001-008·blue pages 4/06 3/16/06 12:14 PM Page 1

To All Members, Date: 13 March 2006

CANDIDATES APPROVED TO SIT FOR YEAR 2006 PROFESSIONAL INTERVIEW

The following candidates have been approved to sit for the Professional Interview for 2006.

In accordance with Bylaws 3.7, the undermentioned names are published as having applied for membership of the Institution, subject to passing the year 2006 Professional Interview.

If any Corporate Member of the Institution has any reason as to why any of the candidates is not a fit and proper person for election, he should communicate in writing to the Hon. Secretary. Such communication should be lodged a month from the date of publication.

Ir. MC Hee
Honorary Secretary, IEM

TRANSFER APPLICANTS

AGRICULTURAL ENGINEERING		
24491	TANG HEE TEIK	BE (HONS) (UPM) (AGRI,99)
CIVIL ENGINEERING		
17935	AZIZ BIN DERAMAN	BE (HONS) (UTM) (CIVIL, 98)
17545	BAIDAH BINTI DAMAN HURI	ADV DIP (ITM) (CIVIL, 95)
23191	EEH YIH BING	BSC (KENTUCKY) (CIVIL, 99)
23955	KOO SOH TIAN	BE (HONS) (USM) (CIVIL, 99) MSC (HIGHWAY & TRAFFIC, 2001)
17462	LOI YEW HUA	BE (HONS) (UTM) (CIVIL, 2000) MSC (UPM) (STRUCTURAL, 2003)
16806	NORHADZIANA BINTI JAMAL	BE (HONS) (USM) (CIVIL, 97)
24536	TAN KIE HUI	BE (HONS) (KUiTTHO) (CIVIL, 2002)
19972	TEN PANG SIN	BE (HONS) (UKM) (CIVIL & STRUCTURAL, 96)
20525	WONG KUEN MOU, TERENCE	BE (HONS) (BIRMINGHAM) (CIVIL, 99)
ELECTRICAL ENGINEERING		
23208	CHANG SIEW CHUNG	BE (HONS) (CANTERBURY) (ELECT & E'TRONIC, 2002)
23502	LOK CHIH LIANG, KENNY	BE (BALLARAT, AUST) (ELECT, 98)
25787	ULAGANATHAN A/L EDDIKAN	BE (HONS) (UM) (ELECT, 2001)
ELECTRONIC ENGINEERING		
23979	ABDUL HAFEEZ BIN ABDUL MUTALIB	BSC (CASE WESTERN RESERVE UNI, USA) (ELECT, 97)

NEW APPLICANTS

CIVIL ENGINEERING	
ALI AHMAD HAMID	BE (HONS) (UTM) (CIVIL, 85) MSC (HERRIOT-WATT) (SOIL MECHANICS, 90)
LOH CHENG KUI, SIMON	BE (HONS) (BIRMINGHAM) (CIVIL, 98) MSC (NAT. UNI. S'PORE) (BUILDING SC.,2004)
SEE EE THENG	BE (HONS) (UTM) (CIVIL, 97) ME (UTM) (ENG. MGMT, 98)
ELECTRICAL ENGINEERING	
AHMAD FAIZ BIN MOHD SALLEH	BSC (PORTLAND) (ELECT, 96)
LIM PHING HUA	BE (HONS) (SUSSEX) (ELECT & E'TRONIC, 97)
MUSTAPHA BIN HUSAIN	BSC (HONS) (PORTSMOUTH POLY) (ELECT, 75)
SHAMSHULDALI BIN MOHD ALI	BSC (RENSSELAER) (ELECT. POWER, 91) ME (RENSSELAER) (ELECT. POWER, 92)
ELECTRONIC ENGINEERING	
CLARENCE AUGUSTINE TEE TECK HUO	BE (HONS) (LEEDS) (ELECT & E'TRONIC, 97) PhD (CAMBRIDGE) (2002)

001-008·blue pages 4/06 3/16/06 12:14 PM Page 2

IEM DIARY OF EVENTS

For further enquiries on the events below, please contact IEM Secretariat at 03-7968 4001/2 or visit IEM Homepage at http://www.iem.org.my

Standing Commitee on Welfare and Service Matters
12 APRIL 2006
Time: 5.30 p.m. - 7.30 p.m.
Talk on "Estate Planning"

22 APRIL 2006
AGM & 47th Annual Dinner and Awards Night (An Evening with IEM)
Grand Ballroom, Palace of the Golden Horses Seri Kembangan

7 MAY 2006
Time: 10.30 a.m. - 2.00 p.m.
IEM Open House
Dewan Tan Sri Mahfoz Khalid
JKR/KKR Hall, Block C
Jalan Sultan Salahuddin
50582 Kuala Lumpur

8 - 12 MAY 2006
IEM/BEM Exam

Standing Committee on Corporate Affairs
15 APRIL 2006
Time: 9.30 a.m. - 1.00 p.m.
Public Colloquium on "ETI – Think Global, Act Local: The MRA Factor"

