

PROGRAMME

DAY 1

TIME	SESSION TITLE	SESSION CHAIRPERSON	PAPER AND SUBJECT
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DAY ONE(1) WEDNESDAY 25TH NOVEMBER 2020

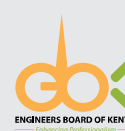
08.00 - 09.00	REGISTRATION	IEK SECRETARIAT	
09.00 – 10.30	OPENING SESSION	Eng. Margaret W.N. Ogai, CE, FIEK Hon. Secretary, IEK	<p>CONFERENCE MESSAGE: Eng. Collins Juma, CE, FIEK, MBS - <i>Conference Committee Chair</i></p> <p>ADDRESS: Prof. Dr. Gong Ke, <i>WFEO President</i></p> <p>ADDRESS Eng. Martin Manuhwa-FAEO President;</p> <p>ADDRESS Eng. Mustafa Shehu, FNSE-WFEO Executive Vice President</p> <p>ADDRESS: Eng. Erastus K. Mwongera, CE, FIEK - <i>Chairman EBK</i></p> <p>WELCOME ADDRESS: Eng. Nathaniel Matalanga, CE, FIEK - <i>President IEK</i></p> <p>ADDRESS & INVITE THE CHIEF GUEST: Prof. Arch. Paul M. Maringa (PHD), CBS, Corp. Arch, MAAK, MKIP <i>Principal Secretary State Department of Infrastructure</i></p> <p>OFFICIAL OPENING: Chief Guest Mr. James Wainaina Macharia, EGH <i>Cabinet Secretary for Transport, Infrastructure, Housing and Urban Development</i></p>

10.30 – 10.35: GROUP PHOTO SESSION

10.35 - 11.00: TEA BREAK

11.00 - 11.25	KEY NOTE SPEAKERS	<p>KEY NOTE PAPERS Session Chair Eng. Rosemary Kungu CE, FIEK</p> <p>Assistant Chair Eng. Erick Ohaga, CE, FIEK</p>	<p>11.00 - 11.30: KEY NOTE PAPER 1 Dr. Marlene Kanga <i>WFEO IPP</i></p>
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11.25 - 11.30: Break to two streams



TIME	SESSION TITLE	SESSION CHAIRPERSON	PAPER AND SUBJECT
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STREAM 1: ARABUKO

11.30 – 13.00	SESSION 1 (ONE) Sub-Theme1: Engineering the Sustainable Development Goals (SDGs)	SESSION 1 Session Chair Eng. Jane Mutulili, CE, FIEK Assistant Chair Eng. Lucy Wanjiku, PE, MIEK	11.30 – 11.55: Paper 1 Session 1(S1) – 1.1 Process Modeling of a Medical Ventilator Using Cyber-Physical Systems J.B Byiringiro, P.N Kioni, A.C Kibor, P.K Rono, H. Smajic, F.I Maina <i>Dedan Kimathi University of Technology</i>
			11.55 – 12.20: Paper 2 Session 1(S1) – 1.2 Pump Stations: Dealing with the Non-Revenue Power in Water Dick Ndiewo <i>Ditech Engineering Limited</i>
			12.20 – 12.45 : Paper 3 Session 1(S1) – 1.3 Design of Durable Concrete Mixes for Reinforced Concrete Structures Gladwell Wanjiku Nganga, Siphila Wanjiku Mumenya and Silvester Ochieng Abuodha <i>Department of Civil and Construction Engineering, University of Nairobi</i>
			12.45 – 13.00: Question and Answer

End of the two streams

13.00 - 14:00 LUNCH BREAK

14.00 – 14.55	KEY NOTE SPEAKERS	Session Chair Eng. Prof Silvester Abuodha CE, FIEK	14.00 – 14.30: KEY NOTE PAPER 2 Engr. Mustafa Balarabe Shehu, <i>FNSE- WFEO Executive Vice President</i>
			14.30 – 14.55: KEY NOTE PAPER 3 Prof. Dr. José Manuel Vieira , <i>WFEO President Elect</i>

