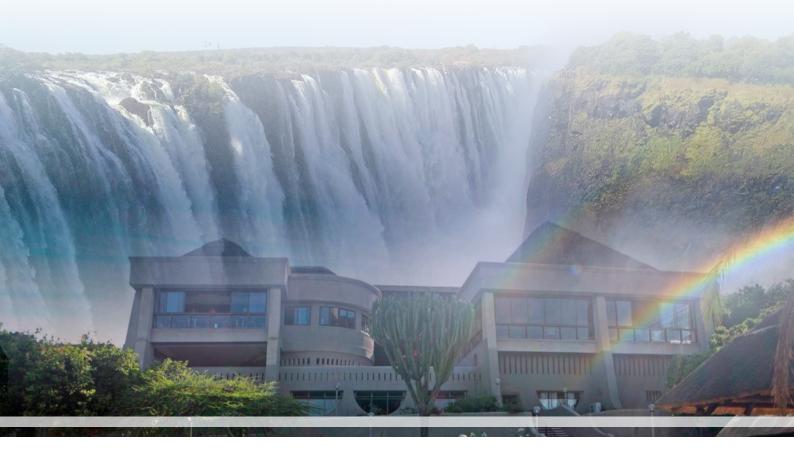


The **2022** Africa Asia Pacific Accord, WFEO-CECB Capacity Building in Engineering Education International Forum, and the **Zimbabwe Institution of Engineers**' Biennial Conference

In Partnership with **UNESCO**15 - 19 August 2022
Victoria Falls, Zimbabwe

Elephant Hills Resort Conference Centre











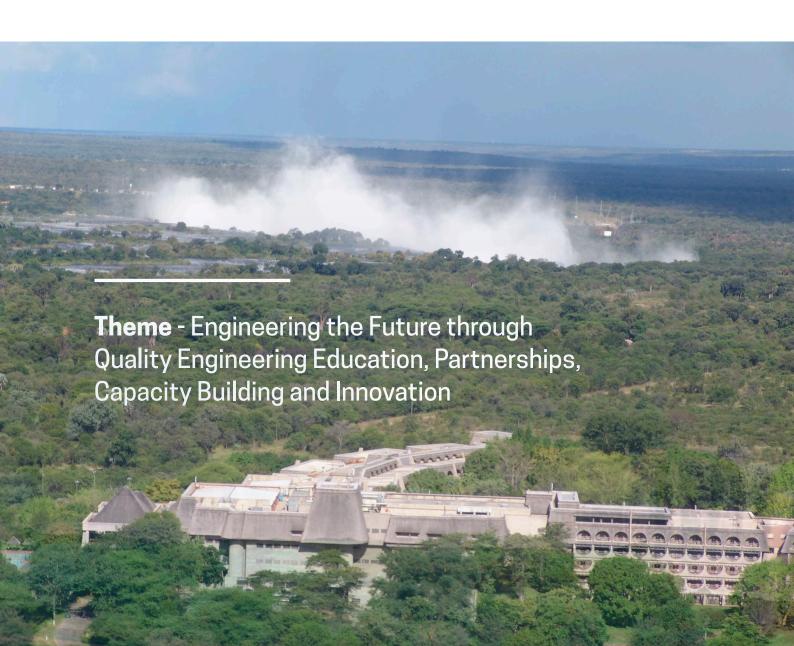
DEDICATION

The Conference is dedicated to all the Engineering Professionals who were promoted to glory during the turbulent COVID-19 pandemic era. We promise to run well the race they aborted. May their dear souls rest in eternal peace.

ABOUT THE VENUE

The Victoria Falls is one of the seven natural wonders of the world and a UNESCO Heritage Site. The Elephant Hills Hotel is the conference venue, and is situated 4kms from the Victoria Falls central business district, on a small hill. The hotel provides panoramic views of the Zambezi River and spray from the Victoria Falls.

This luxury hotel is decorated with an ethnic essence of Zimbabwe and even boasts an impressive miniature replica of The Victoria Falls in the middle. The Elephant Hills Hotel certainly does not lack entertainment with two swimming pools, tennis courts, squash courts and much more. The building with its thatched roof is an unmistakable landmark in the area and it blends well into the surroundings.





