



ACTIVITIES OF THE COMMITTEE ON YOUNG ENGINEERS / FUTURE LEADERS

Firas Bou Diab, Chair YE/FL

October 30, 2020 – WFEO Executive Council Meeting

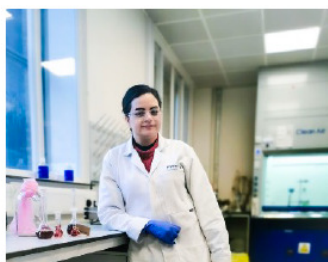
THE FIRST WORLD ENGINEERING DAY, MARCH 4 2020

2020 YOUNG ENGINEERS COMPETITION ON SDGS

Young Engineers Competition on SDGs

World Federation of Engineering Organisations' Young Engineers/Future leaders Committee collaborated with IChemE (UK), FIDIC, Young Engineers Europe and students from Nankai University, to run a competition for early-career engineers from around the world. The goal of the competition was to highlight the work of young engineers and their engineering achievements in advancing the UN Sustainable Development Goals.

More than **400 young engineers** from more than **70 countries**, including some from the leading engineering universities of the world, showcased their projects to advance sustainable development through engineering.



Aida Rafat

Winner of Young Engineers Competition:
Ms. Aida Rafata, Imperial College London UK
SDG 12: Reducing textile waste and reducing pollution from textile dyeing technologies.

There are 16 Highly Commended Entries focused on different SDGs from around the world.



