

THIRD WEBINAR UNDR SERIES "ENGINEERING THE FUTURE"

YOUNG ENGINEERS VOLUNTEERING FOR THE FUTURE



The World Federation of Engineering Organizations (WFEO)
Young Engineers/Future Leaders Committee

DECEMBER 8
8:30am CET
6:30pm AEDT
Duration: 1 hour

Moderator:
Nicole Brown
WFEO YE/FL member

Is pleased to invite you to the webinar series, "Engineering the Future"
Young Engineers Volunteering for the Future

Panelists:

- Felicity Furey
Founder - Power of Engineering and Machinam
- Morgan Marshall
CEO - Robogals Global
- Fons Janssen
Co-founder Green Deal 4 Youth
- Firas Bou Diab
Chair of WFEO YE/FL Committee



ACTIVITIES OF THE COMMITTEE ON YOUNG ENGINEERS / FUTURE LEADERS

Firas Bou Diab, Chair YE/FL

May 7, 2021 – WFEO Committee Chairs Meeting



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



Engineers have a unique skill-set which can be valuable in a range of different areas. This session shared the experiences of young engineers who are committed to volunteering in their local communities and around the world to inspire the next generation and share their engineering expertise to make a difference. Panelists shared background and their volunteering experiences.

COLLABORATION WITH EUROPEAN YOUNG ENGINEERS (EYE)

WATER REUSE FOR A SUSTAINABLE INDUSTRY - CHALLENGES AND OPPORTUNITIES IN A CIRCULAR ECONOMY

This session defined the barriers existing between politics, industry, and academia in regards to the promotion of water reuse in industry, to create a sound cohesion between the technical and natural world. The webinar promoted SDG 6 and young engineers.



WORLD ENGINEERING DAY (WED) 2021

YOUNG ENGINEERS LEADING THE WAY: VIDEO CAMPAIGN

In celebration of the World Engineering Day (WED) 2021, the Young Engineers / Future Leaders Committee (YE/FL) and the Engineering for Innovative Technologies Committee (CEIT) of the World Federation of Engineering Organizations (WFEO) invited young engineers from around the World to submit a video to showcase contributions that young engineers are making towards a more sustainable, resilient, and inclusive world. **More than 40 young engineers from more than 20 countries**, including many from the leading engineering universities of the world, showcased their videos that highlighted the important role that young engineers play towards accelerating action towards sustainable development. All videos answered one of the following three questions:

1. What is the importance of engineering in working towards a more sustainable world?
2. What advice do you have for young engineers interested in making a positive impact in their community?
3. Share an example of how young engineers are already contributing to sustainable development.

Winner of #YoungEngineers Leading the Way: Video Campaign competition is:

Roshan TEELUCK, from The Institution of Engineers Mauritius (IEM) <https://fb.watch/44LLZOfVB2/>

Runner up: Ludvig Vraadal from Association of Nordic Engineers, ANE. <https://fb.watch/44LNZLQWJP/>

WORLD ENGINEERING DAY – ENGINEERING FOR A HEALTHY PLANET: CELEBRATING THE UNESCO ENGINEERING REPORT

WORLD ENGINEERING DAY – YOUNG ENGINEERS PANEL DISCUSSION AT THE MAIN EVENT





Under the High Patronage of
Mr Emmanuel MACRON
President of the French Republic



AGENDA - WED 2021
Engineering for a Healthy Planet -
Celebrating the UNESCO Engineering Report

4 March 2021

1:00-2:30pm CET (Paris time, online)

Registration: <http://on.unesco.org/Eng04-03>

Master of Ceremonies: Shamila Nair-Bedouelle, ADG/SC

13:00-13:40

High-level Opening and Launch of Report

- o Audrey Azoulay, Director-General of UNESCO
 - o Li Xiaohong, President of Chinese Academy of Engineering (representing Tsinghua University and ICEE)
 - o Genna Rajam Bangaroo, Civil Engineering Student, University of Mauritius, Mauritius
- Joint launch of the report by DG UNESCO and President CAE**

