



## MAJLIS BAGI SESI 2010/2011 (IEM COUNCIL SESSION 2010/2011)

## YANG DIPERTUA / PRESIDENT:

Y. Bhg. Dato' Ir. Prof. Dr Chuah Hean Teik

## TIMBALAN YANG DIPERTUA / DEPUTY PRESIDENT:

Ir. Chen Kim Kieong, Vincent

## NAIB YANG DIPERTUA / VICE PRESIDENTS:

Ir. M.C. Hee, Ir. Lee Weng Onn, Y. Bhg. Datuk Ir. Rosaline Ganendra, Ir. Yim Hon Wa, Ir. Prof. Dr Ruslan bin Hassan, Y. Bhg. Dato' Ir. Hj. Abdul Rashid bin Maidin, Ir. Choo Kok Beng

## SETIAUSAHA KEHORMAT / HONORARY SECRETARY:

Ir. Prof. Dr Lee Teang Shui

## BENDAHARI KEHORMAT / HONORARY TREASURER:

Ir. Assoc. Prof. Dr Chiang Choong Lun, Jeffrey

## WAKIL AWAM / CIVIL REPRESENTATIVE:

Ir. Prof. Dr Mohd. Zamin bin Jumaat

## WAKIL MEKANIKAL / MECHANICAL REPRESENTATIVE:

Ir. Tan Chee Lin @ Tan Ah Kow, Phillip

## WAKIL ELEKTRIK / ELECTRICAL REPRESENTATIVE:

Ir. Yusouf bin Ahmad

## WAKIL STRUKTUR / STRUCTURAL REPRESENTATIVE:

Ir. Tu Yong Eng

## WAKIL KIMIA DAN DISIPLIN LAIN / CHEMICAL AND OTHERS REPRESENTATIVE:

Ir. Razmahwata bin Mohamad Razali

## WAKIL LAIN-LAIN DISIPLIN / REPRESENTATIVE TO OTHER DISCIPLINES:

Ir. Assoc. Prof. Dr Cheong Kuan Yew

## AHLI MAJLIS / COUNCIL MEMBERS:

Ir. S. Kukanesan, Ir. Lai Sze Ching, Ir. Manogaran a/l K.Raman, Ir. Oon Chee Kheng, Ir. Li Thang Fai, Ir. Prof. Dr Mohd. Saleh bin Jaafar, Ir. Noor Hisham bin Yahaya, Ir. Prof. Dr Lee Sze Wei, Ir. Yee Yew Weng, Ir. Mah Soo, Ir. Dr Ahmad Anuar bin Othman, Ir. Yau Chau Fong, Ir. Wong Chee Fui, Ir. Mohd. Khir bin Muhammad, Y. Bhg. Dato' Ir. Hj. Mohd. Isa bin Hj. Sarman, Ir. Assoc. Prof. Dr Marlinda binti Abd. Malek, Y. Bhg. Dato' Ir. Lim Chow Hock, Ir. Lai Kong Phool, David, Y. Bhg. Dato' Ir. Chee Shi Tong, John, Ir. Gopal Narian Kutty, Ir. Tan Yean Chin, Y. Bhg. First Admiral Dato' Ir. Hj. Ahmad Murad bin Hj. Omar (Rtd), Ir. Ng Shiu Yuen, David, Ir. Kim Kek Seong, Ir. Chong Chew Fan, Ir. Hj. Mohamed Ali bin Yusoff, Ir. Kok Yen Kwan

## AHLI MAJLIS / COUNCIL MEMBERS (BY APPOINTMENT):

Y. Bhg. Dato' Ir. Hj. Ahmad Husaini bin Sulaiman, Y. Bhg. Dato' Ir. (Dr) Seo Kian Haw, Andy, Y. Bhg. Dato' Dr Ir. Gan Tian Leong

## BEKAS YANG DIPERTUA TERAKHIR / IMMEDIATE PAST PRESIDENT:

Y. Bhg. Dato' Paduka Ir. Prof. (Dr) Keizrul bin Abdullah

## BEKAS YANG DIPERTUA / PAST PRESIDENTS:

Y. Bhg. Dato' Paduka Ir. Prof. (Dr) Keizrul bin Abdullah, Y. Bhg. Dato' Ir. Pang Leong Hoon, Y. Bhg. Dato' Ir. (Dr) Hj. Ahmad Zaidee bin Laidin, Y. Bhg. Datuk Ir. Prof. Dr Ow Chee Sheng, Ir. P.E. Chong, Ir. Dr Gue See Sew

## PENGURUSI CAWANGAN / BRANCH CHAIRMAN:

1. Pulau Pinang – Ir. Ng Sin Chie
2. Selatan – Ir. Mohd. Khir bin Muhammad
3. Perak – Ir. Assoc. Prof. Dr Md. Azlin bin Md. Said
4. Kedah-Perlis – Ir. Hj. Mohd. Saiful bin Hj. Mohd. Sohoh
5. Negeri Sembilan – Ir. Hj. Baharuddin bin Ahmad Nasir
6. Timur – Ir. Hj. Roslan bin Abdul Aziz
7. Terengganu – Ir. Mohd. Azmi bin Ali
8. Melaka – Ir. Mohd. Khalid bin Nasir
9. Sarawak – Ir. Dr John Panil
10. Sabah – Ir. Teo Chee Kong
11. Miri – Ir. Ting Kang Ngii, Peter