<https://www.wfeo.org/awards/>

WED 2020 MINI- SERIES AND YE/FL INVOLVEMENT

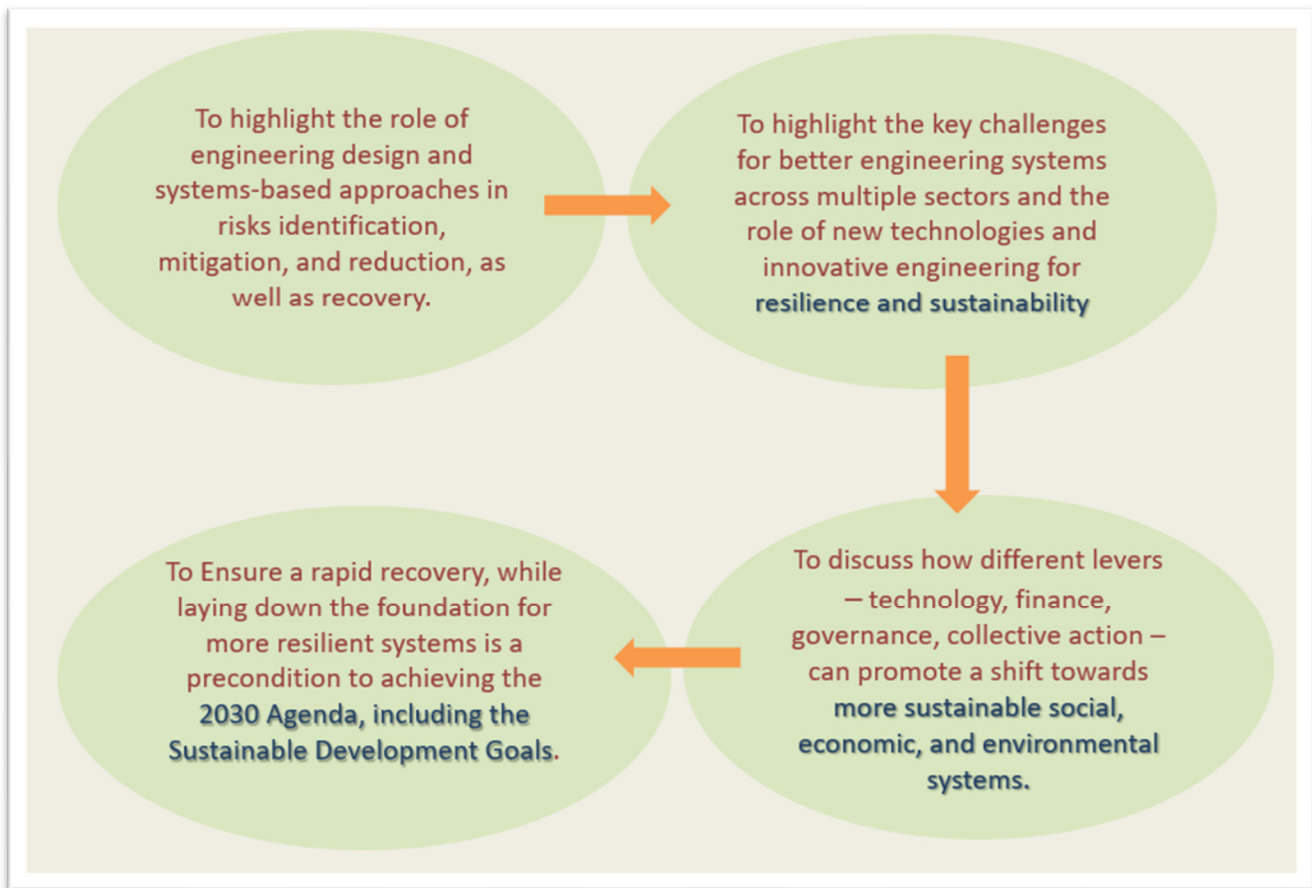
WED 2020 Mini-Series

Engineering Heroes, with the support of the World Federation of Engineering Organisations, launched 17 mini-episodes of Podcasts. Each episode was aimed at helping the audience understand how engineers are perfectly placed, and already working, within each of the United Nations Sustainable Development Goals. More than **4,000 audiences** from more than **70 countries** listened to Podcast Episodes, each rated in the top 20% to top 50% of podcasts worldwide. The report "WFE0 Podcast for WED 2020" is available [in this page](#).



<https://www.wfeo.org/podcast-engineering-leaders-sdg-8-firas-bou-diab>

YE/FL WEBINAR SERIES “ENGINEERING THE FUTURE”





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



WFEO-YEFL

WEDNESDAY
22
JULY
8:00PM - 5:00PM
CET VIA ZOOM

ENGINEERING THE FUTURE

RESILIENCE AND SUSTAINABILITY FOR YOUNG ENGINEERS

MODERATOR:



Firas Bou Diab
Chair, Young Engineers / Future Leaders Committee - WFEO

SPEAKERS:



Prof. GONG Ke
President of WFEO



Matthew Baldwin
Deputy Director-General for Mobility and Transport, European Commission

Register <https://bit.ly/38ZJklg>

2
CLIMATE ACTION

3
INDUSTRIAL INNOVATION AND INFRASTRUCTURE

4
QUALITY INFRASTRUCTURE

7
AFFORDABLE AND CLEAN ENERGY

8
DECENT WORK AND ECONOMIC GROWTH

9
INDUSTRIAL INNOVATION AND INFRASTRUCTURE

11
SUSTAINABLE CITIES AND COMMUNITIES

12
RESPONSIBLE CONSUMPTION AND PRODUCTION

13
CLIMATE ACTION

17
PARTNERSHIPS FOR THE GOALS



MONDAY
12th OCTOBER
14:00-16:00
(CET)

Webinar Series “Engineering the Future”

—CLIMATE ACTION



YOUNG ENGINEERS
FUTURE LEADERS

Speakers:



Dr. Marlene Kanga
Immediate Past President, WFEO



Davide Stronati
Chair of WFEO Committee on Engineering and the Environment



Bert D'Hooghe
Policy Director at the European Round Table for Industry (ERTI)

Moderator:



Milda Pladiute
WFEO YE/FL member



Sara Nyberg
Junior Consultant Corporate Sustainability (at South Pole)
- YOUNGO (UNFCCC) Representative



Vane Aminga
Research Assistant, SIPRI



Firas Bou Diab
Chair of WFEO YE/FL Committee

Register: <https://bit.ly/3mQKPG>

INVOLVEMENT WITH OTHER STCS / PICS

2020 UN/WFEO YOUTH CREATIVITY FOR SUSTAINABLE TRANSPORT

Involvement with Committee on Engineering for Innovative Technologies



The United Nations Department of Economic and Social Affairs (UNDESA), in collaboration with WFEO, launched a call for innovations on January 7, 2020, inviting young innovators from around the globe to submit their creativity for sustainable transport.

