



Empowering Women in STEM is Essential for Achieving the UNSDGs

Saturday, March 20, 2021

9:00 – 11:00 am EST



Welcome



Moderator – Gail Mattson, PE, CHMM, PMP

Environmental Engineer; BS, Chemistry & Biology; MSE, Environmental Engineering; currently ES&H Specialist for the US Dept of Energy; FY01 President of Society of Women Engineers; and Immediate Past President INWES

The International Network for Women Engineers and Scientists (INWES), the World Federation of Engineering Organizations (WFEO) and the International Science Council (ISC) together represent women in science, technology, engineering, and math (STEM) across 100 nations.



International Network of Women Engineers & Scientists (INWES)

- **A global network of organizations of women in Science, Technology, Engineering and Mathematics (STEM), with Organizational Members, University Members, Individual Members, and Corporate Partners all together representing over 250,000 women from 60 countries worldwide**
- **Official NGO partner of the operational type with UNESCO**
- **Granted Economic and Social Council status to the UN**

“To build a better future worldwide through full and effective participation of women and girls in all aspects of STEM”



World Federation of Engineering Organisations (WFEO)

- **The peak international body for professional engineering institutions**
- **Founded in 1968, under the auspices of UNESCO**
- **100+ national professional engineering institutions, 12 international and continental/regional professional engineering institutions, representing 30 million engineers**
- **Co-Chair - Major Science and Technology Group at UN, Representation at major UN Organisations, Associate of UNESCO**



The International Science Council (ISC)

- **A non-governmental organization with a unique global membership that brings together 40 international scientific Unions and Associations and over 140 national and regional scientific organizations including Academies and Research Councils.**
- **Co-Chair - Major Science and Technology Group at UN, Associate of UNESCO**



Topics for today

Why it is important to empower women to take part in all areas of STEM? Gender equality is essential for business growth, for innovation, for the knowledge economy, and for achieving the UN Sustainable Development Goals.

Our talks will cover the diversity imperative; the gender gap in mathematical, computing and natural sciences; developing capacities in Africa; and leadership.



Agenda

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|----------------------|--|
| 9:00 - 9:10 | Session Instructions, Introductions & Opening Remark |
| 9:10 - 9:25 | “The Diversity Imperative for more Women in STEM” |
| 9:25 - 9:30 | 5 minutes Q&A |
| 9:30 - 9:45 | “The Global Approach to the Gender Gap in Mathematical, Computing and Natural Sciences” |
| 9:45 - 9:50 | 5 minutes Q&A |
| 9:50 - 10:05 | “Developing Capacities of Women in STEM in Africa” |
| 10:05 - 10:10 | 5 minutes Q&A |
| 10:10 - 10:25 | “Leadership and Women in STEM” |
| 10:25 - 10:30 | 5 minutes Q&A |
| 10:30 - 10:45 | 15 minutes Moderated Discussion |



Your Involvement

- You are encouraged to bring your questions, your experiences, your ideas to share.
- Please introduce yourself and provide contact information in the Chat function.
- Please respond to the questions in our poll on the page for this session announcement in the CSW65 Virtual Forum.
- Session is also being live-streamed on You Tube.



Your Involvement

The screenshot shows a web browser window displaying a virtual forum page. The browser's address bar shows the URL: `ngocsw65forum.us2.pathable.com/meetings/virtual/9W5572YqnsBjAtGnE`. The page features a dark blue navigation bar with the following menu items: Home, Schedule, People, Partners, Public Forum, Interactive Handbook, Exhibit Hall, Artisan Fair, Register, and Account. Below the navigation bar, there are buttons for 'BACK TO AGENDA', 'NOTES', and 'MANAGE'. The main content area is titled 'PARALLEL EVENT' and features the headline: 'Empowering Women in STEM is essential for achieving the UNSDGs'. Below the headline, there are four speaker profiles: Sarah MC Peers (Project Coordinator), Marlene Kanga (Immediate Past President), Yetunde Holloway, GAIL MATTSON, PE, CHMM, PMP (Past President, 2021-2023), and Jo Ivey Boufford. A timer indicates the meeting has not started yet, showing 0 days, 17 hours, 18 minutes, and 37 seconds. A chat window is open, displaying a poll question: 'Do you wish to explore possible future collaborations? If YES, please provide here the organisation, contact name and email address.' Below the question is a button labeled 'CLICK TO ADD YOUR DETAILS SO WE CAN LINK WITH YOU'. Another poll question is visible: 'What actions and programs exist that ensure women scientists and engineers can take part fully in achieving the SDGs?' with a button labeled 'CLICK HERE TO ANSWER'. The page also includes a 'Sponsoring Organization' section listing INWES, World Federation of Engineering Organisations, and International Science Council. The bottom of the page shows a partial view of a globe.



