

Webinar
hosted by



COMMITTEE ON WOMEN IN ENGINEERING

THEME

Resilient Women, Resilient World



1ST SEPT, 2023



3:00PM (WAT)
4:00PM (CEST)
10:00PM(MYT)



shorturl.at/mBCFR



Prof. Dr. José Manuel Pereira Vieira
President, World Federation Engineering Organization (WFEO)
Opening Remarks



Engr. Mustafa B. Shehu
President-Elect, World Federation Engineering Organization (WFEO)
Closing Remarks



Engr. Yetunde Holloway
Chair, Women In Engineering World Federation Engineering Organization (WIE-WFEO)
Host & Co-Moderator

SUSTAINABLE DEVELOPMENT GOALS



SDG 2- Zero Hunger SDG 3- Health SDG 4-Education SDG 5-Gender Equality SDG 6-Water and Sanitation
SDG 7-Energy, SDG 9 Industry,Innovation and Infrastructure SGD 13 Climate SDG11- Cities

THEME

As we enter the last quarter of 2023, we are virtually 6 years away from the deadline of the 2030 Agenda and if the SDGs are to be achieved and to be truly sustainable, with no one being left behind, the implementation must be owned by local actors in every part of the globe. Therefore, our chosen speakers who are from diverse backgrounds, from different parts of the world, will speak to the theme-Resilient Women, Resilient World through the highlighted SDGs and interrogate their progress. This webinar will stimulate a review on the progress in different parts of the world and further promote knowledge thus catalyze further action.

By addressing these interconnected SDGs along with Resilience of Women, we aim to achieve holistic development and promote the creation of sustainable communities. The Women in Engineering prioritizes the well-being of individuals especially females, fosters equity, and environmental stewardship. The discourse therefore highlights the fact that women play a crucial role in driving progress towards achieving each of those goals.

The theme of the webinar contemplates a resilient world which can only be achieved by the integration of the SDG's with the resilient woman of any color, race, tribe or social strata being the mainstay of such a world. The speakers will discuss how resilient women are instrumental in driving progress across various SDGs as well as their contributions in hunger reduction, health, education, gender equality, water and sanitation, energy, climate change, industry and infrastructure and cities

EXPECTED OUTCOMES

The World Federation of Engineering Organisations-Women in Engineering Committee, in partnership with INWES and ICSI and various Country Engineering institutions across the world, through collaborative discussions proposes that an integrated approach will accelerate achievement of the sustainable development goals. (SDGs)

Resilient Women are vital for achieving sustainable development and creating a more equitable and resilient world for all. The emphasis will be that empowering and supporting women is crucial for realizing the full potential of the SDGs and building a sustainable future. By recognizing and empowering Resilient Women, we can accelerate progress towards achieving all the SDGs

The webinar also celebrates and disseminates examples of SDG implementation in action, with a focus on the Role of Women and Resilience (both personal and societal).

PARTNERS



SPEAKERS



Richard Coackley
CBE BSc CEng FICE
CWEM FCIWEM

TOPIC

**“What the World is missing:
The most Resilient but hidden
potential.”**



IR Prof. Dr. Wai Yie Leong
Fellow IEM , Fellow IET, CEng, PEng,
SMIEEE, MIEM, H.MAFEO, APEC/IntPE

TOPIC

**“Women Engineers in
Industrial Revolution 5.0”**



Engr. Yetunde Mariam Aladeitan
Phd ,FNSE, FNSChE

TOPIC

**“Green Innovators: Women
Pioneering Sustainable
Energy Technologies”**



Cillia Molomo-Mphephu
Pr Tech Eng, BTech (Mech Eng),
MBA, MSAIMechE, MSAIIE, MSAAMA

TOPIC

**“Closing the Innovation Gap in
Infrastructure Management:
The underrated role of
women”**



Eng. Ania Lopez
Rap. Consiglio Nazionale degli
Ingegneri (ITALIA),
Exco World Federation
Engineering Organization (WFEO)

TOPIC

**“A more resilient world
through female engineering”**



Savina Carluccio
Executive Director at International
Coalition for Sustainable Infrastructure

TOPIC

**“Women taking action on
infrastructure resilience”**



SUSTAINABLE DEVELOPMENT GOALS



Richard Coackley

CBE BSc CEng FICE CWEM FCIWEM

Richard's professional background as a chartered Civil Engineer is in water engineering and power. He has worked in both consulting and contracting engineering businesses as a Companies House Director. He has been involved in major infrastructure works in Europe, the Middle East, Pakistan and Asia in water supply, sanitation, maritime, major hydropower and nuclear decommissioning.