14.55 - 15:00 : Break to two streams

DAY ONE(1) WEDNESDAY 25TH NOVEMBER 2020

TIME	SESSION TITLE	SESSION CHAIRPERSON	PAPER AND SUBJECT
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STREAM 1: ARABUKO

15.00 – 16.40	SESSION 2 (TWO)- Sub-Theme1: Engineering the Sustainable Development Goals (SDGs)	SESSION 2 Session Chair Eng. Grace Onyango PE, MIEK Assistant Chair Prof. Emmanuel C. Kipkorir, PE, PhD, MIEK	15.00 – 15.25 : Paper 4 Session 2(S1) – 2.1 Paradigm Shift in Linking Engineering with the Roots; Engineering the Food Security Agenda Eng. Ndambuki Kilonzo, Eng. Paul Karara Ngunjiri, Nathan Yego <i>Kenyatta University, Oville Associates, Jomo Kenyatta University of Agriculture and Technology,</i>
			15.25 – 15.50: Paper 5 Session 2(S1) – 2.2 Underground Spaces Construction Technology and its Impact Post COVID-19 Pandemic in Kenya D. Maina, D. Mauti, J. Muchiri, B.Alunda, V.Rono <i>Taita Taveta University, Athi Water Works Development Agency, Tunnelling Association of Kenya</i>
			15.50 – 16.15: Paper 6 Session 2(S1) – 2.3 Role of Nuclear Energy in Combating Climate Change Eng. Collins Gordon Juma, Chesire Kipkemboi Edwin, <i>Nuclear Power and Energy Agency</i>
			16.15 – 16.40 : Question and Answer

End of the two streams

16.40 – 17.00 HEALTH BREAK

17.00– 18.00	FREE TIME		
18.00– 19.00		EAFEO Secretariat	EAFEO Executive Committee meeting
19.00– :	COCKTAIL	IEK SECRETARIAT	

TIME	SESSION TITLE	SESSION CHAIRPERSON	PAPER AND SUBJECT
DAY ONE(1) WEDNESDAY 25TH NOVEMBER 2020			

STREAM 2: SHIMBA

11.30 – 13.00	SESSION 1 (ONE) Sub-Theme 5: 4 th Industrial Revolution and Industry 4.0	SESSION 1 Session Chair Eng. Francis Ngokonyo, CE, FIEK Assistant Chair Eng. Roseline Jilo, PE, FIEK	11.30 – 11.55: Paper 18 Session 1(S2) – 1.1 Industry 4.0 and Potential Opportunities Eng. Andrew Masila <i>Telecommunications and Technology Expert</i>
			11.55 – 12.20 : Paper 19 Session 1(S2) – 1.2 Exploring the Applicability and Challenges of Implementing Industry 4.0 Technologies in the Small and Medium Sized Industries in Kenya Obadiah Burugu Nganga <i>Faculty of Engineering, University of Auckland</i>
			12.20 – 12.45: Paper 20 Session 1(S2) – 1.3 Implementation of Drone Technology in the Kenyan Construction Industry Mercy Akinyi Asuna <i>Jomo Kenyatta University of Agriculture and Technology</i>
			12.45 – 13.00: Question and Answer
End of the two streams			

13.00 - 14:00 LUNCH BREAK

14.00 – 15.00	KEY NOTE SPEAKERS	Session Chair Eng. Prof Silvester Abuodha CE, FIEK	14.00 – 14.30: KEY NOTE PAPER 2 Engr. Mustafa Balarabe Shehu, <i>FNSE- WFEO Executive VP</i>
			14.30 – 14.55: KEY NOTE PAPER 3 Prof. Dr. José Manuel Vieira , <i>WFEO President Elect</i>

14.55 – 15.00: Break to two streams

DAY ONE(1) WEDNESDAY 25TH NOVEMBER 2020

TIME	SESSION TITLE	SESSION CHAIRPERSON	PAPER AND SUBJECT
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STREAM 2: SHIMBA

