

WFEO YOUNG ENGINEERS / FUTURE LEADERS COMMITTEE (YEFL)

The YEFL committee comprises a dedicated group of young engineers who willingly strive to establish YEFL as the foremost global authority representing the voices of young professionals in the engineering field. The YEFL's endeavors revolve around fostering a sustainable ecosystem, valuable resources, and an influential platform for young engineers within the WFEO community. By emphasizing the vital contribution of young engineers worldwide towards realizing the United Nations' Sustainable Development Goals, the YEFL aims to promote their recognition and success.



Firas N Bou Diab

Chair, WFEO-YEFL Committee

Federation of Lebanese Engineers (FLE)

MAIN THEMES COVERED IN THE PAST Two YEARS: (2021-2023)

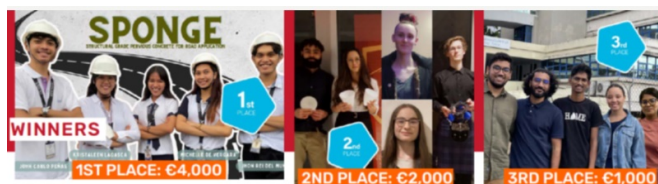
"Engineering the Cities of the Future", Madrid

On **March 2, 2023**, the Chair of YEFL participated in a roundtable discussion titled "Mobility and Communications: Challenges of a Sustainable Urban Environment" at the "Engineering the Cities of the Future" conference in Madrid. During the event, the Chair also delivered a talk on "Roads Design Fundamentals for Traffic Safety". The round table discussion focused on the pressing challenges of creating sustainable urban environments, particularly in terms of mobility and communication. The Chair shared insights and perspectives on the topic, emphasizing the importance of integrating innovative engineering solutions to ensure a safe and efficient transportation system. The presentation on roads design fundamentals provided valuable insights on enhancing traffic safety in urban areas. The participation of the YEFL Chair contributed to the conference's goal of exploring ways to engineer the cities of the future with a focus on sustainability and urban development.



2023 Global Hackathon for Engineering Students

YEFL participated successfully in organizing a Global Hackathon for engineering students as part of the celebrations for WED 2023. The Hackathon focused on young engineers and students from around the world, allowing them to participate in the festivities. Over 1000 pre-event registrations were received, with 429 students forming 112 teams from 23 countries. The competition revolved around three UN SDGs: **Zero Hunger, Good Health and Wellbeing, and Clean Water and Sanitation**. The winners of the Hackathon presented innovative solutions related to these challenges.



YEFL and Partners celebrated WED 2023

Aligned with 2023 theme: *Engineering Innovation for a more Resilient World* and as part of the WED Celebrations, YEFL committee organized a webinar on **24 Feb 2023** titled: [Smart Sustainable Communities And Frontier Technologies](#), in collaboration with **FIDIC, UITP and SPEED**. Frontier technologies have enabled cities to reimagine the way they manage urban complexities and infrastructure, from enhancing cities' responsiveness, optimizing energy efficiency to improving access to public services. With proper guidance, frontier technologies can make cities smarter and more sustainable, and provide the opportunity for leapfrogging, accelerating the global progress towards the new urban agenda and the sustainable development goals.



WFEU-UNESCO Joint Meeting for Member States – The strategic role of engineering for accelerating the delivery of the 2030 Agenda

The Chair of the YEFL Committee actively took part in an event held at UNESCO Headquarters in Paris on **October 27, 2022**. The event showcased the collaborative efforts between UNESCO and WFEU in addressing the (SDGs) through engineering capacity building and education. By working together, the Sector for Natural Sciences and WFEU demonstrated how sectors, Member States, and NGOs in official relations can collaborate towards shared objectives for the greater good. The event underscored the importance of engineering in regional and national contexts, emphasizing its role in fostering inclusive and responsible communities. Firas Bou Diab's involvement in the event highlighted the YEFL Committee's dedication to involving young engineers in driving sustainable development. Under the moderation of WFEU President José Vieira, the YEFL Chair delivered a presentation titled "[Young Engineers Initiatives on SDG13](#)". This presentation shared valuable insights and initiatives aimed at mobilizing young engineers to contribute to the progress of this particular goal.