13:40 - 14:00

Introduction to the Report on Engineering for Sustainable Development: Delivering on the Sustainable Development Goals

- o Wu Qidi, Director of ICEE and Co-chair of Engineering Report Steering committee - Introduction of the Report
- o Marlene Kanga, Immediate Past President, WFEO - Engineering to advance the UN Sustainable Development Goals
- o Gong Ke, President, WFEO - Engineering Innovations responding to pressing Challenges
- o José Vieira, President Elect, WFEO - Engineering education and capacity-building

14:00 - 14:25

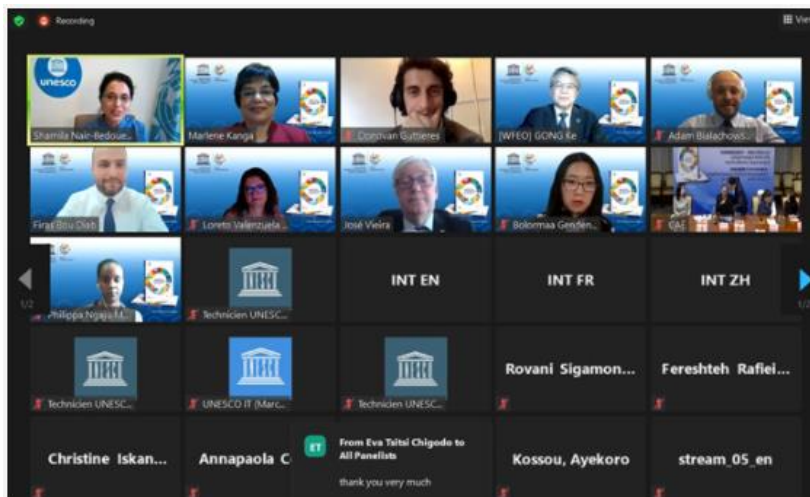
Round-table on the Engineering Report

- Moderator:** Donovan Gutierrez, former Chair UN Major Group Children and Youth, MIT, engineer (USA)
- o Firas Bou Diab, Chair, WFEO Young Engineers/Future Leaders (Lebanon)
 - o Adam Bialachowski, Chair, International Federation of Consulting Engineers (FIDIC) Young Leaders Council (Poland)
 - o Loreto Valenzuela Roediger, International Federation of Engineering Education Societies (IFEES), Associate Professor, Catholic University Chile, (Chile)
 - o Philippa Ngaju Makobore, IEEE, Head, Instrumentation Division, Uganda Industrial Research Institute (Uganda)
 - o Bolormaa Gendsuren, International Network for Women Engineers and Scientists (INWES), School of Chemical Engineering, University of Ulsan (South Korea)

14:25 - 14:30

Closing Remarks

Shamila Nair-Bedouelle, ADG/SC



Screenshot of speakers at the UNESCO-WFEO launch of the Second UNESCO Engineering Report, **4th March 2021**



IEM COMMEMORATIVE JOURNAL

ENGINEERING THE FUTURE OF MAURITIUS & THE WORLD - 4TH MARCH 2021

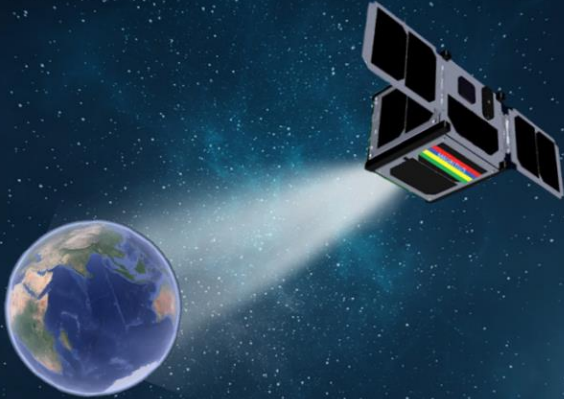


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ENGINEERING THE FUTURE OF MAURITIUS & THE WORLD



Thursday 04th March 2021



**WORLD
ENGINEERING
DAY**
FOR SUSTAINABLE
DEVELOPMENT



Institution of Engineers Mauritius

World Engineering Day for Sustainable Development

The Next-Generation Mauritius: Smart, Resilient & Sustainable

Firas BOU DIAB



FIRAS BOU DIAB - LEBANON

*Firas BOU DIAB
Senior Transportation Engineer,
Chair, Young Engineers / Future Leaders Committee at
the World Federation of Engineering Organizations
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Introduction