Q&A Sessions

During the session, please use the Chat box to submit your questions.

Will address a few questions after each talk.

Then address the remaining questions at the end of the session and later will upload responses on www.wfeo.org, www.inmwes.org and www.councilscience.org.



Dr. Marlene Kanga

A Chartered Chemical Engineer, an Honorary Fellow of the Institution of Engineers Australia, and a Fellow of the Academy of Technology Science and Engineering (Australia).

Board member of AirServices Australia, Sydney Water Corporation, and an advisor to Innovation Australia and Chair of the R&D Incentives Committee.

President of Engineers Australia from 2013-2014, served as Vice President of INWES from 2014-2017, and is Immediate Past President of the WFEO.

“The Diversity Imperative for more Women in STEM”



The Diversity Imperative for more Women in STEM

Switch to Marlene's Slides



The Diversity Imperative for more Women in STEM

Questions for Dr. Kanga?



Jo Ivey Boufford, M.D.

Clinical Professor of Global Health at the New York University School of Global Public Health and Clinical Professor of Pediatrics at NYU School of Medicine.

Served as Principal Deputy Assistant Secretary for Health in the U.S. Department of Health and Human Services (HHS) where she served as the U.S. representative on the Executive Board of the World Health Organization.

President Emeritus of The New York Academy of Medicine and was Chair of the Board of the International Society for Urban Health.

**“ The Global Approach to the Gender Gap in
Mathematical, Computing and Natural
Sciences”**



The Global Approach to the Gender Gap in Mathematical, Computing and Natural Sciences

Switch to Jo's Slides



The Global Approach to the Gender Gap in Mathematical, Computing and Natural Sciences

Questions for Dr. Bouffourd?



Engr. Yetunde Holloway

BS and MSE in Civil Engineering; Registered Engineer, Fellow of the Nigerian Society of Engineers, and Member of Nigerian Institution of Civil Engineers.

Appointed as Executive Director with the Special Committee for Rehabilitation of Public Schools in Lagos State. Previously worked with Lagos State Development and Property Corporation.

Chair of the Nigerian Society of Engineers, Lagos Branch, and currently Chair of Committee for Women in Engineering, World Federation of Engineering Organisations.

“Developing Capacities of Women in STEM in Africa”



Developing Capacities of Women in STEM in Africa

Switch to Yetunde's Slides



Developing Capacities of Women in STEM in Africa

Questions for Engr. Holloway?



Dr. Sarah Peers



PhD mathematics and specialized in the application of artificial intelligence for maintenance of mechanical engineering structures.

Currently an Advisor and a Fellow of the Institute of Innovation & Knowledge Exchange in the UK, and Director at the STEM Foundation in the UK.

Consultancy Peers&Peers provides expertise in skills strategy and policy development for innovation, STEM education and diversity for the engineering and tech sectors.

Deputy President 2018-2020 INWES, currently Project Coordinator for INWES

“Leadership and Women in STEM”



Leadership and Women in STEM

Switch to Sarah's Slides



Leadership and Women in STEM

Questions for Dr. Peers?



Moderated Discussion

Please use the Chat function at the bottom of the screen to submit your questions.

Questions for Discussion:

- **What actions and programs exist that ensure women scientists and engineers can take part fully in achieving the SDGs?**
- **Should the focus be on women becoming agents of change or on agents of change being gender-inclusive? (Or in other words: do we empower women or fix the system?)**
- **How can gender and STEM organizations better collaborate to meet the 2030 SDGs?**



Thank You for joining us today!

If you have additional questions, comments or suggestions, please submit these through our poll on the page for this session announcement in the CSW65 Virtual Forum that is active until March 26.