

39th Conference of the ASEAN Federation of Engineering Organisations (CAFEO 39)

The Bandar Seri Begawan Declaration

“Engineering and Climate Change”

29th November to 3rd December 2021

Bandar Seri Begawan, Brunei Darussalam

WE, representing the national engineering organisations in the 10 ASEAN member countries, collectively known as the ASEAN Federation of Engineering Organisations (**AFEO**), namely, Pertubuhan Ukur, Jurutera dan Arkitek (**PUJA**), **Brunei Darussalam**; Board of Engineers Cambodia (**BEC**), **Cambodia**; Persatuan Insinyur Indonesia (**PII**), **Indonesia**; the Lao Union of Science and Engineering Associations (**LUSEA**), **Lao PDR**; The Institution of Engineers, Malaysia (**IEM**), **Malaysia**; the Federation of Myanmar Engineering Societies (**Fed.MES**), **Myanmar**; the Philippine Technological Council (**PTC**), **Philippines**; The Institution of Engineers, Singapore (**IES**), **Singapore**; The Engineering Institute of Thailand under H.M. The King’s Patronage (**EIT**), **Thailand**; and the Vietnam Union of Science and Technology Associations (**VUSTA**), **Viet Nam**, participate in the “Hybrid” 39th Conference of the ASEAN Federation of Engineering Organisations (**CAFEO 39**) both virtually and physically, hosted by PUJA in Bandar Seri Begawan, Brunei Darussalam, from the 29th November to 3rd December with the theme: **Engineering and Climate Change**.

RECALLING that at CAFEO 38, held from 18th to 26th November 2020, in ‘hybrid’ format, in Hanoi, AFEO by way of **The Hanoi Declaration** called on AFEO Member Organisations to take pro-active steps in strengthening Global and ASEAN regional system by facilitating essential mobility virtually for engineers, technologies and technicians, to harmonize The ASEAN Chartered Professional Engineer (ACPE) and ASEAN Engineering Register (AER), to accelerate and adopt People-centered Digital Transformation, to innovate and develop sound solutions to address climate change and COVID-19 challenges and strengthen sustainability and healthy ASEAN community.

THE OBJECTIVES of CAFEO 39 are to reaffirm AFEO’s commitment to the ASEAN Community Vision 2025, and the United Nation Agenda 2030 on Sustainable Development (Agenda 2030) by reinforcing the core role of engineers, engineering technologists and technicians in promoting sustainability, in the development of resilient solutions and facilitate adaptive cooperation programs to manage climate change, social and environmental issues and their related impacts, forging ahead towards a dynamic and resilient ASEAN community.

Having considered the issues during the conference under the strategic theme “**Engineering and Climate Change**”, AFEO commits to carrying out its duties and responsibilities diligently and amongst others, to establish strong network with private entities, trade associations and government organisations with ASEAN members countries to promote sharing of experience and knowledge, consistently promote, as well as enhance connectivity and collaboration amongst AFEO members, and to deliver high-quality engineering education that will produce future-ready engineers, technologists and technicians who hold paramount importance of the products and the services , health and wellbeing of the people .

RESOLUTION AND DECLARATION:

AFEO member countries commit to take effective actions to implement the ASEAN Community Vision 2025 and ASEAN Leaders’ Vision Statement on ASEAN cohesion and proactive adaptation; the United Nation 2030 Agenda for Sustainable Development (Agenda 2030) through key initiatives and AFEO working groups. This **Bandar Seri Begawan Declaration** envisions to create a deeply integrated and highly cohesive ASEAN economy which supports economic growth, resilient to climate, social and environment challenges, while incorporate agenda that promote awareness, low carbon technology and circular economy.

AFEO members pledge to promote the values and ethos of the engineering community in the spirit of the ASEAN family.

WE at CAFEO 39 hereby RESOLVE: -

A) Sharing:

To exchange best practices and guidelines on engineering and management; climate change mitigation; disaster management; sustainable cities; engineering education and capacity building; energy, transportation and logistics.

