

A proposal to host Committee for Engineering (CEIE) 2019 to 2023

Host: Myanmar Engineering Council, MYANMAR.

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1. Background

- The World Federation of Engineering Organizations (WFEO) is the peak body for engineering globally, representing nearly 100 nations and more than 30 million engineers. The members of WFEO are the main national and regional professional engineering institutions of the world.
- The engineering institutions of the world recognize the critical need for more engineers with the skills that are required for modern industry and to advance the UN SDG. Engineers are needed in increased numbers for the growth and development of essential infrastructure such as roads, railways bridges, dams, and for improved outcomes on water, energy, environment, sustainable cities, natural disaster resilience and other areas

WFEO and IEA are bringing together their members and partner organizations to:

- a. Discuss and develop a global engineering education standard that reflects the development of new technologies and engineering disciplines and includes contemporary values such as sustainable development and ethics.
- b. Extend the global reach of the IEA Agreements and Accords through capacity building efforts that support the development of a range of engineering education systems, appropriate to each country, to comply with agreed standards and the development of strong institutions for accreditation of engineering education and the development of professional engineering institutions to support engineers' education and recognition of professional credential

2.a. Proposed scope of work of the Committee for Engineering Education (CEIE)

The key goal of the Committee for Engineering Education is to:

- a. Bring together leaders in engineering education and professional development, for a recognized global standard for engineering education which will facilitate mutual recognition of qualifications and the mobility of engineers, under the auspices of WFEO, IEA and UNESCO.

The specific work that needs to be done includes the review of the engineering education and professional development standards in collaboration with national and international members of WFEO, IEA and other international partners to ensure that these:

- (i) meet the needs of industry and other employers of engineering in the future
- (ii) address new and emerging disciplines in engineering
- (iii) include the values of sustainability, ethics, diversity and inclusion, responsible use of data and other new values

2.b. Proposed scope of work of the Committee for Engineering Education (CEIE)

b. Work with the national members of WFEO in Asia, Africa and Latin America to build capacity for more engineers with the appropriate engineering skills to address critical needs for sustainable development. This work will include mentoring the accreditation bodies and engineering institutions in countries that seek support and develop national engineering systems that are appropriate to local need, culture and systems but also meeting the international engineering education benchmarks that are set by the IEA.

The specific work program will be developed with countries that nominate support and will consist of the following tasks:

- (i) Assessment of a country's current systems of engineering education and requirements to achieve provisional status
- (ii) Provide mentors for countries in the process of making a provisional application to the IEA
- (iii) Training of assessors, e.g. IEA Global Reach Initiative, Train the Trainer Sessions, FEIAP training, opportunities at Africa Engineering Week etc.

3. Operations

a. Committee structure

- The CEIE will develop two work groups to cover the two major areas of work. Each work group will consist of volunteer resources from WFEO members and international partners

b. Membership

- The Secretariat will maintain a current list of members and their contact information.

c. Meetings

- The CEIE will hold one face-to-face meeting each year, normally at the same time as the WFEO annual meeting – Executive Council or General Assembly.
- The work groups will meet virtually during the year and review progress on projects and specific mentoring activities at the annual face to face meetings

3. Operations

d. Communications

- The activities of the committee will be communicated to WFEO members by:
 - (i) Newsletter – The Committee will produce a newsletter for WFEO members at least twice per year.
 - (ii) WFEO Website - The CEIE Secretariat will provide updates to the WFEO webmaster so that the CEIE web pages are up to date.

e. Outcomes

- A schedule of outcomes will be developed once the work plans have been developed for specific members. These outcomes will also be reported to IEA

f. Reporting

- The Chair and Secretariat will prepare and submit an annual report to the WFEO meetings and for the WFEO biennial report.

4. Proposed Budget and Resources

The total CEIE annual budget is estimated at 50,000 USD per year.

- The host Myanmar Engineering Council will mobilize this budget from its own sources and engagement of strategic partners.
- The MEngC Governing Council and Secretariat will coordinate and manage all activities and expenses for this budget.
- This budget consists of the costs for:
 - Office facilities for Committee Secretariat in the offices of MEnC in Yangon
 - Support staff salary, rentals, utilities and consumables
 - Workshops, seminars and attending conferences that are organized locally or internationally and co-hosted by the Committee held outside the host member country, as this is an international committee
 - Participation in WFEO major events such as the annual conference and Chairing of the meeting of the CEIE Committee (travel costs for the Chair to attend the meetings)
 - Development of training materials and other documents in relation to the work of the Committee.
 - Other sources of Funding

The Secretariat and Chair will support efforts towards securing funding from external sources such as Corporate sponsors and international funding agencies

5. Confirmation of Compliance with WFEO Rules of procedures for Committees

- This strategy document aligns with relevant clauses (3.2, 2.4 and Annex C Clauses 2.1 to 2.4) of the WFEO Rules of Procedure that were approved by the WFEO Executive Council in London 23 October 2018.

Thanks for your kind attention.