With the newest innovation being submitted on March 21, the **2020 UN/WFEO Call for Innovation - Youth Creativity for Sustainable Transport** has received 7 submissions from 6 countries of Kenya, Lebanon, Malaysia, Zimbabwe, China, and Nigeria.

Submissions were reviewed by an expert team led by **Prof. Jianping Wu** (Director of Tsinghua-Cambridge-MIT Centre for Future Transport) as the chair, and **Firas Bou Diab** (Transport Expert - Chair of YE/FL) as the vice chair.

Given the current concerns regarding coronavirus disease (COVID-19), it has been decided that the Second United Nations Global Sustainable Transport Conference will be postponed. Accordingly, the deadline of this Call for Innovations will be extended, and the submission will remain open. Please stay tuned for future announcements.

YE/FL IN 23RD CHINA BEIJING INTERNATIONAL HIGH-TECH EXPO

Involvement with Committee on Engineering for Innovative Technologies



CEIT and YE/FL organized a webinar “A Sustainable Future: Young Engineers and the Fourth Industrial Revolution (4IR)” on the 18th September 2020, during the 23rd China Beijing International High-Tech Expo (CHITEC)

Webinar highlighted on the below:

- Technological Innovations done by Young Engineers to promote the SDGs
- Necessary knowledge and skills for young engineers in the context of 4IR and the SDGs
- COVID-19 impact: How are Young Engineers around the world are making a difference?

COLLABORATION WITH UN MAJOR GROUP FOR CHILDREN AND YOUTH (UNMGCY)

Youth Science–Policy Interface Platform: A global network of young people at the intersection of science (including engineering), technology, policy, & diplomacy

Capacity Building

Capacity building for youth to effectively engage in science-policy and SETI, as it relates to the implementation, monitoring, and review of sustainable development frameworks

- Workshops at the Annual ST&I Forum for SDGs and High Level Political Forum
- Online community and resource sharing



Knowledge

Generate with and share knowledge from various formal, traditional, and non-formal SETI knowledge systems (e.g. science-policy publications)

- Collaboration with the Journal of Science Policy & Governance on a publication “implications of emerging technologies on sustainable development and inequalities
- Host webinars (e.g., HLPF), conduct surveys, engage members in consultations



unmgcy.org
@UNMGCY
spiteam@unmgcy.org



Children and Youth
the space for children and youth in the United Nations



Advancing the dialogues on issues related to 1) science for policy, 2) policy for science, ST&I as a ‘means of implementation’, and data

- Engage in various ST&I-related fora, dialogues (e.g., Digital Cooperation Summit at the UNGA, Expert Group Meeting on Digital Technologies, etc.)
- Develop position papers/statements

Youth actions leveraging SETI to support sustainable development efforts, in particular the Sustainable Development Goals, including through open science

- COVID-19 Youth Action Platform (examples of 250+ youth-led initiatives)
- SDG 7 (sustainable energy) Action Hub – portal of youth-led innovations

POTENTIAL COLLABORATION WITH FIDIC FUTURE LEADERS



FIDIC Future Leaders is the group of young professionals of the International Federation of Consulting Engineers (FIDIC). As a leadership committee, the Future Leaders Committee (FLC) was formed to develop communication and networking opportunities for all FLs involved in the FIDIC community.