YEFL in the WED 2022 Hackathon

Embracing the 2022 theme of **"Build Back Wiser – Engineering the Future"**, the WED Hackathon fostered teamwork among engineering students as they tackled a pressing global issue. This competition simulated a real-world project, challenging teams to collaborate and produce tangible results within a tight timeframe. Notable partners, including the International Engineering Alliance, the International Federation of Engineering Education Societies, the Global Engineering Deans Council, and Engineers Without Borders-International, supported the event. The Chair of YEFL and committee members took an active role in the Hackathon working group, participating in preparatory meetings. Additionally, committee members played a crucial role in the preliminary judging process, while the YEFL Chair served as one of the Finalist Judges for the Hackathon.



WFEQ World Engineering Day 2022 Global Hackathon Winners: Team WONDERPETS,
Reaner Jacqueline Bool, Ghia Luwalhati and Nicole Elizabeth Tan Batangas State University, the Philippines. Photo Source: Team members



YEFL and Partners celebrated World Engineering Day 2022

In line with the 2022 theme, "Build Back Wiser – Engineering the Future" and as part of the WED celebrations, a captivating panel titled "An Inspiring and Collective Young Engineering Vision". The panel consisted of distinguished leaders hailing from various geographical regions, who were nominated by esteemed organizations such as the Federation of International Consulting Associations (FIDIC) Young Leaders Council, European Young Engineers (EYE), and The Student Platform for Engineering Education Development (SPEED).

This diverse lineup of panelists aimed to present their perspectives and provide an inspiring, united vision of the crucial role young engineers play in shaping a sustainable future through engineering.

TUESDAY 15th FEB 2022 13:00-14:30 (CET)

World Engineering Day 2022
Build Back Wiser – Engineering the Future
Inspiring and Collective Young Engineering Vision

Speakers:

- Moderator:** Christopher Chukwunta, Vice President of the International Renewable Energy Systems Inc. (Nigeria)
- Firas Bou Diab**, Chair WFEQ Young Engineers/Future Leaders Committee (Lebanon)
- Nadja Yang**, President, European Young Engineers (EYE) (Germany)
- Rodrigo Ju ó rez**, Vice-Chair of the FIDIC Future Leaders Council - International Federation of Consulting Engineers (M é xico)
- Maria Laura Polo Gonzalez**, Vice-President of Educational Content and President Elect, The Student Platform for Engineering Education Development (SPEED) (USA)

Logos: WFEQ, EYE, SPEED, FIDIC, and the 17 Sustainable Development Goals.

Register: <https://bit.ly/3H5F2JK>

YEFL Webinar Series "Engineering the Future"

YEFL Webinar Series "Engineering the Future" holds immense significance in the current context, where engineering plays a vital role in designing resilient and sustainable societies. The webinar series aims to shed light on the crucial role of engineering design and systems-based approaches in identifying, mitigating, and reducing risks, as well as facilitating recovery. It serves as a platform to discuss key challenges that need to be addressed and explore opportunities for enhancing engineering systems across multiple sectors.

Moreover, the sessions will delve into the various levers that can drive the shift towards more sustainable social, economic, and environmental systems. These levers include technology, finance, governance, and collective action, which collectively

contribute to the transformation of our societies. By fostering dialogue and knowledge sharing, the YEFL Webinar Series "Engineering the Future" contributes to advancing the field of engineering, promoting sustainable development, and creating a platform for collaboration among professionals, experts, and stakeholders. The below flyers contain detailed information about each webinar, including the topics covered, guest speakers, and dates.