15.00 – 16.40	SESSION 2 (TWO)- Sub-Theme 3: Smart cities and Intelligent infrastructure	SESSION 2 Session Chair Eng. Larry Gumbe, CE, FIEK Assistant Chair Eng. Michael Kamau, PE, MIEK	15.00 – 15.25: Paper 21 Session 2(S2) – 2.1 Intelligent Transportation Systems Infrastructure gap in Nairobi City James Ogutu Aloo <i>NAS International Holdings Limited</i>
			15.25 – 15.50 : Paper 22 Session 2(S2) – 2.2 Machine Learning Use Cases in Electricity Distribution Adrian Onsare. <i>Utility Management & Consultancy Department, KPLC</i>
			15.50 – 16.15 : Paper 23 Session 2(S2) – 2.3 Intelligent Infrastructure Integration for Smart Cities Nyagaka Charles; <i>Fiber Networks Planner</i>
			16.15 – 16.40 : Question and Answer

End of the two streams

16.40 – 17.00 HEALTH BREAK

17.00– 18.00	FREE TIME		
18.00– 19.00		EAFEO Secretariat	EAFEO Executive Committee meeting
19.00– :	COCKTAIL	IEK SECRETARIAT	

DAY 2

TIME	SESSION TITLE	SESSION CHAIRPERSON	PAPER AND SUBJECT
DAY TWO(2) THURSDAY 26TH NOVEMBER 2020			
8.00 – 8.40	KEY NOTE SPEAKERS	Session Chair Eng. Joel Wanyoike, CE, FIEK	8.00 - 8.20: KEY NOTE PAPER 4 Eng. Nicholas Musuni <i>EBK Registrar/CEO</i>
			8.20 – 8.40: KEY NOTE PAPER 5 Ezra Odhiambo, <i>Chairman-Nuclear Power & Energy Agency</i>
8.40 – 8.45 Break to two streams			

STREAM 1: ARABUKO

08.45 – 10.20	SESSION 3(THREE): Sub-Theme 2: Big four Agenda and Vision 2030	SESSION 3 Session Chair Eng. Joel Wanyoike, CE, FIEK Assistant Chair Eng. Justus Otwani , CE, MIEK	8.45 – 9.10: Paper 7 Session 3(S1) – 3.1 Applicability of Public Private Partnerships in Development of Low-cost Housing to Meet Kenya Vision 2030 and Related Goals Dr. Daniel Mutegi Giti <i>Principal Housing Officer, State Department for Housing, Nairobi.</i>
			9.10 – 9.35 : Paper 8 Session 3(S1) – 3.2 KenGen CSR Project to Expand Naivasha Hospital during the Covid-19 Pandemic by Construction of an Outpatient Departmental Complex. Eng. Moses Nthiga <i>Project Manager, KenGen</i>
			9.35 – 10.00 : Paper 9 Session 3(S1) – 3.3 Post-COVID Economic Recovery: Rethinking Kenya's Road Infrastructure Development Model Margaret Ogai; Timothy Oketch; Evelyne Kihiu; James Gachanja <i>General Manager Planning & Programming, Kenya Roads Board; TIMCON Associates; KIPPRA</i>
			10.00 – 10.20 : Question and Answer

End of the two streams

10.20 - 10.40: TEA BREAK

10.40-11.20	KEY NOTE SPEAKERS	Session Chair Ing. Leslie Alex Ayeh	10.40 - 11.00: KEY NOTE PAPER 6 Pavel Oimeke, <i>DG, EPRA</i>
			11.00 - 11.20: KEY NOTE PAPER 7 The Likoni Floating Bridge Project Eng. Peter Mundinia, <i>DG, KeNHA</i>

TIME	SESSION TITLE	SESSION CHAIRPERSON	PAPER AND SUBJECT
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11.20 - 11.25: Break to two streams

