Director, Scientific, Technical and Research Commission, African Union</i>	
09: 50-10:00hrs	Welcome Address and invite Guest of Honor	Hon. James Musoni <i>Minister of Infrastructure</i>	

DAY 2-Tuesday, 26 th September, 2017			
Time	Activity	Presenter	Parallel AEW activities
10: 00-10:30hrs	Keynote Speech & Official Conference Opening	The Chief Guest of Honor	
10:30-11:00hrs	Photo session and Exhibition Official Opening Ceremony	Conference Secretariat and Protocol	
Session 1	General Plenary Session 1	Session Moderator Dr. Christine Gasingirwa, <i>Director General in charge of Science and Technology, Ministry of Education</i>	
11:00-11:15hrs	A Presentation on Survey findings of statistical data on women in science and engineering in schools and workforce in Africa	Eng. Valerie I. Agberagba <i>Vice President WFEO/ Chairperson FAEO Women in Engineering desk.</i>	
11:15-11:30hrs	Panel Discussion/Q&A	Panelists	
	General Plenary Session 2	Session Moderator: Eng. Julius Riungu, FIEK <i>President FAEO</i>	
11:30-11:45hrs	Pilot feasibility study for Infrastructure Anti-Corruption: The Case of Zambia and Zimbabwe	Eng. Martin Manuhwa <i>WFEO Vice President, FAEO President-Elect and Chairman of WFEO Anti-Corruption Committee</i> Apollinaire Mupiganyi <i>Executive Director TI Rwanda</i>	
11:45-12:00hrs	Presentation on Capacity Building of Engineering Institutions in Sub-Saharan Africa. GCRF Africa Catalyst Program	Ms. Louise Olofsson <i>GCRF Program Manager The Royal Academy of Engineering</i>	
12:00-12:30hrs	Panel Discussion/Q&A	Panelists	
12:30-14:00hrs	Lunch and Visiting Exhibitors	All Delegates	
Session 2:	Papers on Solid Waste Management /Liquid Waste Management	Session Moderator : Eng. Didier Sagashya, <i>Executive Secretary, City of Kigali</i>	
14:00-14:10hrs	Keynote Speaker	Eng. Aime Muzola <i>Chief Executive Officer, Water and Sanitation Corporation</i>	

Time	Activity	Presenter	Parallel AEW activities
14:15-14:30hrs Paper 1	AEC 217 44 Solid Waste Management in Africa: Case Study Review in Nigeria. <i>Engr. OTIS Anyaeji, FNSE, FAEng and Engr. IMO Ekpo, FNSE</i>		EAFEO EXCO Meeting (15:00-17:00hrs)
14:20-14:30hrs Paper 2	AEC 217 46 Collection and transportation of Solid waste in Kigali City. <i>Dr. Twagira Elias, Barisanga Fabrice and Ndayisaba Cyprien</i>		
14:30-14:40hrs Paper 3	AEC 217 17 Management structure as a factor of performance of Solid Waste Management projects in African municipalities: A case of Bushenyi - Ishaka Municipality, Western Uganda <i>Kenan Okurut, Moses Nuwamanya, Jennifer Isoke and Eleanor Wozzi</i>		
14:40-14:50hrs Paper 4	AEC 217 47 Safe removal of waste from pit latrine toilettes and low-cost treatment in Kigali, Rwanda <i>Laura Stupin</i>		
14:50-15:05hrs	Panel Discussion/Q&A	Panelists	
Session 3	Papers on Entrepreneurship in waste management/ Waste as a resource/ waste transformation technology	Session Moderator Erik Schmidt Taarnhoj CEO, Biokube, Denmark	
15:05-15:15hrs	Keynote Speaker	Mr. Hiroyuki Takada <i>JICA Country Representative in Rwanda</i>	
15:15-15:25hrs Paper 1	AEC 217 50 Making food waste separation a main stream practice for anaerobic digestion in the management of municipal wastes; Kigali City. <i>Dr. Sylvie Mucyo, Guillaume Nyagatara and Joseph C. Akuma</i>		
15:25-15:35hrs Paper 2	AEC 217 43 Biogas Generation from Agricultural wastes. An Egyptian Experience in a Nile Delta Village (El Nenaiea) <i>Eng. Hassan Gomaa</i>		
15:35-15:45hrs Paper 3	AEC 217 45 Effect of rice husk ash on concrete in seawater environment. <i>John K. Makunza</i>		