Richard is a Past President of the Institution of Civil Engineers (2011-12), Honorary Life President of the European Council of Civil Engineers and a Smeatonian. He is immediate past chair of the UK Reservoirs Committee and UK representative at the World Federation of Engineering Organisations, part of UNESCO. Richard is keenly interested in the professional development of engineers of all ages and longterm International relationships and the delivery of the United Nations Sustainable development Goals (SDG's). He is keen to enthuse young engineers and broaden their skills, while retaining independence of thought in the logic and art of civil engineering. Richard was awarded CBE for services to civil engineering in 2014.



Ania Lopez

Rap. Consiglio Nazionale degli Ingegneri (ITALIA) Exco World Federation Engineering Organization (WFEO)

PhD candidate in Industrial and Management Engineering at the "Antonio Ruberti" Department of Computer, Control and Management Engineering, Sapienza University of Rome, with research activities in the field of Agricultural Production and Renewable Energies. She has a double degree in Mechanical Engineering in Cuba and in Italy, with specialization in Energy. He has over 20 years of experience as an engineer in public and private works in large infrastructure including the Construction, HVAC, Healthcare and Electrical sectors.

She is a consultant as Project Manager for Energy Engineer for the European project "Next Generation EU" in the authorization procedures of all the Renewable Energy Plants of the Lazio Region. Since 2006 I have been registered in the National Professional Register (Colleges of Engineers of the Province of Viterbo). From 2011 to 2022 member of the National Council of Engineers CNI (Ministry of Justice) and of the Foundation Council of the National Council of Engineers, first woman in the history of Italian engineering to be a member of the Executive Council of the CNI, creator of the project "Ingenio al Femile", for the enhancement of the Figure of the Engineer.

Since 2013 CNI Delegate for the World Federation Engineering Organization and active member in the Women and Energy Permanent Technical Committee, international participation in the World Engineers Conferences and Forums with presentation of technical papers regarding Agenda 20230. Since 2019 Member of the Board of Directors of the WFEO (UNESCO) Since 2020 Chairman of the WFEO Awards Committee and member of the Support Committee and Working Group Reviews. Since 2022 you have been the FAO project coordinator for the WFEO.

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Wai Yie Leong

Fellow IEM , Fellow IET, CEng, PEng, SMIEEE, MIEM, H.MAFEO, APEC/IntPE

Received her Ph.D. in Electrical Engineering and bachelor's degree (Hons I) in Electrical Engineering from The University of Queensland (UQ), Brisbane, Australia in 2005 and 2000 respectively. She has authored 10 book series that highlight the innovation in Electronics and Biomedical Engineering. Wai Yie is currently the Immediate Past Chairperson of The Institution of Engineering and Technology (IET Malaysia Local Network), IET United Kingdom Council Member, the Vice President of the Institution of Engineers Malaysia (IEM) 2020/2022 and Vice President of International Network of Women Engineers and Scientists (INWES) 2020/2023, and World Federation of Engineering Organisation (Women in Engineering Committee).

She specialises in medical signal processing and telecommunications research. She has been researching IR4.0, wireless sensor networks, ultra-wideband and wireless communications, and Brain Signal Processing for signal conditioning and classification in various EEG-based mental tasks. She has developed a gait analysis system and upper limb tracking system. The novel bio-informatics technique has been commercialized and licensed to healthcare companies to extract important features of biomedical signals. Her research works have contributed to cultural enrichment, quality of life, health, and well-being and enhanced the biomedical research capacity, knowledge, and skills of businesses and organisations. The research project has also contributed toward the wealth creation growth of biomedical companies, business revenue, and innovative capacity. She has been successfully attracting R&D investment from businesses.