Mauritius celebrated its 50 years of independence two years ago. It has been more than fifty years of nation building premised on the core values of good governance, rule of law, and also upholding human rights, and territorial integrity. Implementation of the Sustainable Development Goals (SDGs) is key to Mauritius future development. The Country moved from being a low income with the target of reaching a high-income country notwithstanding its inherent vulnerabilities as a Small Island Developing State devoid of natural resources, subjected to the oppression of distance, natural disasters and the effects of climate change and highly vulnerable to external shocks. It has simultaneously invested in its welfare system spanning free education, health care, universal old age pension and other measures aimed at providing a minimum social protection to citizens.

Since the 1990s, countries have invested in information and communication technology and infrastructure renovations to create smart, machine-to-machine interactions aimed at achieving cost savings and improving efficiency, governance and transparency within their communities. The smart city concept initially meant at dealing with numerous urban problems, in specific, those related to the urban environment and infrastructure. As it developed, the concept is now broadly used to

quicken the process of urban management by using IT technology with the availability of big data. ICT and modern technology are considered the key aspect of the smart city concept. The developing world is in a motivating position to help lead the way forward as new models are defined and shaped. Phrases such as climate proofing, empowerment, disaster planning and recovery, information access, resiliency, social equality, sustainability, technology justice and urban competitiveness are finding their way into today's language.

The Country as a complex system should have the ability to be resilient, especially when technology fails either due to technical or natural disasters. This article aims to redefine the smart country concept in the context of planning using a resilience approach. Factors of resilience will lead to a soft infrastructure approach, such as enhancement in many aspects, e.g., knowledge inclusion, participation, social innovation, and social equity.

Small Island Developing States

The concept of sustainability is very important in Small Island Developing States (SIDS) and this was primary recognized at the Earth Summit in 1992. The vulnerabilities of SIDS arise from a number of physical, socio-economic and

✚ FOURTH WEBINAR UNDR SERIES "ENGINEERING THE FUTURE"

YOUNG ENGINEERS = BOARD MEMBERS

One of the challenges facing young engineers is having a “seat at the table” and understanding how organizations and companies operate. This discussion provided young engineers insights and a starting point to understanding company structure, in particular the role of the board and how young engineers can get involved.

The poster is for a webinar titled "Young Engineers = Board Members?" organized by The World Federation of Engineering Organizations (WFEO) Young Engineers/Future Leaders Committee. It is dated March 17, 8:00pm CET, with a 1-hour duration. The poster lists five speakers: Nicole Brown (Moderator, WFEO YEF member), Avi Menon (Co-founder & Partner, Kolich), Mavis Elias (Founder & Chair of the Board, EM Foundation), Ted Chen (Co-founder, Evermann Singapore), and Stacey Daniel (Director, Advisor & Coach, Board Presence). A QR code and a registration link (bit.ly/3ru9JjH) are also provided. At the bottom right, there are icons for "4 QUALITY EDUCATION" and "8 DECENT WORK AND ECONOMIC GROWTH".

✚ COLLABORATION WITH FIDIC FUTURE LEADERS

FIDIC Future Leaders is the group of young professionals of the International Federation of Consulting Engineers (FIDIC). Participation in the Future Leaders Management Certificate (FLMC) programme to strengthen the business expertise of young engineers and other professionals working in the field of consulting engineering. It also offers networking opportunities and an insight into FIDIC global activities