Building Services Technical Division
20 APRIL 2006
Time: 5.30 p.m. - 7.30 p.m.
Talk on "Digital Scroll Technology"

Oil, Gas and Mining Technical Division
13 - 14 APRIL 2006
Time: 8.30 a.m. - 5.30 p.m.
2 Days Course on Protection of Steel Structures by Painting
Speaker: Mr. Frankie Chua / Ms. Mashitah Yeop

25 APRIL 2006
Time: 5.00 p.m. - 7.00 p.m.
Talk on "Murphy Kikeh First Deepwater Development in Malaysia"

25 & 26 APRIL 2006
Time: 8.30 a.m. - 5.30 p.m.
CONCET: 2 Days Course on Pressure Vessel and Welding Practices
Menara PKNS Seminar & Conference Centre

Civil and Structural Engineering Technical Division
13 MAY 2006
Time: 9.00 a.m. - 5.00 p.m.
One Day Post-Conference Course on "Temperature Limits in Thick Concrete Structures – A Hot Issue"
Armada Hotel, Petaling Jaya

CONFERENCES FOR 2006

9 - 11 MAY 2006
Conference on Concrete Engineering and Technology (CONCET)
Sheraton Subang Hotel

22 - 26 MAY 2006
11th Asian Congress on Fluid Mechanics (ACFM)
Berjaya Times Square Hotel and Convention Centre

27 - 30 AUGUST 2006
11th APCChE Congress
Kuala Lumpur Convention Centre (KLCC)

28 AUGUST 2006
IEM/IES/PII Tripartite Meeting
Kuala Lumpur Convention Centre (KLCC)

28 - 30 AUGUST 2006
Chemical Technology Exhibition (ChemTex)
Kuala Lumpur Convention Centre (KLCC)

5 - 7 SEPTEMBER 2006
Brownfield Asia 2006 - International Conference on Remediation and Management of Contaminated Land: Focus on Asia
Berjaya Times Square Hotel and Convention Centre

29 NOVEMBER – 3 DECEMBER 2006
24th Conference of ASEAN Federation of Engineering Organisation (CAFEO' 06)
Petaling Jaya
Website : http://www.aseanengineers.com/CAFEO24
(Call for Papers - before 20 April 2006)

CONFERENCES FOR 2007

8 - 11 MAY 2007
16th Southeast Asian Geotechnical Conference (SEAGC 2007)
Venue : Sheraton Subang Hotel & Towers, Subang Jaya
E-Mail : 16seagc@iem.org.my
Website : http://www.16seagc.com
(Call for Papers)

1 - 5 AUGUST 2007
3rd World Engineering Congress (WEC)
Venue : Penang

CONFERENCE & SEMINAR

MALAYSIA

9 - 10 May 2006
SHORT COURSE ON PUMPING WORKS ENGINEERING – FOCUSED ON CAE APPLICATIONS
Organiser : ACEM
Venue : Hotel Equatorial, KL
Tel : 03-2095 0031
Fax: 03-2095 3499
E-mail : sec@acem.com.my
(Invitation to Register - before 2 May 2006)

6 - 9 August 2006
INTERNATIONAL CONFERENCE ON SLOPE, MALAYSIA 2006
Venue : PWTC, Kuala Lumpur
Organiser : Ministry of Works Malaysia, JKR, REAM
Tel : 03-2696 7351
Fax: 03-2692 7010
E-mail : DrAshaari@jkr.gov.my / AbHamid@jkr.gov.my
(Call for Papers - before 1 May 2006)

28 - 30 August 2006
INTERNATIONAL CONFERENCE ON ENERGY AND ENVIRONMENT 2006 (ICEE2006)
Venue : Universiti Tenaga Nasional, Kajang, Selangor
Organiser : UNITEN
E-mail : icee2006@uniten.edu.my
Website : http://www.uniten.edu.my/ICEE2006
(Call for Papers - before 15 February 2006)

IEM Branches

IEM SOUTHERN BRANCH
5 - 6 MAY 2006
Time: 8.30 a.m. - 6.30 p.m.
2-Day Technical Course on "Geotechnical Engineering 2006"
Crystal Crown, Johor Baharu

IEM SABAH BRANCH
Graduates and Students Section
19 - 20 MAY 2006
Time: 8.30 a.m. - 5.00 p.m.
2-Day Course on "Understanding Construction Contracts"
Promenade Hotel, Kota Kinabalu, Sabah

ANNUAL DINNER AND AGM OF BRANCHES YEAR 2006

AGM and Annual Dinner	Negeri Sembilan Branch	29 Apr 06
Annual Dinner	Miri Branch	20 May 06
AGM	Southern Branch	24 Jun 06
Annual dinner	Southern Branch	1 Jul 06
AGM and Annual Dinner	Perak Branch	July 06
AGM	Miri Branch	31 Oct 06
AGM	Sabah Branch	4 Nov 06
AGM and Annual Dinner	Penang Branch	22 Nov 06
Annual Dinner	Sabah Branch	9 Dec 06
AGM and Annual Dinner	Kedah/Perlis Branch	Dec 06
AGM and Annual Dinner	Sarawak Branch	Dec 06
AGM and Annual Dinner	Terengganu Branch	Dec 06
AGM and Annual Dinner	Melaka Branch	Dec 06
AGM and Annual Dinner	Eastern Branch	TBA