Wai Yie has been awarded the Private Education Excellence Awards 2022 'Special Recognition – National Unity Award' under the University category, 2022 Laureate of the WFEO Women in Engineering Award, First Runner Up of the 2021 UN Women Malaysia WEPs Awards in the Leadership Commitment, IEM Women Engineer of the Year 2018, IEM Presidential of Excellence Award 2016 & 2015, INTI Outstanding Alumni Award for Academic Excellence 2016, She is specialized in medical signal processing and telecommunications and has received the Ten Outstanding Young Malaysian 2017, Top Research Scientists Malaysia 2017, ASEAN Meritorious Service Award 2017, IEM Best Paper Award 2015, MRRI2013 Best Paper Award 2013, Richard Jago Research Prize in 2004 and Trailblazer Innovation Award in 2005, in Australia. Wai Yie has been actively involved in Women In Technology (Brisbane) and has received the Smart-State- Smart-Women Award presented by Queensland Government, Australia, in 2005.

Wai Yie has been the National and International Academic Accreditation Panel for more than 20 universities. She has over 10 years of research and industry experience in Australia, Singapore, the United Kingdom, and Malaysia, with a special interest in biomedical signal & image processing, smart control, telecommunications, and wireless sensor networks. She was also the 2013 Young Scientist (by the Academy of Sciences Malaysia) and has been elected as the Chair of the International Networking Group of Young Scientists Network-Academy of Sciences Malaysia (YSN-ASM). She has been representing women engineers at meetings and discussions at United Nations.

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Yetunde Mariam Aladeitan

Phd ,FNSE, FNSChE

Yetunde holds a Bachelor's Degree in Chemical Engineering from the prestigious Obafemi Awolowo University Ile-Ife, in 2001 and a Master of Science degree in Oil and Gas Engineering from the Robert Gordon University, Aberdeen, Scotland. She worked briefly at Amazon Energy Limited (an oil and gas servicing firm based in Lagos) between 2006 and 2007. She joined the Faculty of Engineering, University of Abuja in 2008 as a lecturer in the Department of Chemical Engineering. Dr Aladeitan obtained a Ph.D. in Petroleum Engineering from the African University of Science and Technology, Abuja. Aladeitan is a member of the Nigerian Society of Engineers, Society of Petroleum Engineers, Nigerian Society of Chemical Engineers, Society of Women Engineers, Association of Professional Women Engineers.

Dr. Aladeitan is registered with the Council for the Regulation of Engineering in Nigeria (COREN) . She is a fellow of the Nigerian Society of Engineers and the Nigeria Society of Chemical Engineers. She is an ardent STEM advocate for young girls (APWEN) where she has also served in various capacities at the National and Branch levels. She was the Technical Secretary of APWEN Abuja Chapter from 2015–2017 and is currently the National Technical Secretary for APWEN. She is happily married to Dr. Olanrewaju Aladeitan and they are blessed with two Children.



Cillia Molomo-Mphephu

Pr Tech Eng, BTech (Mech Eng), MBA, MSAIMechE, MSAIIE, MSAAMA

Ms Cillia Molomo-Mphephu is an engineering and management professional registered with Engineering Council of South Africa (ECSA). In addition to her Engineering qualifications, Ms Molomo-Mphephu also holds Business qualifications. She is currently a Director at Centre of Engineering Excellence (Pty) Ltd, the company that she founded earlier in 2020. She previously held various positions in the engineering industry within Armscor, City of Cape Town, Sasol, Department of Correctional Services and Denel.

Ms Molomo-Mphephu is just few months shy of 30 years' experience in the Engineering profession and has built a wealth of experience especially in the subject of Engineering Asset Management. She has authored a number of publications on the subject, and is currently focused on positioning her Company to be a game changer in the Engineering Asset Management space.

Additional to her ECSA registration, Ms Molomo-Mphephu is a member and Vice President of the South African Institution of Mechanical Engineering (SAIMechE). She is also a member of the South African Asset Management Association (SAAMA), the organisation through which she participated in World Partners in Asset Management (WPiAM). She is also a member of the Retail Motor Industry (RMI) federation, Motor Industry Bargaining Council (MiBCO) and Motor Industry Staff Association (MISA) through her Company.

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Savina Carluccio

Executive Director at International Coalition for Sustainable Infrastructure

Savina is the Executive Director of the International Coalition for Sustainable Infrastructure (ICSI) and a fervent advocate of the role of civil engineers in tackling our society's biggest challenges. She is an experienced Civil Engineer and infrastructure practitioner with almost two decades of experience advising government, infrastructure owners and operators, multi-lateral development banks and NGOs to develop and implement inclusive, sustainable and resilient infrastructure that is fit for the future. Prior to taking her role at ICSI, she worked as an Associate Director and infrastructure advisor at Arup and she was the Head of Guidance and Standards at the Resilience Shift. She also serves a member of Institution of Civil Engineers' Advisory Board on sustainable and resilient infrastructure.

