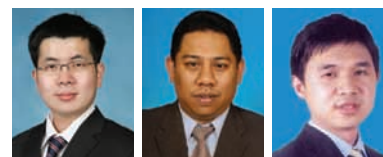


## Delegation Report for the 27th Conference of ASEAN Federation of Engineering Organisations (CAFEO): *Engineering for Sustainable Environment*

IEM-YES



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**SINGAPORE** is reputed to be one the leading countries in the world in terms of urban planning and sustainable development. Integrated efforts between the Singapore government and private sector have enabled the country to achieve a good balance of economic growth while mitigating its effects on the environment. One of Singapore's most notable successful sustainable development projects is the processing of NEWater.

In 2009, the Institution of Engineers Singapore (IES) hosted the 27th Conference of ASEAN Federation of Engineering Organisations (CAFEO-27) with the theme "Engineering for Sustainable Environment". The theme was in line with Singapore and ASEAN Federation of Engineering Organisations (AFEO) members' commitment to sustainable development.

CAFEO is held annually, hosted in rotation by each member of AFEO since 1982. The official opening ceremony was held on 1 December 2009 at Suntec International Convention Centre. A total of 40 Malaysian delegates attended the opening ceremony that was officiated by the Minister for National Development of Singapore, Mr. Mah Bow Tan, who gave a speech entitled "Role of ASEAN Engineers in Sustainable Development". During the opening ceremony, three Malaysian engineers were conferred with Honorary Fellowship:

- i) Tan Sri Dato Seri Dr Yeoh Tiong Lay
- ii) Dato' Paduka Ir. Prof. (Dr) Hj. Keizrul bin Abdullah
- iii) Dato' Ir. Hj. Ahmad Husaini bin Sulaiman

The event proceeded with keynote speeches and a technical seminar that was arranged into four parallel sessions:

- i) Environment and Water Resources
- ii) Civil and Structural
- iii) Mechanical and Electrical and Clean Energy
- iv) Health and Safety and other topics

The CAFEO-27 country reports were presented on 2nd December 2009. Senior members of AFEO presented country reports with reference to sustainable development. During this session, presenters took the opportunity to suggest ways to improve sustainability through engineering

technology and strengthen cooperation among ASEAN countries.

Delegates were later brought on a technical visit to Marina Barrage. Marina Barrage is Singapore's first reservoir in the city and has garnered a string of awards. The latest award at that time was the Superior Achievements Award of Environmental Engineering by the American Academy of Environmental Engineers (AAEE). Officers from Singapore's Public Utilities Board (PUB) briefed the delegates on the construction of the Marina Barrage and gave a guided tour around the reservoir.



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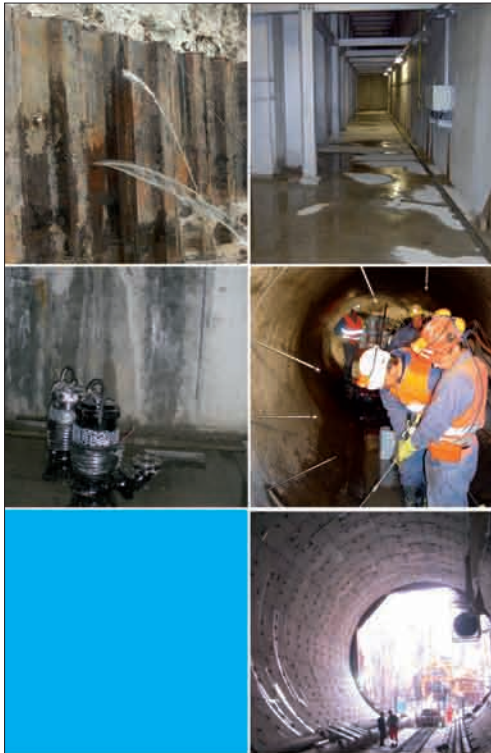
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### MARINA BARRAGE

Marina Barrage is built across the 350-metres wide Marina Channel to keep seawater out of the channel. It creates a source of fresh water supply, provides a flood control system in low lying areas of the city and has become a new venue for recreational activities. The recreational area is located at the green roof atop the Marina Barrage building. In addition, a solar park was built adjacent to the green roof to help power the dam and pumps.



Figure 1: Marina Barrage (Photo from Singapore Press Centre)

On the sidelines, a meeting of Young ASEAN Federation of Engineering Organizations (YEAFO) was held on 1 December 2009. As a platform for young engineers in ASEAN countries to discuss about activities and challenge in their respective country, this year the YEAFO Chairperson challenged all young engineer delegates to focus on “Go Green”. The delegates also presented their country reports on young engineers activities. Besides delegates from ASEAN, this year’s meeting was also attended by delegates from Hong Kong and Japan.

The Conference ended with an ASEAN Networking Dinner and the closing ceremony. The Malaysian delegates took the opportunity to perform Malaysian songs to promote Malaysian culture to the rest of the delegates. ■



Figure 2: Delegate of Young ASEAN Federation of Engineering Organizations (YEAFO)



Figure 3: Malaysian delegates during performance of Malaysian Culture songs