[June 6, 2023](#)

TUESDAY 6th JUNE 14:00 (CET)

Webinar Series "Engineering the Future"
- LESSONS FROM TURKEY-SYRIA EARTHQUAKE & REBUILDING FOR A RESILIENT FUTURE

Moderator: Micheala Chan
Civil Engineer at Arcadis

Opening Remark: Mustafa Sheru
President-Elect, WFEO

Conclusion Remark: Firas Bou Diab
Chair of WFEO YE/FL

Panelists: Mark Scorer (Chief Engineer at Atkins Consultancy), Wafa Qasem (Shelter Associate at UNHCR)

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

[Oct 24, 2022](#)

THE WORLD FEDERATION OF ENGINEERING ORGANISATIONS
YOUNG ENGINEERS / FUTURE LEADERS COMMITTEE
AND THE YOUNG ENGINEERS AUSTRALIA NATIONAL COMMITTEE

ARE PLEASED TO INVITE YOU TO THE INTERNATIONAL WEBINAR

PSYCHOLOGICAL SAFETY
IN THE WORKPLACE

October 24
7:30am EDT
1:30pm CEST
9:30pm AEST
Duration 1 Hour

Speakers:

- ZOE LITTLE**
rf and systems engineer, yeanc committee, iharris communications
<https://www.linkedin.com/in/zoe-little-09875668/>
- ROB MOOLMAN**
managing director, kerville foundation and group
<https://www.linkedin.com/in/robert-moolman-9154b5238/>
- ANDREA MARTIN**
founder, engineer, leadership coach, andrea martin consulting
<https://www.linkedin.com/in/andreamartinmba/>
- CHRIS SIZEMORE**
community affairs, corporate social responsibility, iharris communications
<https://www.linkedin.com/in/sizemorechris/>
- FELICITY FUREY**
business leader, engineer, entrepreneur, ceo, founder weaspire, pae, machinam
<https://www.linkedin.com/in/felicity-furey-24b7a834/>

REGISTER HERE: [HTTPS://BIT.LY/3ROY8XX](https://bit.ly/3ROY8XX)

[Sep 1, 2022](#)

THURSDAY 1ST SEP 2022 14:00-15:00 (CEST)

Webinar Series "Engineering The Future"
Fulfilling Offshore Wind Potential

Moderator: Tak Tang
WFEO YE/FL Committee Member (Representative of Hong Kong SAR, China)

Speakers:

- José Vieira**
WFEO President
- Peter Thompson**
Director and East Asia Energy Business Leader, Arup
- Firas Bou Diab**
Chair of WFEO YE/FL Committee

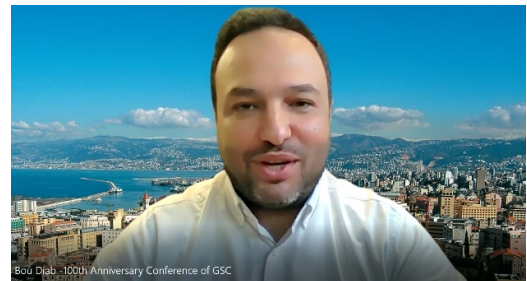
Register: <https://bit.ly/3Ker514>

Nov 19, 2021



Chair of YEFL Support the 100th Anniversary Conference of the Geological Society of China

During the conference held on **November 29, 2022**, to celebrate the Geological Society of China's (GSC) 100th anniversary, the Chair of YEFL Committee addressed the attendees. The speech emphasized GSC's significant global influence in Earth science communication, its role in providing impartial scientific information, and its support for policy-making. YEFL expressed enthusiasm and willingness to collaborate with GSC in cultivating an inclusive Earth science community. The speech highlighted the continued importance of supporting GSC and similar initiatives. The Chair expressed gratitude for the invitation and extended well wishes for a productive meeting. The remarkable milestone of GSC's centenary was duly acknowledged and celebrated.