Monday, August	Monday, August 15, 2022		
1400-1800	ARRIVAL AND REGISTRATION		
1800-2000	WELCOME COCKTAIL HOSTED IN HONOUR OF OUR LOCAL AND INTERNATIONAL DELEGATES		
Tuesday, Augus	Tuesday, August 16, 2022		
0800-0830	REGISTRATION		
	FACILITATOR – Prof. D. J. Simbi – Conference Organising Committee Co-Chair and Vice Chancellor of Chinhoyi University of Technology.		
Rapporteur Gen and Technology.	Rapporteur General: Eng. Dr. W Goriwondo - Pro Vice Chancellor - National University of Science and Technology.		
0830- 0833	National Anthem		
0830 - 1100	AFRICA ASIA PACIFIC ACCORD, WFEO-CECB CAPACITY BUILDING IN ENGINEERING EDUCATION INTERNATIONAL FORUM AND ZIE BIENNIEL CONFERENCE CONFERENCE KICK-OFF SESSION SESSION CHAIRPERSON: Prof. D. J. Simbi		
	High Level Dialogue on Capacity Building in Engineering and Quality Education		
1	Exhibits Open & Robotics		

0835-0840 Welcome Remarks: His Worship S. Dhlamini, The Mayor of Victoria Falls Municipality	0833-0835	Opening Prayer: Dr. Eng. Ben Rafemoyo		
Manuhwa 0845-0850 Objectives of the Conference - Planning Committee Chair: Dr. Eng. Tammy Stevenson 0850-0900 Opening Remarks from the ECZ Chairman: Eng. Israel Rwodzi 0900-0910 Opening Remarks from the ZIE President: Eng. Thami Mpala 0910-0920 Keynote Address from the FEIAP President: Prof. Huang Wei (China) 0920-0940 Keynote Address from the WFEO President: Prof. José Vieira (Portugal) 0940-1000 Keynote Address from the AAP Chairperson: Ir. Academician Emeritus Prof Tan Sri Dato' Dr. Chuah Hean Teik. "Benchmarking of Engineering Education for Regional and International Mobility: A FEIAP Experience" 1000-1010 Address by Professor Martiale Zebaze-Kana, Senior Programme Specialist-Natural Science UNESCO Regional Office for Southern Africa. High Level Panel Dialogue and Discussion on Capacity Building in Engineering and Quality Education 1010-1100 Moderator - Prof. D. J. Simbi - Conference Organising Committee Co-Chair Panelists - Eng. Mustafa Shehu - WFEO President Elect - Eng. Dr. W. Ganda - Ministry of Higher and Tertiary Education, Innovation, Science and Technology Development (Zimbabwe). - Prof P. K Dzvimbo - Zimbabwe Council for Higher Education (ZIMCHE CEO) - Dr. Kwame Boakye - Ghana Institution of Engineering (GHIE) Past President. - Eng. Nathaniel Matalanga - IEK Past President and WFEO Executive Council Member (Kenya). - Dr. Eng. Sanzan Diarra - ZIE Chief Executive Officer Concluding remarks for the morning Plenary session and Vote of thanks: Eng. Papias Kazawadi - FAEO PRESIDENT ELECT	0835-0840	' ' '		
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1100 -				
		GROUP PHOTO AND COFFEE BREAK		

1130 - 1330	CAPACITY BUILDING AND ENGINEERING EDUCATION PLENARY SESSION 1 Chair: UNESCO ROSA (TBA)			
	Keynote Address: Transforming Engineering Education Capacity Building for Africa – From Strategy to Implementation. Speaker 1: Eng. Yashin Brijmohan (South Africa)			
	- FAEO CHAIR Standing Technical Committee in Engineering Education and AAP Co-Chair			
	"Achievement oriented engineering education professional certification" Speaker 2: Prof. Wang Xue – Tsinghua University P. R. China			
	"Setting up of FEAIP Graduate Engineering Personnel Registry"			
	Speaker 3: Ir. Dr. Tan Yean Chin, Secretary – The Federation of Engineering Institutions of Asia and the Pacific (FEAIP) & Past President, the Institution of Engineers, Malaysia.			
	Keynote Address - "The Role of Education in Creating a Global Engineer" Speaker 4: Mr. Damien Owen (Ireland) - Deputy Chair - International Engineering Alliance.			
	Keynote Address – Education of Professional Engineers and Engineering			
	Educators Speaker 5: Ir. Dr. Prof. Norlida Buniyami, IEM President – MALAYSIA			
1330 - 1430	LUNCH			
	PLENARY SESSION 2 Chair: Prof. D. Musademba (Dean CUT)			
	Rapporteur General: Dr. Eng. A. Mamuse (Dean MSU) Keynote Address - "The Future of Jobs for African Graduates in the Digital Age."			
	Speaker 1: Academician Dato`lr (Dr) Lee Yee Cheong – WFEO Past President			
14:30 - 17:30	Strategies for Engineering the future through Quality Engineering Education, Capacity Building, and the Development of Innovative Infrastructure: The Case of Global South Countries3			
	Speaker 2: - Eng. Ronald Robertson -Tarugarira			
	Speaker 3: Catching them Young through Sibo the Engineer - Michelle Maphosa			
	Engineering the alternative way: Locating the place of soft skills in the success of the engineering profession			
	Speaker 4: Marjorie Munyonga			
	Keynote Address "Roadmap for transforming Africa with focus on gender			