STREAM 1: ARABUKO

11.25 – 13.00	SESSION 4(FOUR): Sub-Theme 7: Climate Change Resilience Sub-Theme 4: Development of National, County and Regional value chains	SESSION 4 Session Chair Ing. Leslie Alex Ayeh Assistant Chair Eng. Shammah Kiteme, PE, MIEK	11.25 – 11.45: Paper 10 Session 4(S1) – 4.1 Are Rainfall Intensities Changing, Could it be Climate Change and what could be the Impact on Engineering Hydrologic Design and Structures? Joshua Kiprotich Kibii and Emmanuel C. Kipkorir <i>Department of Civil and Structural Engineering, Moi University</i>
			11.45 – 12.05 : Paper 11 Session 4(S1) – 4.2 Climate Resilience for Hydro Power Projects at Project Development Stage Eng. Michael Kalumbu Nsefu <i>Zambia Metrology Agency /University of Lusaka</i>
			12.05 – 12.25 : Paper 12 Session 4(S1) – 4.3 Formulation of Sustainable Road Maintenance Policies in Counties; A Study of Bomet County Adeline Cheptoo Nyole <i>County Government of Bomet</i>
			12.25 – 12.45 : Paper 13 Session 4(S1) – 4.4 Integrity: A Tool for Competitive Advantage for Engineers in Post Pandemic Joel Alfred Mwendwa
			12.45 – 13.00 : Question and Answer

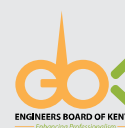
End of the two streams

13.00 - 14.00: LUNCH BREAK

14.00 – 15.00	KEY NOTE SPEAKERS	Session Chair Eng. Collins Juma, CE, FIEK, MBS	14.00 – 14.20: KEY NOTE PAPER 8 Eng. Martin Manuhwa, <i>FAEO President</i>
			14.20 – 14.40: KEY NOTE PAPER 9 Irrigation and sustainable land productivity in Kenya Eng. Wangai Ndirangu <i>Chairman, KeNHA</i>
			14.40 – 15.00: IEK COVID- 19 CSR INITIATIVES Eng. Grace Kagonda

15.00 - 15:15 TEA BREAK

15.15 - 15:20: Break to two streams



DAY TWO(2) THURSDAY 26TH NOVEMBER 2020

TIME	SESSION TITLE	SESSION CHAIRPERSON	PAPER AND SUBJECT
STREAM 1: ARABUKO			
15.20 – 17.10	SESSION 5 (FIVE): Sub-Theme 2: Big four Agenda and Vision 2030	SESSION 5 Session Chair Eng. Babagana Mohammed, FNSE, President NSE Assistant Chair Eng. Christine Ogut, PE, MIEK	15.20 – 15.45 : Paper 14 Session 5(S1) – 5.1 Role of Big Four Agenda and Vision 2030 for Kenya’s Sustainable Development Eng. Peter Mutinda
			15.45 – 16.10 : Paper 15 Session 5(S1) – 5.2 Plant Commissioning Post COVID-19; Remote Commissioning Eng. Fanuel Kiwinda Mwashigadi
			16.10 – 16.35: Paper 16 Session 5(S1) – 5.3 Mobile GIS based Traffic Count using AR-Traffic Count Eng. A. Kilaini (<i>GIS & Software Developer</i>) & Eng. R. Kachhepati (<i>Database & Software Developer</i>) <i>Tanzania</i>
			16.35 – 17.00: Paper 17 Session 5(S1) – 5.4 The Potential Application of Solar Thermal Powered Adsorption Chillers for Cooling Buildings in Nairobi County-Kenya Dickson Giconi Kivindu <i>Murang’a University of Technology</i>
			17.00 – 17.30 : Question and Answer
End of the two streams			
17.30 - 18:00 TEA BREAK			
18.00 – 19.00		EAFEO Secretariat	EAFEO General Assembly

STREAM 2

TIME	SESSION TITLE	SESSION CHAIRPERSON	PAPER AND SUBJECT
DAY TWO(2) THURSDAY 26TH NOVEMBER 2020			
8.00 – 8.40	KEY NOTE SPEAKERS	Session Chair Eng. Joel Wanyoike CE, FIEK	8.00 - 8.20: KEY NOTE PAPER 4 Eng. Nicholas Musuni <i>EBK Registrar/CEO</i>
			8.20 – 8.40: KEY NOTE PAPER 5 Ezra Odhiambo, <i>Chairman-Nuclear Power & Energy Agency</i>