Time	Activity	Presenter	Parallel AEW activities
15:45-15:55hrs Paper 4	AEC 217 08 Copper Mine Waste A Potential Resource For Zambia. <i>Ebelia Manda Mvula, Dr Rodrick Lamya and Misozi Makangila Daka</i>		
15:55-16:05hrs Paper 5	AEC 217 14 Utilization of waste plastic in manufacturing of Plasto-bricks. <i>Moses Kiptoo Kigen, Andrew Kavugwi Amutemwa and Isaac Kibet</i>		
16:05-16:15hrs Paper 6	AEC 217 10 Mineral base oil recovery from waste lubricant grease. <i>Daka Makangila Misozi, Mwaba Victor, Mvula Ebelia and Chanda Phiri Tina</i>		
16:15-16:45hrs	Panel Discussion/Q&A	Moderator and Presenters	

DAY 3-Wednesday, 27th September, 2017

Time	Activity	Presenter	Parallel AEW activities
Session 4	Papers on Trends and Sustainability in waste management	Session Moderator Eng. (Mrs.) Carlein D. Bouc-Chedid, FGHIE <i>President Ghana Institution of Engineers</i>	
07.30-08.00hrs	Arrival of Delegates	Conference Secretariat	
08:00-08:10hrs	Keynote Speaker	Eng. Oba F Jones <i>Chief Engineer Techsult and Company Ltd, Sierra Leone</i>	
08.10-08:20hrs Paper 1	AEC 217 41 New concept for the collection and management of wastes collected from households in greater Cairo. <i>Aiman A. Rsheed and Rashwan T.N. Al Mashhour</i>		
08:20-08:30hrs Paper 2	AEC 217 34 Cost Reduction Opportunities in Ecosan Construction in Households of Rugarama and Cyanika Sectors in Burera District, Rwanda. <i>Jean Sauveur UWINTWARI</i>		
08:30-08:40hrs Paper 3	AEC 217 26 Grey Water Recycling in Nairobi using Safi-Maji System. <i>Ojwang Benson Onyango, Samamba Amunga and Okoth Kevin Odongo</i>		

Time	Activity	Presenter	Parallel AEW activities
08:40-08:50hrs Paper 4	AEC 217 24 Use of titanium dioxide pigment for air purification in Africa <i>Mweu Pauline Nana</i>		
08:50-09:05hrs	Panel Discussion/Q&A	Panelists	
Session 5	Papers on Education and Training on waste management	Session Moderator Prof. Phillip Cotton <i>Vice Chancellor, University of Rwanda</i>	
09:05-09.15hrs	Keynote Speaker	Prof. Silas Lwakabamba <i>Vice Chancellor, University of Kibungo (UNIK)</i>	
09:15-09:25hrs Paper 1	AEC 217 39 Lessons from Public and Private Composting Facilities in Ghana. <i>George N. K. Rockson, Charles Quansah, Ernest Yanful and Elias Delali Aklaku</i>		
09:25-09:35hrs Paper 2	AEC 217 30 Studies on vermicompost production in Rwanda and its nutritive values. <i>Sankaranarayanan , AVE Maria Therese and Jean NKUNDABERA</i>		
09:35-09:45hrs Paper 3	AEC 217 31 Empowering Communities to recycle and add value to urban organic waste <i>Guillaume Nyagatare, Sylvie Mucyo, Valentin Mucyomwiza and Dieudonné Muvuny</i>		
09:45-09:55hrs Paper 4	AEC 217 13 Modeling of storm water runoff for Kitwe CBD drainage system using SWMM software. <i>Banda Davy and Kasitu Richard</i>		
09:55-10:05hrs	Panel Discussion/Q&A	Panelists	
10:05-10:35hrs	Health break and visiting exhibitors	All Delegates	
Session 6	Papers on Urbanization and waste generation/ Industrial Waste Management	Eng. Dr. Dorothy Okello <i>President, Uganda Institution of Professional Engineers</i>	
10:35-10:45hrs	Keynote Speaker	Eng. Eric Serubibi <i>Director General, Rwanda Housing Authority</i>	