peaker 5: Eng. F. Mavhiya, Deputy President ZIE and Past Chairperson ECZ. Just 17, 2022 AFRICA ASIA PACIFIC ACCORD, WFEO-CECB CAPACITY BUILDING IN ENGINEERING EDUCATION INTERNATIONAL FORUM AND ZIE BIENNIAL CONFERENCE SECOND DAY PLENARY SESSION CHAIR: Prof Mercy Manyuchi - Chief Director - Ministry of Mines and Mining Development Rapporteur General: Eng. Dr. W Goriwondo - Pro Vice Chancellor - National University of Science and Technology Pening Prayer: Local Pastor ecap of Day 1 Activities: Engr. Ovens F. Ehimatie	
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Feedback on WFEO CECB Water Infrastructure Training and FAEO Capacity Building Initiatives—Eng. M. Manuhwa	
Keynote Address from the FAEO President: Ing. Carlien Bou Chedid	
Panel Discussion "Towards the Implementation of the SADC Engineering Needs and Numbers Study". Moderator - Prof. Martiale Zebaze Kana – UNESCO ROSA Panelists: Ms. Phathi Masimirembwa Ms. Anneline Morgan - SADC Secretariat Dr. Muchaneta Munamati – UNESCO Dr. Eng. T. Stevenson -ZIE Eng. Martin Manuhwa – WFEO CECB SA Department of Science & Innovation – TBA Eng. Yashin Brijmohan	
Panel Discussion on Engineering Regulation, Innovation, Capacity Building, and Infrastructure in the FAEO African Regions. Moderator - Prof. Hodson Makurira – Dean of the Faculty of the Built Environment – University of Zimbabwe Panelists - Eng. Collins Juma - East African Federation of Engineering Organisations (EAFEO) President (Kenya) - Eng. Linda Moseki – Southern African Federation of Engineering Organisations (SAFEO) President (Botswana) - Engr. Tasiu Sa'ad Gidari-Wadul – Nigerian Society of Engineers (NSE) President	
aifi o U ai Eil	

	- Ing Prof Rev Charles A	Adams – Ghana Institution of En	ngineering (GHiF) President
	 Ing. Prof Rev Charles Adams – Ghana Institution of Engineering (GHiE) President Eng. Erastus Mwongera – Engineers Board of Kenya (EBK) Chairman 		
	- Eng. Dr. Rafemoyo - ECZ CEO		
	Concluding remarks for the morning Plenary session and Vote of thanks: Ing. Alex Ayeh – President West African Federation of Engineering Organisations (WAFEO)		
1050-1110	Keynote Address by our Special Guest "Education 5.0. The Doctrine" Prof. dr. Amon Murwira – Minister of Higher and Tertiary Education, Science, Innovation and Technology Development		
1110 - 1130	GROUP PHOTO AND COFFEE BREAK		
FIRST BREAKA	WAY SESSION		
	PARALLEL TECHNICAL S		T
	Venue: KALUNDU	Venue: KALALA (Main	Venue: MATETSI
	Theme 1 – Engineering Diversity and	Room) Theme 2 - Capacity Building,	Theme 3 - UNESCO, ECZ, WFEO CECB Robotics
1130-1300	Inclusivity	Innovative Infrastructure	Boot Camp
	Chair: Dr. Eng. E. S.	Chair: Dr Eng. A. Mamuse -	FACILITATOR:
	Maputi – Engineering Dean (HIT)	Engineering Dean (MSU)	Dr Eng. T. Mushiri – Deputy Dean:
	Speaker 1:	Speaker 1:	Engineering and Built
	Zvikomborero Hweju	Engr. Nnadikwe Johnson	Environment (UZ)
	Engineering Education for the	(Nigeria).	
	Accomplishment of	Engineering Capacity Building in Developing Countries	
	Sustainable	in beveloping dountines	
	Development Goals		
	Speaker 2: Engr.	Speaker 2:	
	Unyime Enobong	Ivy Getanda (Kenya)	High School Robotics
	Okure & Engr. Ovens	Optimization of Career	Bootcamp
	Enimatie Festus - Engineering Institution-	Bootcamps as A Capacity Building Effort for	
	Industry Partnerships a	Engineering Students and	
	Panacea for Quality	Graduate Engineers	
	Engineering Education		