Chair of YEFL Addresses The 2022 Global Roundtable For Young Scientist Scholar



YEFL Chair had the honor of delivering a keynote speech at the Global Roundtable for Young Scientist Scholars. The address focused on the Young Engineers Initiatives concerning SDG13 and highlighted the impactful journey of YEFL leading up to COP26. The keynote speech provided a platform for the Chair of YEFL to showcase the organization's commitment to addressing climate change and promoting sustainability through the lens of engineering. The Young Engineers Initiatives, spearheaded by YEFL, have consistently emphasized the critical role that young scientists and engineers play in shaping a sustainable future. The Chair's keynote speech was a call to action, encouraging young scientist scholars to actively engage in addressing SDG13 and contribute to sustainable development through engineering.

The address sparked discussions on the role of youth in advancing climate action, fostering collaboration, and harnessing technological innovations to create a more sustainable world.

UNDRR Risk Reduction Hub event “Accelerating Implementation of DRR and Resilience in Infrastructure.”

The Risk Reduction Hub, coordinated by the UN Office for Disaster Risk Reduction (UNDRR), was held on **17 May 2023**. The Hub served as a space for non-state actors and government representatives to discuss key themes for advancing risk reduction across sectors, regions, and contexts. YEFL contributed with a statement ([available here](#)) from youth on supporting governments to integrate resilience as a core value in infrastructure planning and implementation.



7th Annual Multi-stakeholder Forum on Science Technology and Innovation for the Sustainable Development Goals - Virtual Side Event



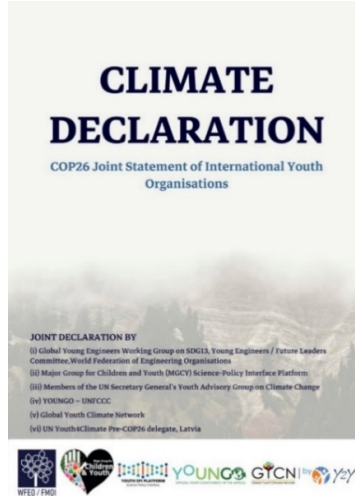
YEFL presented the side event on “**Preparing the Future Engineering Workforce to Achieve the SDGs Through Multi-Stakeholder Engagement**” at the **UN STI Forum** on **May 6, 2022**.

The event was split into two sections. The first section allowed organizations such as the **International Telecommunication Union (ITU)**, **WFEO-YEFL**, **Engineering for Change (E4C)**, and academic and industry partners, to share outcomes of programs that prepare rising engineers to apply their skills for sustainable development. The second half is an interactive discussion of best practices, opportunities for growth, and barriers that prevent young engineers from aligning their work with the SDGs. Pulkit Kanotra and Michaela Chan, discussed the YEFL role in Climate Action and how it pertains to SDG 13 and showcased the YEFL strategies to mitigate effects from climate change



COP 26

At COP26, the YEFL working group on SDG13 advocated for and shared the joint statement with key policymakers and advocates, including John Kerry, Nigel Topping, and Alok Sharma. The WG also contributed to the Oceans for Climate declaration. Members of the YEFL WG ONN SDG13 participated in and organized COP26 Blue Zone events that focused on business and entrepreneurship, and initiated interactions between young entrepreneurs and well-established international financial institutions. The WG also contributed to multiple media engagements, such as the Engineers Without Borders Australia podcast, Institution of Civil Engineers interviews, COP26 Resilience Hub article, and individuals' posts on LinkedIn.



COP 26 Joint Statement of International Youth Organizations

Capacity Building Webinars


The YEFL working group on SDG13 recognized that capacity building is key to meaningful inclusion of youth in climate action. As a result, the YEFL WG on SDG13 created several capacity building opportunities for young engineers and youth in general. Capacity building sessions included En-ROADS Climate Solutions Simulator (a global model that focuses on how changes in the energy, economic, and public policy systems could affect greenhouse gas emissions and climate outcomes) and a UNFCCC COP Simulator (a practical webinar discussion aimed at unwrapping the barriers, jargon and processes around the COP conferences and how youth can maximize impact at COP, especially if they have never attended before).