Time	Activity	Presenter	Parallel AEW activities
10:45-10:55hrs Paper 1	AEC 217 03 Recycling High-Density Polyethylene (HDPE) into Construction Materials as a key step in Plastic Waste Reduction: Case of Kigali City. <i>INGABIRE Dominique, NTIHEMUKA Fulgence, MUGABO GITARE, ISABANE Remy Serge and TURATIMANA Théogene</i>		Egyptian Syndicate of Engineers Meeting with IER EXCO (10:00Am to 12:00Noon)
10:55-11:05hrs Paper 2	AEC 217 05 Use of Cement Kiln Dust (CKD) as a sludge stabilizer to enhance its fast drying and pathogen removal. <i>Gava Job Ssazi Pius, Kaijukyo Deborah and Byamukama Timothy</i>		
11:05-11:15hrs Paper 3	AEC 217 27 Power Utility approach to waste management of faulty electrical power equipment: Case study of Kenya Power. <i>Kahoro Wachira</i>		
11:15-11:30 hrs	Panel Discussion/Q&A	Panelists	
Session 7	Papers on Construction and demolition wastes	Session Moderator Dr. Elias M. Twagira <i>Vice President, Institution of Engineers Rwanda</i>	
11.30-11:40hrs	Keynote Speaker	Mr. Eugen Haguma <i>CEO, Horizon Group</i>	
11.40-11:50hrs Paper 1	AEC 217 35 Production of roof tiles manufactured from recycled plastics and sand. <i>Binyebebe Maurice, Bizimana Abdoul Razack, Uwamahoro Aimee and Mugisha Fred</i>		
11.50-12:00hrs Paper 2	AEC 217 22 Designing out Waste: Plastic Voided Slabs. <i>Mosioma Wycliffe Onchuru</i>		
12:00-12:10hrs Paper 3	AEC 217 32 Concrete Demolition Waste as an Alternative for Pavement Subgrade Stabilization. <i>Emmanuel TWAGIRIMANA, Gerard BANZIBAGANYE and G. Senthil Kumaran</i>		
12:10-12:20hrs Paper 4	AEC 217 37 Strength characteristics of blocks from demolished and recycled concrete waste. <i>Dr. MBEREYAHU Leopold, NTITANGURANWA Jean Paul, KABANO James and GASINGWA Noel</i>		
12:20-12:30hrs Paper 5	AEC 217 28 Experimental Investigation on the Seismic Performance of Sustainable Concrete Beam- Columns Using GGBFS <i>Susan Abaham, P.S Joama and Aby Sam</i>		