B) Mutual Recognition:

To strengthen connectivity and mobility of engineers, engineering technologists and technicians among ASEAN and global engineering community, and to promote mutual recognition through shared platform to support economic activities.

C) Connectivity for Capacity Building:

- (i) To facilitate connectivity through virtual platform and to enable capacity building and development of ASEAN engineers, engineering technologists and technicians among member institutions through on-line courses, regular webinars and sharing of resources.

- (ii) To encourage academic institutions and younger generation to promote STEM (Science, Technology, Engineering and Mathematics) education and train to be future engineers, technologists and technicians to enable sufficient resources to manage future challenges such as the current unprecedented COVID-19 pandemic and climate change.

D) Climate Change:

- (i) Climate change is one of the greatest environmental threats facing the world. Responding to its catastrophic impacts, ASEAN engineers pledge to review, identify, develop and adopt optimum engineering solutions and best practices in tackling the challenges and adopt technologies that support social change and build economic resilience.
- (ii) Promote the need for sustainable investment and implementation of climate change mitigation and adaptation action plans through working with governments and professional bodies to call for change in policy and legislation through consultation and guidance.
- (iii) Promote, share and disseminate knowledge and research from institutions of higher learning, governments and among ASEAN member organizations, especially in subject matters related to food security, water security and natural resources affected by climate change.
- (iv) Promote initiatives to reduce ASEAN countries carbon footprint by promoting low carbon and energy efficiency engineering practices, reducing embodied carbon in construction as well as engaging with our stakeholders in the supply chain.

E) Sustainable Economic Development

Responding to COVID 19 pandemic, the use of smart technology, information technology and internet of things are paramount in providing new ways for learning and communication, and new solutions for robust business and economic activities so as to enable sustainable economic development.

CALL TO ACTION

WE, the member organisations of ASEAN Federation of Engineering Organisations (AFEO) commit ourselves to this **Bandar Seri Begawan Declaration** at the CAFEO 39 and shall, individually and collectively adopt, enhance and accelerate the actions stated in this Declaration.

SO RESOLVED AND AGREED BY:

APPROVED IN PRINCIPLE FOR ENDORSEMENT AND RATIFICATION BY THE CONSTITUENT MEMBERS OF THE TEN (10) AFEO GOVERNING BOARD AT ITS MEETING ON THIS 3rd OF DECEMBER 2021

Signed at the Hybrid 39th CAFEO held virtually in Bandar Seri Begawan, Brunei Darussalam



Ir. Tuan Hj Mohd Zin Bin Mohd Salleh
PUJA President and concurrently
AFEO Chairman
(Brunei Darussalam)



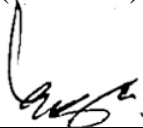
H.E. Lim Sothav
BEC Secretary-General
On behalf of BEC President
(Cambodia)



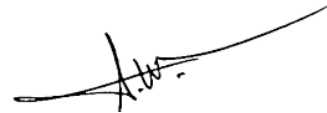
Ir. Somphone Phanousith
LUSEA Secretary-General
On behalf of LUSEA President
(Lao PDR)



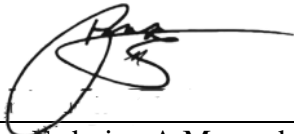
Ir. Dr Heru Dewanto
PII President
(Indonesia)



Ir. Ong Ching Loon
IEM President
(Malaysia)



Engr. Aung Myint
Fed. MES President
(Myanmar)



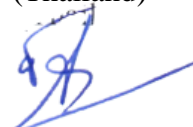
Engr. Federico A Monsada
PTC President
(Philippines)



Dr Thanes Weerasiri
EIT President
(Thailand)



Dr Richard Kwok Wai Onn
IES President
(Singapore)



Dr Sc. Phan Xuan Dung
VUSTA President
(Vietnam)



Ir. Mohd Khir bin Muhammad
AFEO Secretary- General