Asia Water Forum 2022
8-11 August 2022 • Online


Side Event
Establishing Young Water Professional (YWPs) Networks
8 August | 1:30-3:00 pm






Dr. Isabela Espindola
 Membership Engagement Officer
 International Water Association



Ms. Emily Ryan
 Master's Candidate
 TU Delft



Mr. Afolayan Juwon Samuel
 Global Chapters Facilitator
 World Youth Parliament for Water


Ms. Claudia Neuschulz
 Group Coordinator
 WYN - Water Youth Network



Ms. Cholpon Aitakhunova
 Regional co-ordinator
 Central Asia Youth for Water


Mr. Zihan Xuan
 Regional Youth Focal Point (Eastern & South-Eastern Asia)
 United Nations International Federation of Youth for Water and Climate


Ms. Maria Mercedes Kuri
 Regional Youth Focal Point for Latin America
 UN International Federation of Youth


Ms. Michelle Meaclem
 Civil Engineer
 World Federation of Engineering Organisations

ADB



THE EN-ROADS CLIMATE WORKSHOP

The En-ROADS Climate Workshop helps build support for strategies to address climate change via interactive testing of the cutting-edge simulation model En-ROADS, created by Climate Interactive and MIT Sloan.

In the workshop, participants propose climate solutions such as energy efficiency, carbon pricing, fossil fuel taxes, reducing deforestation, and carbon dioxide removal. The facilitator then tests these approaches using En-ROADS so that participants can see the impact on global temperature and other factors.

Join us to experience what it's like to create your own climate future using grounded conversations; the resulting experience is hopeful, science-based, action-oriented, and eye-opening.

When & where:

- 9th June at 17:00 BST
- Online (Zoom): bit.ly/en-roads-workshop

Contacts:

woods.kilian@gmail.com
wfoeyfl.climateaction@gmail.com

Hosted by Kilian Woods

COP27

The YEFL working group on SDG13 led the UNFCCC official side event at COP27 on **Utilizing expertise of the youth to bridge**

COP27

Blue Zone side-event

Utilising expertise of the youth to bridge the science-policy divide and improve access to finance


Stephen de Boer
 Assistant Deputy Minister,
 Environment and Climate Change, Canada


Cedric Frolick
 Member of the National Assembly, South Africa


Hon. Amira Saber
 Parliament Member, Secretary General of the Foreign Relations Committee, Egypt


Danae Kyriakopoulou
 London School of Economics and Political Science (Moderator)


Kirils Holstovs
 WFEO Young Engineers


Andrea Clayton
 Earth Ambassadors Organisation


Sarabeth Brockley
 Nasdaq

REGISTER NOW

10/11 18:30-20:00 EET Blue Zone
 Osiris & Online
<https://bit.ly/COP27-Youth-Expertise>

the science-policy divide and improve access to finance. In the lead up to this event, held in partnership with the International Federation of Consulting Engineers (FIDIC), the Association of Commonwealth Universities, Commonwealth Parliamentary Association, International Water Association, and Moravian University, stakeholder consultations were conducted to identify barriers and opportunities for youth engagement in policymaking. The WG also participated in and contributed to the Organisation of events at

the Capacity-building Hub, Children & Youth Pavilion, and Sustainable Development Goals Pavilion. During COP27, members of the YEFL working group on SDG13 also had the opportunity to facilitate bilateral meetings with parties and to advocate for capacity building, a clean energy transition, loss and damage, and climate finance.

