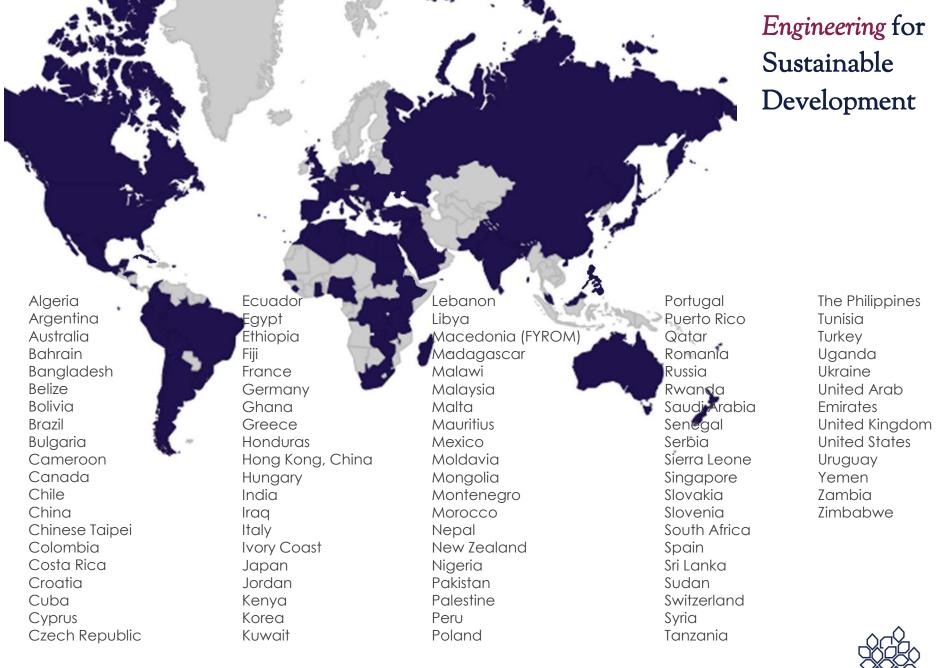


Engineering for Sustainable Development



- The international organization for the engineering profession
- Founded in 1968
- Under the auspices of UNESCO
- 90+ national engineering institutions
- Representing more than 30 million engineers





Engineering for Sustainable Development



Recognised NGO at UNESCO, with association status

Member of UN Scientific and Technological Community Major Group

10 Standing Technical Committees

Executive Council

Executive Board

Supported by a small secretariat based in Paris



WFEO Standing Technical Committees

- Engineering and the Environment (Hosted by UK)
- Energy (Hosted by USA)
- Engineering Education (Hosted by Lebanon)
- Information and Communication (Hosted by India)
- Engineering and Innovative Technologies (Hosted by China)
- Engineering Capacity Building (Hosted by South Africa)
- Disaster Risk Management (Hosted by Peru)
- Anti-Corruption (Hosted by Zimbabwe)
- Women in Engineering (Hosted by Nigeria)
- Young Engineers/Future Leaders (Hosted by Kuwait)

Also

UN Relations Committee (Hosted by USA)



Influencing...

a respected source of advice & guidance on engineering and technology

Supporting...

UN sustainable development goals

Partnering...

with our international peers in engineering and

science

Growing...

engineering capacity and mobility

Improving...

the ethical engineering practice and a diverse

and inclusive profession

Convening...

world engineers' events

Recognising...

excellence in engineering













































Celebrating 50 years of global leadership in engineering (I)

- On March 7, 2018 WFEO co-organized with UNESCO a half-day symposium at UNESCO headquarters in Paris.
- Top representatives from UNESCO, WFEO national and international members, and partnering NGOs presented their views on advancing the Sustainable Development Goals through engineering.
- The Paris Declaration was signed by WFEO President and UNESCO Assistant
 Director General for Science, the first ever joint commitment by UNESCO and
 any organization to promote engineering as a means of building sustainable
 development.





Celebrating 50 years of global leadership in engineering (II)

- On October 20-26 will be held in London WFEO Executive Council Meetings and the Global Engineering Congress (GEC 2018) hosted by WFEO National Member for UK, the Institution of Civil Engineers, celebrating its 200 years
- Two specific days will be organised by WFEO: October 22-23
- The WFEO Engineering 2030 plan will be presented
- Two WFEO Awards laureates will be announced:
 - The Dr Zuheir Alami Award for Engineering Innovation
 - The Gree Women in Engineering Award
- And so will be the laureate of the WFEO Young Engineers Competition,
 presenting the best project to progress the SDGs.



WFEO – UNESCO Declaration, signed on March 7, 2018







Paris Declaration

Advancing the United Nations
Sustainable Development Goals
through Engineering



The World Federation of Engineering Organizations (WFEO) is the main body for engineering globally, representing nearly 100 nations and some 30 million engineers.