8.40 – 8.45: Break to two streams

STREAM 2: SHIMBA

08.45 – 10.00	SESSION 3 (THREE): Sub-Theme 6: Academia, Research and Development	SESSION 3 Session Chair Eng. Prof. Richard Onchiri PE, MIEK Assistant Chair Eng. Grace Kagonda, PE, MIEK	8.45 – 9.10: Paper 24 Session 3(S2) – 3.1 A Survey of Engineers' and Engineering Students' Perceptions on Ethical Behavior Emmanuel C. Kipkorir, Sum Kipyego, and Rioba Oteki <i>Department of Civil and Structural Engineering, School of Engineering, Moi University</i>
			9.10 – 9.35: Paper 25 Session 3(S2) – 3.2 Academia & Practice: Retrofitting Columns with CFRP Muthomi Munyua, Siphila Mumenya, John Mwero, Sixtus Mwea & George Kyalo <i>School of Engineering, University of Nairobi and CGP Consulting Engineers</i>
			9.35 – 10.00: Paper 26 Session 3(S2) – 3.3 Influence of Public Private Partnership on Implementation of Railway Transport Project in Kenya: a Case of Standard Gauge Railway in Nairobi Rose Wanja Kinyua <i>School of Open Distance Learning, University of Nairobi</i>
			10.00 – 10.20 : Question and Answer

End of the two streams

10.20 - 10.40: TEA BREAK

DAY TWO(2) THURSDAY 26TH NOVEMBER 2020

TIME	SESSION TITLE	SESSION CHAIRPERSON	PAPER AND SUBJECT
10.40-11.20	KEY NOTE SPEAKERS	Session Chair Ing. Lislie Alex Ayew President GhIE	10.40 – 11.00: KEY NOTE PAPER 6 Pavel Oimeke, <i>DG, EPRA</i>
			11.00 – 11.20: KEY NOTE PAPER 7 The Likoni Floating Bridge Project Eng. Peter Mundinia, <i>DG, KeNHA</i>

11.20 – 11.25: Break to two streams

STREAM 2: SHIMBA

11.25 – 13.00	SESSION 4(FOUR): Sub-Theme 6: Academia, Research and Development	SESSION 4 Session Chair Eng. Prof. Walter Oyawa Assistant Chair Eng. Doreen Kirima PE, MIEK	11.25 – 11.45: Paper 27 Session 4(S2) – 4.1 Determination and Mapping of the Bearing Capacity of Subsurface Soil: A Case Study of Moi University, Eldoret Kenya. Davis Sagini, Sum Kipyego, Benard Omondi <i>School of Engineering, Moi University</i>
			11.45 – 12.05 : Paper 28 Session 4(S2) – 4.2 Computer Program for Frame Analysis and Design Paul Sebastian Okoth, Joseph Kisia Osome, Maria Achieng Akulu, Amos Otieno Ochieng' <i>Department of Civil and Structural Engineering, Moi University</i>
			12.05 – 12.25: Paper 29 Session 4(S2) – 4.3 Sustainable Infrastructure in Kenya; Effect of local mixing methods on properties of concrete with low water/binder ratio Eng. Isaiah Kiburi Achini <i>School of Engineering, University of Nairobi and Kenya Ports Authority.</i>
			12.25 – 12.45: Paper 30 Session 4(S2) – 4.4 The Missing Link for Graduate Engineers: Transferring Academia into a Practical Engineering World. Michael Odero and Philomena Muthoni
			12.45 – 13.00 : Question and Answer