Future Leaders Management Certificate (FLMC)

The focus of this FIDIC programme is 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

MOU WITH EUROPEAN YOUNG ENGINEERS (EYE)



EYE represent the voice of 350,000 young engineers

Initiated discussions on Memorandum of Understanding or Collaboration

with

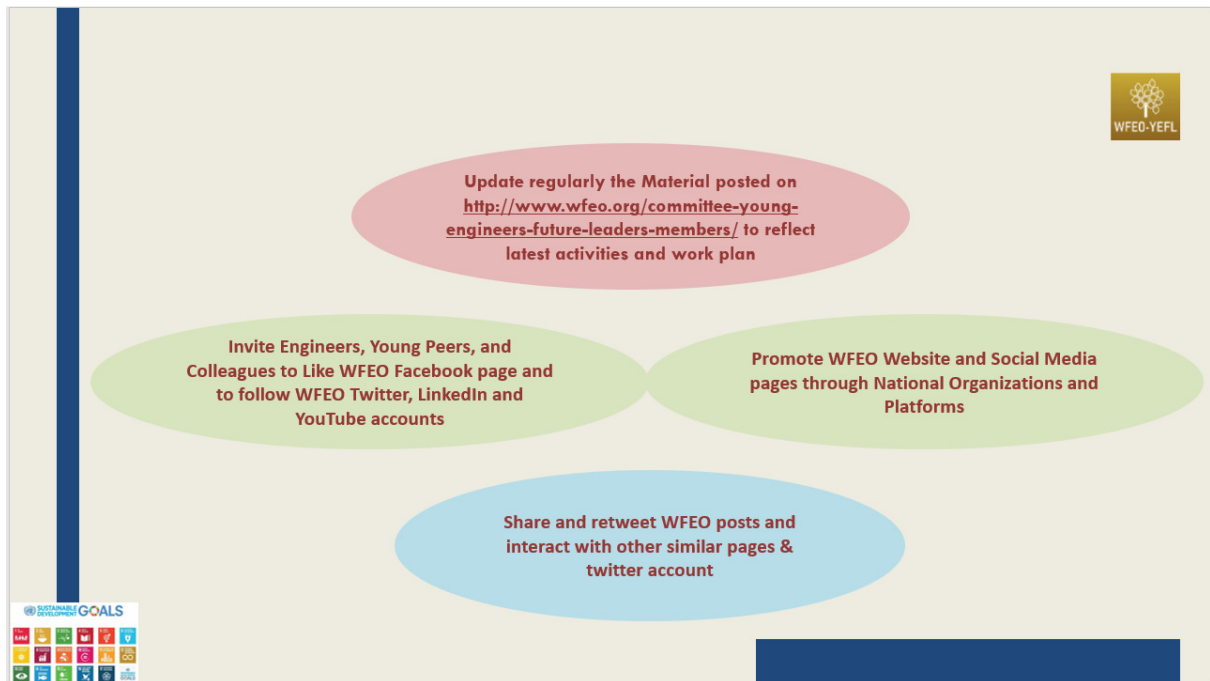
Objectives

- ✓ Extend WFEO and YE/FL visibility through EYE Network
- ✓ Share knowledge
- ✓ Collaborate on events for prompting SDGs
- ✓ Contribute to Public Policy working groups

YE/FL INVOLVEMENT IN THE WORLD ENGINEERING EDUCATION FORUM AND THE GLOBAL ENGINEERING DEANS COUNCIL (WEEF/GEDC)



CONTRIBUTION TO WFEO WEBSITE AND WFEO SOCIAL MEDIA (FACEBOOK, TWITTER, YOUTUBE, LINKEDIN)



REGIONAL UPDATES



Regional Updates

IESF - France	<u>Milène Guermont</u>
China Association for Science and Technology (CAST)	Zhang Wei
The Ghana Institution Of Engineering (GHIE)	<u>Kwaku Duah</u>
Hong Kong Institution of Engineers (HKIE)	Tak Tang
Federation of Myanmar Engineering Societies	<u>Khin Maung Myint</u>
Ethiopian Association of Civil Engineers (EACE)	<u>Brook Legesse</u>
Engineers Australia (EA)	Nicole Brown
Federation of Lebanese Engineers (FLE)	Firas Bou Diab



All committee materials, meetings minutes, presentations, webinars recordings and regional updates are available here:

<http://www.wfeo.org/committee-young-engineers-future-leaders/>