Time	Activity	Presenter	Parallel AEW activities
12:30-13:00hrs	Question & Answer/ Conclusion	Panelists	FAEO EXCO Meeting (15:00-17:00 hrs)
13:00-14:00hrs	Lunch Break and visiting Exhibitors	All Delegates	
Session 8	Papers on Waste management and environment	Session Moderator: Eng. M. D. Wanjau, FIEK <i>Chairman, Engineers Board of Kenya</i>	
14:00-14:10hrs	Keynote Speaker	Eng. Coletha Ruhamy Director General <i>Rwanda Environment Management Authority</i>	
14:10-14:20hrs Paper 1	AEC 217 04 Management and Disposal of Used Oil - A Case Study Of Menengai Geothermal Field. <i>Collins Changole and Dominic Mutai</i>		
14:20-14:30hrs Paper 2	AEC 217 01 Assessing stakeholders' mindsets for improving de- cisions for managing the impact of municipal waste streams on flooding. <i>L.Y. Salifu¹, S. Oduro-Kwarteng, H. Esi-Awuah and K. Keelson</i>		
14:30-14:40hrs Paper 3	AEC 217 15 Effects of Solid and Liquid Waste on Water Supply: The case of Ndola City, Zambia. <i>Happy Musumali</i>		
14:40-14:50hrs Paper 4	AEC 217 18 Leveraging Technology as an Effective Method of Waste Management in Africa. <i>Mworia Dennis Muriuki and and Kevin Odongo</i>		
14:50-15:00hrs Paper 5	AEC 217 29 Utilization of Waste Glass Powder and Rice Husk Ash for Development of Eco-friendly Reactive Powder Concrete. <i>Belachew Asteray, Walter Oyawa and Stanley Shitote</i>		
15:00-15:10hrs Paper 6	AEC 217 40 Mechanical performances of concrete with granite sawing powder wastes. <i>Innocent Nkurikiymfura and Kamanzi Jean D'Amour</i>		
15:10-16:00hrs	Panel Discussion/Q&A	Panelists	

DAY 4-Thursday, 28 th September, 2017			
Time	Activity	Presenter	Parallel AEW activities
Session 9	Papers on Standards, Code of practice and legal issues	Moderator: Eng. Mpembe Ngwisa FIET, <i>President EAFEO/ Institution of Engineers Tanzania</i>	
07:30-08:00hrs	Arrival of Delegates	Conference Secretariat	
08:00-08:15hrs	Keynote Speaker	Mr. Raymond Murenzi <i>Director General,</i> <i>Rwanda Standards Board</i>	
08:15-08:30hrs	AEC 217 20 Legal aspects of waste management in Tanzania A Paper 1 <i>Menye David Manga</i>		
08:30-08:45hrs	AEC 217 25 Air Pollution Regulation in African Cities Using Moss Plant. <i>Ignatius Waikwa Maranga</i>		
08:45-09:15hrs	Panel Discussion/Q&A	Panelists	
Session 10	Oath Taking for all compliant engineers	Session Chair: <i>Hon. Minister of Infrastructure</i>	
09:15-10:15hrs	All IER Compliant members	IER Governing Council	
10:15-11:00hrs	Health Break and visiting exhibitors	All delegates	
Session 11	Closing Session	Session Moderator : <i>Eng. Julius Riungu, FIEK</i> <i>President FAEO</i>	
11:00-11:30hrs	Conference resolutions	Conference repertoire	
11:30-11:45hrs	Vote of thanks	Eng. Kazawadi Papias Dedeki, <i>President,</i> <i>Institution of Engineers Rwanda</i>	
11:45-12:00hrs	Announcement of the Institution to host 2018 AEW	Eng. Julius Riungu, FIEK, <i>President, FAEO</i>	
12:00-12:30hrs	Official Closing remarks	Chief Guest: Hon. Dr. Vincent Biruta <i>Minister of Environment</i>	
12:30-14:00hrs	Lunch Break	All Delegates	

Time	Activity	Presenter	Parallel AEW activities
14:00-16:30hrs	Nzove Water treatment plant (Team 1)	Culligan International	
	Bugesera e- Waste Management Project (Team 2)	Organizing Committee/ Olivier - MINICOM	
	Economic Free Zone (Team 3)	Organizing Committee/ RDB	
	ECOPLASTIC-MAGER-AGERE	Habamungu	
18:00-21:00hrs	Gala Night and Awards Guest of Honor: Hon. James Musoni, Minister of Infrastructure Venue: Kigali Serena Hotel	Organizing Committee	

DAY 5-Friday, 29th September, 2017

Activity

Departure of all delegates