End of the two streams

13.00 - 14.00: LUNCH BREAK

DAY TWO(2) THURSDAY 26TH NOVEMBER 2020

TIME	SESSION TITLE	SESSION CHAIRPERSON	PAPER AND SUBJECT
14.00 – 15.00	KEY NOTE SPEAKERS	Session Chair Eng. Collins Juma, CE, FIEK, MBS	14.00 – 14.20: KEY NOTE PAPER 8 Eng. Martin Manuhwa, <i>FAEO President</i>
			14.20 – 14.40: KEY NOTE PAPER 9 Irrigation and sustainable land productivity in Kenya Eng. Wangai Ndirangu, <i>Chairman, KeNHA</i>
			14.40 – 15.00: IEK COVID- 19 CSR INITIATIVES Eng. Grace Kagondu

15.00 - 15:15 TEA BREAK

15.15 - 15:20 Break to two streams

STREAM 2: SHIMBA

15.20 – 17.10	SESSION 5 (FIVE): Sub-Theme 5: 4 th Industrial Revolution and Industry 4.0	SESSION 5 Session Chair Eng. Prof Alex Muumbo, PE, PhD, MIEK Assistant Chair Eng. Caren Oyola, PE, MIEK	15.20 – 15.45: Paper 31 Session 5(S2) – 5.1 Exploring Africa's Readiness for The Fourth Industrial Revolution Eng. Gilbert Tindivale Nduguyu <i>Kenya Pipeline Company Limited</i>
			15.45 – 16.10: Paper 32 Session 5(S2) – 5.2 Impact of COVID-19 on Industry 4.0 and Implications for Kenyan Manufacturing Eng. Jennifer A. Gache <i>EAC Regional Expert</i>
			16.10 – 16.35: Paper 33 Session 5(S2) – 5.3 Capacitive Sensing Car-Call in Elevators Wambua Sheila Mwongeli <i>Dedan Kimathi University of Technology</i>
			16.35 – 17.00: Paper 34 Session 5(S2) – 5.4 Design Consideration and Eco-Environmental Assessment for Electric Propulsion Ships: Case Study –Cruise Ship. Omar A. Abdulrehman Al-Baity ¹ . Ibrahim S. Seddiek ² . Mohamed M. ElGohary ³ . ¹ Department of Naval Architecture & Marine Engineering, Faculty of Engineering, Alexandria University, 21544 Alexandria, Egypt. ² PhD, Vice Dean for Postgraduate Studies & Scientific Research, College of Maritime Transport & Technology, Arab Academy for Science, Technology & Maritime Transport, Alexandria, Egypt, ³ Professor, Chairman, Department of Naval Architecture & Marine Engineering, Faculty of Engineering, Alexandria University, 21544 Alexandria, Egypt.
			17.00 – 17.30 : Question and Answer