The members of WFEO are the national and regional professional engineering institutions of the world. WFEO is a member of the United Nations Scientific and Technological Community (UN STC) Major Group and has an official Associate status with UNESCO.

UNESCO, as the United Nations agency for education, science and culture, supports engineering through its Natural Sciences Sector, and acknowledges engineering as a powerful means to achieve sustainable development, capacity-building in engineering education and gender equality in developing countries, as well as the safeguarding of world heritage.

CELEBRATING 50 YEARS OF INTERNATIONAL ENGINEERING LEADERSHIP

WFEO / FMOI

Maison de l'Unesco - 1 rue Miollis, 75015 Paris, France - Tel : +33 (0) 1 45 68 48 46

secretariat@wfeo.org - www.wfeo.org





Paris Declaration - Advancing the United Nations Sustainable Development Goals through Engineering



Considering that:

- In September 2015, the United Nations General Assembly adopted its
 Resolution 70/1 announcing the 2030 Agenda for Sustainable Development
 and its 17 Sustainable Development Goals (SDGs), which take an integrated
 approach to future development, combining progress in economic prosperity,
 social inclusion and environmental sustainability.
- 2. Engineers and engineering are critical for achieving the SDGs. Engineers have a key role in supporting the growth and development of essential infrastructures such as: roads, railways, bridges, dams, waste management, water supply and sanitation, energy and digital networks. They are responsible for developing and implementing technologies and systems that contribute towards achieving the SDGs as they relate to water, energy, environment, sustainable cities, natural disaster resilience and other areas, which will benefit people and the planet for greater prosperity and better quality of life.
- WFEO is committed to playing a key role in leading and coordinating projects to achieve the SDGs through engineering. WFEO can bring together its members, educational institutions, government and industry to address the need for engineering capacity and the quality of engineers around the world and develop strategic frameworks and best practices for the implementation of engineering solutions for sustainable development. The national and regional members of WFEO, that are leading professional engineering institutions, will develop country and region-specific responses.
- 4. The celebration of WFEO's 50th anniversary in 2018 is a catalyst to develop a framework for an action plan for the engineering capacity that is required to achieve the SDGs. The Symposium held today, on 7th March 2018, is the first stage in bringing together the WFEO members and partners to develop the WFEO Engineering 2030 Plan.

Accordingly, we declare:

- WFEO, a recognized member of the UN STC Major Group and UNESCO, through its Natural Sciences Sector, will work together and in cooperation with other UN organizations, including UNEP, UNFCCC and UNISDR towards achieving the SDGs through engineering.
- WFEO and UNESCO are committed to the following principles for action through engineering to achieve the SDGs:
 - Increase the numbers and quality of engineering graduates that meet the needs of sustainable development with rapidly changing technologies, in collaboration with educators, government and industry;
 - Inform global standards for engineering education, support the development of a range of engineering education systems to comply with agreed standards and facilitate the mobility of engineers;
 - Support capacity-building through strong institutions for engineering education and the development of accreditation bodies for the recognition of professional credentials;
 - d. Establish policy frameworks and best practices, notably through WFEO Standing Technical Committees, as digital technologies, data sciences and artificial intelligence have ethical and social implications.

Signed in Paris, 7 March 2018

Marlene Kanga

President

World Federation of Engineering Organizations

Marlene Kanja

a.i. Flavia Schlegel
Assistant Director-General for Natural Sciences

UNESCO



WFEO Engineering 2030 Plan

- WFEO Engineering 2030 A Plan to develop engineering capacity for a sustainable world through partnerships with educators, government, industry and professional engineering institutions
- a strategic initiative to address the gap in engineering capacity and the quality of engineering professionals
- recognises that engineers are essential for sustainable development good engineering is essential achieving the UN Sustainable Development Goals Consistent with the mission and objectives of WFEO
- WFEO will play a key role in leading and coordinating the Plan
- Result of wide consultation between national and international members of WFEO and other international partners



Engineering 2030 – Principles for Action

- 1. Encourage young people To consider engineering as a career
- 2. Graduate Outcomes Agree with educators, government, industry
- 3. Global standards for engineering education and professional development
- Partnerships with international standard setting organisations for consistent framework (IEA, ENAEE etc)
- Support development of national engineering education systems to comply with agreed standards
- 6. Capacity Building for accreditation of engineering education and accreditation bodies
- 7. Capacity Building for professional engineering institutions
- 8. Develop professional development pathways so graduates meet employer needs
- Support national and international registration for recognition of qualifications and experienced of practising engineers
- 10. Liaise with governments to establish consistent regulation policies for engineers
- 11. Establish an international platform for engineering standards Education and professional development, under auspices of WFEO and UNESCO
- 12. Report on progress to UNESCO and other international organisations





- Participation
- Advocacy
- Representation



The world's engineers united in rising to the world's challenges.

For a better, sustainable world.



The World Federation of Engineering Organizations

Fédération Mondiale des Organisations d'Ingénieurs