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MODERATORS



Enyonam Kpekpena

*FGhiE, PMP, Deputy Chair, Women in Engineering Committee
World Federation Engineering Organization (WIE-WFEO)*

Ing. Dr. Enyonam Kpekpena is the Manager Information and Communications Technology (ICT) Projects Delivery & Programme Management Office (PMO) Lead at the Electricity Company of Ghana Ltd. From an early age, a heightened sense of discipline, responsibility, confidence, open-mindedness and a focus on achieving results, she has worked in various leadership roles.

Ing Dr. Mrs. Enyonam Kpekpena is a fellow of the Ghana Institution of Engineering (GHIE), the current President of Women in Engineering (WinE), Ghana, a founding president of ECG-WinE Chapter, and a member of the Project Management Institute (PMI), Ghana and USA. She is currently the Deputy Vice-Chair for Female Retention and Leadership in Engineering theme 2 for the Women in Engineering (WIE) Committee, World federation of Engineering Organizations (WIE-WFEO). She also serves as the Deputy Chair-1 for WIE, federation of African Engineering Organizations (WIE-FAEO). She serves on the Nominations Committee of PMI Ghana and is a council member of GHIE. She has worked in ECG for over 16 years and is currently the Manager/ IT Project Delivery and the PMO Lead.

Ing Dr. Mrs. Enyonam Kpekpena obtained her bachelor's degree in Electrical and Electronic Engineering from the Kwame Nkrumah University of Science and Technology in 2000, where she specialized in telecommunications and computers. She discovered her love for academia and obtained a Master of Science Degree in Management with specialization in Information Technology (IT) and Project Management from 2003 to 2004 at Colorado Technical University, USA, and followed it up with a Doctorate Degree in Management from the same university, with a concentration in Project Management from 2014 to 2017. Her research interests include IT Project Management, Project Performance Management, and Earned Value Management. Her pursuit of excellence has led her to undertake certifications including Project Management Professional (PMP), IT Service Management (ITIL Foundation) Expert, and IT Security (Certified Ethical Hacker) Expert.

Enyonam's life experiences have taught her that everything is achievable with dedication, persistence, hard work and commitment. Her aspiration is to become a seasoned consultant in Program Management to be able to successfully deliver innovative products to transform her nation. To this end, she continues to encourage, counsel, mentor and guide not only male and female students, but young professionals in their careers, and to this, Ing. Dr. Enyonam KPEKPENA is dedicated.

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Yetunde Holloway

BSc, MSc, ACI Arb, FNSE

Yetunde Holloway is presently the Chair of the Women in Engineering Committee of the World Federation of Engineering Organizations (WFEO), promotes Equity, Diversity and Inclusion (EDI) in the engineering space. As Chair of WIE of WFEO and FAEO, Yetunde's role has included facilitating various events to promote interests of women, especially female engineers, and to highlight their vital roles in achieving the SDGs. She is keenly interested in the development of Strategic Engineering Indicators, as well as the achievement of the Sustainable Development Goals, with particular emphasis on Goal 5. As a STEAM advocate, she initiated the Virtual STEAM ART competition for African girls aged 5-11 (and now boys) across the African Continent. The competition also seeks to engage young minds imaginatively, to address climate change issues, as well as other problems in African communities. It also highpoints the unique collaboration between creativity, innovation and technical expertise. She mentors several young and aspiring engineers and particularly encourages professional development of female in STEM

Engr. Holloway represents WFEO on the board of the International Coalition for Sustainable Infrastructure (ICSI). Yetunde is particularly interested in Climate Change issues and believes that "The future of planet Earth can only exist within the precepts of equitable, resilient and sustainable infrastructure, which caters to all, regardless of, race, education, ethnicity, gender, occupation, social status, social strata or creed" Yetunde is a Civil Engineer from the University of Lagos, Nigeria. She an Associate of Chartered Arbitrators (UK), ACI Arb and works as an executive board member of the Special Committee for Rehabilitation of Public Schools (SCRPS) in Lagos State, a policy implementation agency of the Lagos State Government, dedicated to improving infrastructure in public schools in the State. The team has increased the number of classrooms by an estimated 10-15%, in the last 3.5 years. Newer and modern schools have also been constructed in various hitherto underserved communities in Lagos.

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