End of the two streams

17.30 - 18:00 TEA BREAK

18.00 – 19.00		EAFEO Secretariat	EAFEO General Assembly
19.00 -	FREE TIME		

DAY 3

TIME	SESSION TITLE	SESSION CHAIRPERSON	PAPER AND SUBJECT
DAY THREE (3) FRIDAY 27th NOVEMBER 2020			
8.00 – 9.00	KEY NOTE SPEAKERS	Session Chair Eng. Godfrey Marambe, PE, MIEK	8.00 – 8.30: KEY NOTE PAPER 10 Unveiling the Engineers Identification Card, Eng. Nicholas Musuni, <i>EBK Registrar/CEO</i>
			8.30 – 9.00: KEY NOTE PAPER 11 Expanded Polystyrene (EPS) Technology Hon. Eng. Stephen Ngare– <i>Chairman</i> <i>National Housing Corporation</i>
9.00 – 9.30:	Panel Discussion	Moderator Eng. Grace Onyango PE, MIEK	Discussion on Post Covid-19 Impact on Energy, Transportation, Water, Manufacturing and the Way Forward Eng. Joseph Kamau, <i>Chief Manager, Water Works, Athi Water Works Development Agency</i> Eng. Isaac Kiva, <i>Secretary, Renewable Energy, Ministry of Energy</i> Eng. Samuel Ogege, <i>Deputy Director, Roads, KenHA</i>
9.30 – 9.55	SESSION 6 (SIX):	Session Chair Eng. Godfrey Marambe, PE, MIEK	9.30 – 9.55: Paper 35 Session 6 – 6.1 COVID19 crisis and engineering in Sub-Saharan Africa: what response and what is next? Olivia Geymond <i>Ecorys and Royal Academy of Engineering, UK</i>
			9.55 – 10.20: Paper 36 Session 6 – 6.2 Integration of P.V. floating with hydroelectric power plants Henry Mwangi Githinji <i>Jomo Kenyatta University of Agriculture and Technology</i>
			10.20 – 10.25: Question and Answer
10.25 – 10.40 TEA BREAK			
10.40 – 12.25	SESSION 7 (SEVEN): Students Presentations	STUDENTS PRESENTATIONS SESSION 7 Session Chair Eng. Godfrey Marambe, PE, MIEK Assistant Chair Eng. Doreen Kirima, PE, MIEK	10.40 – 10.55: Paper 37 Session 7 – 7.1 A Low-Cost Mechanical Ventilator with Remote Ventilation Capabilities Fidel Makatia Omusilibwa, Cynthia Ruguru Thuo, Allan Kipkurui Koech, Eric Odhiambo and Steve Kinaro Ogeto <i>Kenyatta University, Departments of Electrical and Electronics Engineering, Biomedical Engineering and Civil and Structural Engineering</i>
			10.55 – 11.10: Paper 38 Session 7 – 7.2 A vision for Africa: An Integration of Clean Environment and Clean Energy Maina Kelvin Muriuki, Maina Patrick Kinyua, <i>Consol Glass Limited and Coast Cable Limited</i>

DAY THREE (3) FRIDAY 27TH NOVEMBER 2020

TIME	SESSION TITLE	SESSION CHAIRPERSON	PAPER AND SUBJECT
			<p>11.10 – 11.25: Paper 39 Session 7 – 7.3 Better Approach to Marginalized Area Networks (B.A.T.M.A.N.) Lumumba Irvine, <i>Huawei Kenya</i></p> <p>11.25 – 11.40: Paper 40 Session 7 – 7.4 Runoff Estimation for Nzoia Basin Using Nasa’s Geos-5 Satellite Data Stephen Mureithi <i>Department of Civil and Structural Engineer; Moi University</i></p> <p>11.40 – 11.55 : Paper 41 Session 7 – 7.5 Application of Internet of Things in Improving Energy Efficiency and in Smart Grids Harriet Bosibori Ontiri and Victor Mungai Kamau <i>Department of Electrical and Electronics Engineering, University of Nairobi</i></p> <p>11.55 – 12.10: Paper 42 Session 7 – 7.6 Sustainable Transportation: Use of Intelligent Transport Systems Henry Mwangi Githinji, Mercy Akinyi Asuna <i>Jomo Kenyatta University of Agriculture and Technology</i></p> <p>12.10 – 12.25: Paper 43 Session 7 – 7.7 Engineering a Green Future Esther Nelima Simiyu, Rahab Wambui Njung’e, Fiona Atieno Ombima, Lydia Chepngeno Motwana, <i>Kenyatta University</i></p> <p>12.25 – 12.35: Question and Answer</p>
12.35 – 13.15	CLOSING CEREMONY	Eng.Margaret W.N. Ogai, CE, FIEK Hon. Secretary, IEK	<p>12.35 – 13.15: RESOLUTION Chief Repporteour: Prof.Eng Larry Gumbe Assistant: Patricia Onundo, <i>Technical University of Mombasa (TUM)</i> Address and to invite the Chief Guest Eng. Nathaniel Matalanga, CE, FIEK-President IEK 12.35 – 13.15: OFFICIAL CLOSING Chief Guest</p>
13.15 – 14.15 LUNCH			
14.15 – 16.00	VIRTUAL INDUSTRIAL VISIT	IEK SECRETARIAT	<ul style="list-style-type: none"> • Geothermal Development Company (GDC) • Konza Technology City (KONZA)
16.00 - 19.00	FREE TIME		
19.00 -	GALA NIGHT & AWARDS	IEK SECRETARIAT	