**AHLI JAWATANKUASA INFORMASI DAN PENERBITAN /  
STANDING COMMITTEE ON INFORMATION AND PUBLICATIONS 2010/2011:**

Pengerusi/Chairman cum Chief Editor: Y. Bhg. Dato' Ir. Hj. Abdul Rashid bin Maidin

Naib Pengerusi/Vice Chairman: Ir. Tan Yean Chin

Setiausaha/Secretary: Ir. Lau Tai Onn

Ketua Pengarang/Chief Editor: Y. Bhg. Dato' Ir. Hj. Abdul Rashid bin Maidin

Pengarang Buletin/Bulletin Editor: Engr. Abi Sofian bin Abdul Hamid

Pengarang (Jurnal)/Journal Editor: Ir. Assoc. Prof. Dr Marlinda binti Abdul Malek

Pengerusi Perpustakaan/Library Chairman: Ir. CMM Aboobucker

Ahli-Ahli/Committee Members: Ir. Yee Thien Seng, Ir. Oon Chee Kheng, Ir. Chin Mee Poon, Ir. Prof.

Dr Mohd. Saleh bin Jaafar, Ir. Hj. Look Keman bin Sahari, Ir. Mohd. Khir bin Muhammad, Ir. Prof. Dr Mohd.

Zamin bin Jumaat, Ir. Tu Yong Eng, Ir. Yee Yew Weng, Y. Bhg. Datuk Ir. Prof. Dr Ow Chee Sheng, Ir. Cheong

Loong Kwong, Allen, Ir. Ong Guan Hock, Ir. Tey Choo Yew, Calvin, Engr. Chin Kok Keong, Steven,

Engr. Shuhairy bin Norhisham

IEM Secretariat: Nor Aziah Budin, Nurul Aida Mustafa

## THE INSTITUTION OF ENGINEERS, MALAYSIA

Bangunan Ingenieur, Lots 60 &amp; 62, Jalan 52/4, P.O. Box 223,

(Jalan Sultan) 46720 Petaling Jaya, Selangor Darul Ehsan.

Tel: 603-7968 4001/4002 Fax: 603-7957 7678

E-mail: sec@iem.org.my Homepage: http://www.MyIEM.org.my



## Trends in Professional Engineering Practice in Malaysia

by Ir. Dr Ooi Teik Aun, FIEM, P. Eng.

**PRIOR** to 1970s the submission of plan to the local authorities is regulated by the local town councils. The registration of submitting person is on adhoc basis through the individual local authority. In 1960s, The Institution of Engineers, Malaysia (IEM) initiated the formation of the Board of Engineers, Malaysia (BEM). The Registration of Engineers Act 1967 (REA) was enacted with the basic aim at that time to register engineers for the purpose of submission of plan to local authorities. Engineers who are registered with BEM as P. Eng. are deemed to meet the requirements to practise as a 'qualified person' and to sign plans submitted to local authorities. However, the REA was only implemented in 1972. To register as a graduate engineer, one must be in the Government service or has been exempted from the service. Currently, graduate engineers are exempted from Government service. Members of IEM with corporate membership are deemed qualified to apply for registration with BEM as P. Eng.

The BEM's equivalent is that of the Engineering Council of the United Kingdom. In the United Kingdom, however, the Engineering Council only registers individual engineer as C. Eng. upon him being admitted as an AMICE (this was later change to MICE) of The Institution of Civil Engineers for civil engineers. The Engineering Council does not register the Engineering Consulting Practice (ECP). The C. Eng. is held in high esteem globally.

In Malaysia, BEM has recently amended the REA and carry out registration of individual P. Eng. who are in private practice as sole proprietor and the registration of all engineering consulting firms as body corporate. BEM has of late been contemplating classification of ECP according to the size of the practice. The IEM is not in favour of such classification as in the eyes of the REA all P. Eng. are equally capable of carrying out their service in their respective fields. The ECP classification thus followed the model of classification of contractors. ECP classification will thus erode the professional standing of P. Eng.

The Engineering Consulting Practice has faced tremendous challenges since the introduction of Turnkey Design by the Government in 1980s. The work is given to a Turnkey operator who then carries out an invitation to bid to the ECPs. This move has changed the character of ECP from one of a professional practice to that of economic value for service. This trend is dangerous as safety, code of practices and good practices may be compromised in the pursuit of economic value by the Turnkey operator. Turnkey operator has a short period of obligation of 5 to 8 years and hence the economic value in the value engineering evaluation may not be to the benefit of the client in the whole life cycle cost.

It is fortunate that we do not have value medication introduced in the medical profession. Generic medicine has been used but has been found to be not as effective as the original formulation. The medical profession also does not have an "Accredited Checker" system.

BEM should carefully examine the implementation of the Accredited Checker system through the Building Uniform Bylaws, as traditionally peer review of a design, is carried out if required by the Client/Authority.

The Consulting Engineering Special Interest Group (CESIG) of IEM was inaugurated in 2010 arising out of concern for the continuing professional development (CPD) and welfare of majority of P. Eng. who are in the ECP service generally. Workshop, seminars and evening lectures are conducted to help IEM members and others who are interested to advance themselves in the practice of ECP.

The ICE President in his welcoming speech at the recent Asia Pacific Conference on Infrastructure Development in the Tropical Environment held in Kuala Lumpur has called on engineers to think of "Value for Carbon" as opposed to "Value for Money" which is more commonly an expectation placed by the client. The IEM President at the same conference also called on engineers to get the technologies and know-how to promote sustainable development and eco-efficient business in our projects. These are our greatest challenges in the practice of ECP. In this respect, the CESIG has spearheaded the IEM position paper on Green Technology. ■