COP28 LEAD UP SESSION



FREE ONLINE EVENT
3.00-4.00PM (AEST), 5.00-6.00PM (NZST)

CAMILLA DROVER
Deputy Secretary of Transport New South Wales

DR. CATHY BEBELMAN
Environment Programme Director for Auckland Transport

NATALIE MUIR
Regional Director – Environment and Geosciences AU, Stantec, FIDIC (Deputy Chair, Sustainable Development Committee)

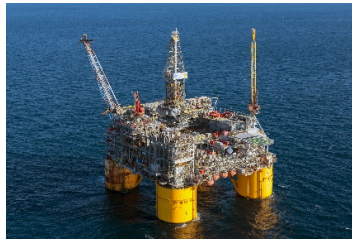
Key Questions

- Achieving global targets: A journey from past to present.
- Policy's role in sustainability and the Paris Agreement (2030 & 2050).
- Climate change's accelerating impact demands action.
- Young engineers advocate for governmental change as COP28 approaches.

How can young people be leaders in the world of STEAM?

We've got answers for you - with a special focus on engineering! Join the Young Engineers / Futures Leaders (YEFL) Committee of the World Federation of Engineering Organizations (WFEO) to learn about their exciting experiences and opportunities, including building your capacity for future leadership roles.



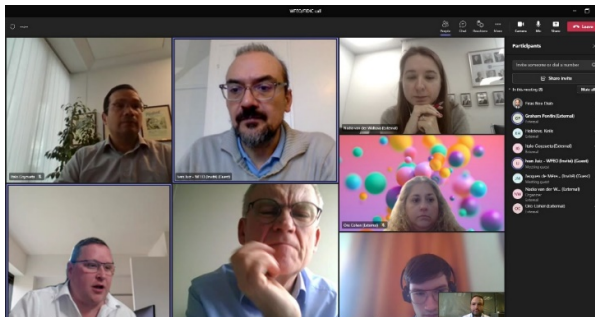


Collaboration in Action

E4C | Engineering for Change



FIDIC | International Federation of Consulting Engineers



KEY ACHIEVEMENTS, PUBLICATIONS, DECLARATIONS ETC.

CLIMATE DECLARATION - [COP26 Joint Statement of International Youth Organisations](#), by

- WFEO Young Engineers / Future Leaders Committee,
- Major Group for Children and Youth (MGCY) Science-Policy Interface Platform
- Members of the UN Secretary General's Youth Advisory Group on Climate Change
- YOUNGO – UNFCCC
- Global Youth Climate Network
- UN Youth4Climate Pre-COP26 delegate, Latvia

Singapore Sea Level Rise Design Competition

The YEFL entered and won the grand prize of the [Singapore Sea Level Rise Design Competition](#) run by Water Science Policy (WSP) and Institute for Environment and Sustainability (IES) at the Lee Kuan Yew School of Public Policy, National University of Singapore. The winning entry was published on the [WSP website](#). The entry was a multi-faceted approach that aims to forefront the importance of nature-based solutions in mitigating and reducing the consequences of sea level rise. An inclusive and equitable approach is important, and we hope that this competition is only the first step in engaging young professionals in creating a sustainable planet for all.

ICPS Climate Policy Competition

The YEFL working group on SDG13 entered the Institute for Climate Policy Solutions' [Climate Policy Competition](#) with a proposal of a framework to establish equitable, long-lasting youth inclusion in climate policies. This policy implements a purpose-built, globally-relevant, locally-adaptable framework for the inclusion of young people in climate policy. Governments' representation of their people should be based on open communication and continuous collaboration, especially with historically underrepresented groups. This must be reflected through systemic processes and procedures, signaling the commitment to long-lasting partnership. As such, the implementation of the framework proposed will build and strengthen enduring relationships between youth and their representative governments, globally. This work will form the basis for the continued development of the framework following our initial engagement at COP27.

CALL TO ACTION

As Young Engineers, commit to embracing innovation, upholding ethics, promoting sustainability, collaborating widely, investing in learning, engaging globally, communicating effectively, celebrating diversity, and being adaptable problem solvers. Together, we will shape a brighter future through engineering excellence.