	Speaker 3: Aldridge Takura Nyamowa - Inclusivity and sustainability: a perspective of young people	Speaker 3: Eng. Mary Nyaradzayi Chikuruwo, et al Development of a Computerised Maintenance Management System (CMMS) Learning Tool: Case Study for Harare Institute of Technology	
	Speaker 4: Hagreaves Kumba (SA)		
	Review on how to bridge the gap between Engineering Education and Industrialisation for Sustainable Development in Zimbabwe		
13:00	LUNCH		
SECOND BRE	EAKAWAY SESSION		
14:00 - P	PARALLEL TECHNICAL SESS	BIONS	
16:30 V	<mark>/enue: KALUNDU</mark> heme 1 – Capacity Building	Venue: KALALA (Main Room) Theme 2. Innovative Infrastructure	Venue: MATETSI Theme 3 – UNESCO, ECZ, WFEO-CECB Robotics Boot Camp
(V	Chair : Engr. Aishatu Umar WCCE & NSE NIGERIA)	Chair: Eng. Margret Ogai (EBK-KENYA)	FACILITATOR: Dr. Tawanda Mushiri – UZ Deputy Dean - Built Environment
(I B t	Speaker 1: Ben Edenseting Nigeria) Bioethanol Production hrough Simultaneous Baccharification and	Speaker 1: Engr. Unyime Enobong 0. (Niger) Novel Algorithm for Enhancing Power	High School Robotics Bootcamp

	Fermentation Process	Transformer Protection Sensitivity	
	Speaker 2: Engr. Ibe Raymond Obinna (Nigeria) Implications of Engineering Education & Capacity Building in Africa	Speaker 2: Eng. Mary Chikuruwo The Ergonomic Impact on General Complications on Tractor Drivers in Zimbabwe	
	Speaker 3: Engr. Nnadikwe Johnson (Nigeria) Design Method of Engineering Education Standard Assurance in African Educational Field	Speaker 3: Engr. Unyime Enobong O. (Niger) Achieving Sustainability in Robotics through Eliminating the Skill Gap in Academia and Industry	
1630- 1700	NETWORKING & VISIT OF EXHIBITION STANDS		
Thursday	y, August 18, 2022		
OFFICIAL	OFFICIAL OPENING DAY PLENARY SESSIONS - KALALA MAIN CONFERENCE ROOM		
		emonies – Mavimba Mapuranga	
08:30	PER PRESENTATIONS :30 Prayer - Local Pastor		
08:35	Official Opening Address by: ECZ Chairman – Eng. Israel Rwodzi		
09:00	ZIE President – Eng. Thami Mpala Keynote Opening Address by the UNESCO DIRECTOR GENERAL – Prof Lidia Arthur Brito, UNESCO Regional Director for Southern Africa		
09:20	Keynote Opening Address from WFEO VP &CECB Chair: Eng. Martin Manuhwa. "Digital Transformation through Engineering Capacity Building and Quality Education for New National Development Models: A Disruptive New World Order in Zimbabwe and Africa's Favour".		
09:40	Keynote Opening Address from: Eng. Joy Pedzisayi Makumbe (Zim); "A Review of the Role Played by Sustainable Infrastructure in Zimbabwean Cities: A Focus on the Contributions to the Economic Growth of the Country."		
10:00	INTERACTIVE TEA BREAK (Gu	uest of Honour Debriefing)	

OFFICIAL	OFFICIAL OPENING		
10:30	National Anthem		
10:35	Introduction of the Guest of Honour: TBA		
10:40	SPEECH by the Guest of Honour: His Excellency, President Dr. E. D. Mnangagwa		
11:15	Gift Presentation & Group Photo		
11:30	Keynote Address from the Engineering Council of South Africa (ECSA) President – Eng. Refilwe Buthelezi - Building and Regulating Engineering Capacity in South Africa.		
11:50	Engineering Education: A case of Zimbabwe: Dr. Eng. Stevenson		
12:10	Internet of Things (IoTs) and Road Safety: Challenges and Opportunities for Africa- Cliford Gobo - Acting Managing Director: Traffic Safety Council of Zimbabwe		
12:30	Keynote Address by WFEO President Elect Engr Mustafa Shehu – Vision and Roadmap for Africa Engineering for the Decade of Action and the Africa We Want.		
12:50	CORPORATE MARKETING INTERFACE, DISCUSSION, CONFERENCE RESOLUTIONS AND WRAP-UP		
13:35	Vote of Thanks: Eng. Farai Mavhiya – ZIE Deputy President		
13:40	LUNCH, NETWORKING & VISIT OF EXHIBITION STANDS		
16:00	SUNSET BOAT CRUISE AND TECHNICAL TOURS AND OTHER ACTIVITIES		
19:00	CLOSING CEREMONY, GALA DINNER & RECEPTION (FORMAL DRESS)		
22:00	END OF CONFERENCE		
Friday, August 19, 2022			
GOLF DAY AND DEPARTURE FOR NON-GOLFER / EXCURSION (optional) TOUR ZIMBABWE AND VICTORIA FALLS!			



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