



World Federation of Engineering Organizations
Fédération Mondiale des Organisations d'Ingénieurs



WFEO Committee on
Young Engineers / Future Leaders



HIGH-LEVEL POLITICAL FORUM
ON SUSTAINABLE DEVELOPMENT

United Nations HLPF 2021 Side Event - Webinar

Deploying Global Youth Capacity in UN Policy and Engineering for SDG 13

9 July 2021

1:00 - 2:30 PM ET New York / 7:00 - 8:30 PM CET Paris

Register Here: <https://bit.ly/2Ualsad>

Live Streaming: <https://bit.ly/3yyVa1c>



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Deploying Global Youth Capacity in UN Policy and Engineering for SDG 13

9 July 2021

World Federation of Engineering Organizations (WFEO)

Young Engineers / Future Leaders Committee

The crises of climate breakdown are the most serious issues of our time. Our major infrastructure systems of transport, energy, water, waste, telecommunications and flood defenses play a major part, accounting for a vast portion of energy-related carbon dioxide (CO₂) emissions whilst also having a significant impact on our natural habitats.

WFEO continues to raise awareness of the climate emergency and the urgent need for action amongst WFEO National Member Engineering Organizations and WFEO Partners, all stakeholders within the National Members and with Governments.

The event aims for an engineering community where a diverse and inclusive membership can work collaboratively towards innovative climate mitigation strategies, engaging women and young engineers in particular to combat climate change.

To register for this important event, please click on the following link: <https://bit.ly/2Ualsad>

If the virtual room is full, you can follow the event live in the WFEO Youtube channel at <https://bit.ly/3yyVa1c>

The WFEO Committee on Engineering and the Environment Climate Action Stories are available at <https://bit.ly/3h9o9TB>



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Program

- Opening

Gong Ke: WFEO President

Shamila Nair-Bedouelle: Assistant Director-General for Natural Sciences of UNESCO

- Presentations

Firas Bou Diab: Chair, WFEO Young Engineers / Future Leaders Committee
YEFL Global Initiatives and Activities - Working Group on SDG13

Nisreen Elsaïm: UN Secretary General's Youth Advisor on Climate Change (YAG)
Relevant initiatives in infrastructure and STEM skills for SDG 13

Manon Frezouls: Focal Point for the Youth UNESCO Climate Action Network (YoU-CAN)
Engaging young engineers in the development of the Youth UNESCO Climate Action Network (YoU-CAN)

Videos - Winners of WFEO Young Engineers / Future Leaders Video Campaign at World Engineering Day 2021

Sara Nyberg: Representative Lead for Young Leaders in Energy and Sustainability (YES Europe)
Youth engagement in technology in the UNFCCC and in the energy-climate nexus

Emma Van Fossen: Product Engineer at Trane Technologies
The Role of Industry in Pursuing Climate Action

Milda Pladaite: Member, WFEO Young Engineers / Future Leaders Committee
YEFL Global Initiatives and Activities - Working Group on SDG13 (continued)

- Q & A

- Conclusions and Recommendations

José Vieira: WFEO President Elect



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Bios of the speakers

Prof. Dr. GONG Ke has been working in the field of telecommunication and electronic engineering. From 2013 to 2017, he was appointed by Ban Ki-moon to the Scientific Advisory Board of the Secretary-General of the United Nations. He served as the President of Tianjin University from 2006 to 2011. He carried on as the President of Nankai University in 2011 and stepped down in 2018.

He is the President of WFEO since the General Assembly in Melbourne in November 2019.



Shamila Nair-Bedouelle holds a PhD in Life Sciences from the University of Capetown in South Africa. She pursued her research career at the Institut Pasteur in Paris then within the pharmaceutical industry at the MIT University Park in Boston, USA. She has pursued her research interests in parallel to her career at the United Nations.

Shamila Nair-Bedouelle is the Assistant Director-General for Natural Sciences of UNESCO.



Firas Bou Diab is a Project Manager and a Senior Transportation Engineer at a world-leading planning and design consultancy. He has a considerable and diversified experience in many areas of transportation and infrastructure. He holds a Master of Civil Engineering from the American University of Beirut.

Firas Bou Diab is the Chair of the Young Engineers / Future Leaders committee at the World Federation of Engineering Organizations.





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Nisreen Elsaim is an environmental and climate activist, started activism in 2012, with a Bachelor's degree in physics from the University of Khartoum, Sudan. She pursued her master's degree in renewable energy from the same University.

General coordinator for Youth and Environment - Sudan (YES) platform to give all environment working youth the networking they need.



Manon Frezouls is a consultant at UNESCO, where she coordinates the Youth UNESCO Climate Action Network (YoU-CAN) project both with the Natural Sciences and the Social and Human Sciences Sectors.

As part of the Youth Programme since 2019, and as a member of the UNESCO Climate Change Task Force, she works, through the implementation of the YoU-CAN project, on developing meaningful engagement and leadership of youth in climate projects and activities undertaken in UNESCO's areas of competence.



Sara Nyberg is a consultant at the company South Pole with greenhouse gas accounting. She graduated in environmental and energy engineering. She has participated at the UN climate conferences since 2017 through her organisation PUSH Sweden, and is active in YOUNGO, the platform that works with the UN Major Group for Children and Youth to coordinate youth climate action.

She is the Country Representative Lead for YES Europe (Young Leaders in Energy and Sustainability).





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Emma Van Fossen is an engineer in the Accelerated Development Program at Trane Technologies and has led decarbonization projects to reduce both external and internal greenhouse gas emissions through new technology and renewable energy investments.

She holds a mechanical engineering degree from California State University, Fresno.



Milda Pladaite is a civil engineers and Institution of Civil Engineers (UK) representative to the WFEO Young Engineers / Future Leaders Committee.

She is a member of WFEO Action Group on COP 26 where she set-up a working group on SDG 13 to include the global young engineers community to the WFEO climate emergency work.



Prof. Dr. José Vieira is a civil engineer with extensive experience in engineering education, research and management. He is Full Professor at University of Minho, Portugal, where he served as Vice Rector (1998-2002). He served as the President of the European Federation of National Engineering Associations (FEANI) from 2014 to 2020 and as the National Vice President of the Portuguese Association of Engineers from 2010 to 2016.

He is the President-Elect of WFEO since the General Assembly in Melbourne in November 2019.