001-008·blue pages 4/06 3/16/06 12:14 PM Page 3

Donated by ITSIG

THE BUSINESS AND ECONOMICS OF LINUX AND OPEN SOURCE
MARTIN FINK / PRENTICE HALL
682.324 / 004750

This book covers every step of the Linux and open source business lifecycle, and every crucial issue, form licensing to collaborating with the open source community of developers, coverage include: -

- assessing the costs, benefits, and risks of pursuing Linux an open source initiatives
- open source licensing: avoiding the minefields
- managing Linux and open source projects within your company
- Assessing the size, breadth, and capabilities of the open source community
- Building strong, positive, synergistic relationship with external open source communities
- The crucial role of Linux standards
- Integration, development, deployment, migration, coexistence, support, and training
- Understanding the difference between the Linux kernel and the Linux operating system
- Understanding and choosing Linux distributions
- How the open source paradigm impacts commercial software developers
- Open source business models: what it takes to make a profit form open source technology
- Applying the open source development methodology in a corporate setting

Donated by Project Management Technical Division

PREPARING FOR THE PROJECT MANAGEMENT PROFESSIONAL (PMP) CERTIFICATION EXAM – 3RD EDITION
MICHAEL W. NEWEL / AMACOM
658.4 / 004717

In order to get through the Project Management Professional (PMP) Certification Exam with flying colors, you need a truly superior test preparation tool. Completely update to reflect the most recent version of the test, the new third edition of Preparing for the Project Management Professional (PMP) Certification Exam leaves no stone unturned in getting you ready for every competency area covered on the exam.

In addition, you'll find new material on subjects including: -

- program management
- portfolio management
- project environment
- organisational environment
- project management offices
- process groups

WASTE TREATMENT AND DISPOSAL – ISSUES IN ENVIRONMENTAL SCIENCE AND TECHNOLOGY 3
RE HESTER AND RM HARRISON / THE ROYAL SICIETY OF CHEMISTRY
628.16 / 04724

Waste Treatment and Disposal examines the environmental impact of sewage and industrial effluent treatment on inland and coastal waters, in the atmosphere and on land. It also looks into current practice in the design, engineering, operation and control of landfill sites, and the effect of changes in regulatory policy.

A wide range of waste management practices result in atmospheric discharges. Waste Treatment and Disposal reviews the localized impacts and mitigation of these discharges, and the regulatory framework within which waste management has to operate Waste Treatment and Disposal covers the general and technical issues facing the materials recycling industry; looks into the factors affecting deep underground storage of radioactive fuel waste produced by nuclear reactors; and provides data from a number of case studies in cost-benefit analysis, demonstrating the utility of a consistent economic theory of waste management.

SIMPLE, LOW-COST ELECTRONICS PROJECT
FRED BLECHMAN / NEWNES
621.386 / 4720

In this book, he has collected 22 terrific circuit designs that let you get a thorough understanding of how "realworld" electronics really works. Fred will be your "hands-on" guide as you build such devices as:

- a talking alarm clock
- inductance and semiconductor testers
- a variable frequency audio oscillator
- voltmeter and multimeter projects
- a photo-electric counter
- telephone circuits such as a recording beeper, a line analyser, and remote FM transmitter

ISO 14001 ENVIRONMENTAL CERTIFICATION STEP BY STEP
A. J. EDWARDS / ELSERVIER
658.408 / 004719

This revised edition has been updated to include the latest developments in the interpretation of the standard, plus changes in related legislation such as the Control of Pollution Regulations, Pollution Prevention and Control Regulations, Landfill Charges and the EU's Eco-Management and Audit Scheme (EMAS).
In addition, the new ISO 9011: 2002 standard for auditing is reflected in the book, as is the recently published approach to a phased implementation of ISO 14001. The appendices containing helpful reference material have been comprehensively updated.

TELEPHONE PROJECTS FOR ELECTRONICS EXPERIMENTERS: DESIGN, BUILD AND TEST YOUR OWN DEVICES
CARL J. BERGQUIST, PROMPT PUBLICATION
621.386 / 004751

Telephony is a remarkable technology that has grown to be an indispensable part of our culture. The telephone lines represent an "electronic interstate" system that allows us (and our computers) to communicate in a variety of ways. Since deregulation of the industry in the late 70s, a whole new industry has blossomed, flooding the market with an assortment of novel devices and supplying us hobbyists with a fresh arena for ideas.

NOTE
IEM Library is open from
9.00 a.m. to 6.00 p.m. (Monday - Friday)
9.00 a.m. to 4.00 p.m. (Every Saturday)

Book Recommendation Form

With reference to the above subject, I would like to recommend the following books for your consideration with the view of purchasing them for the IEM Library.

Title of the book : _____

Author (s) : _____

Publisher : _____ Price : _____

Year published : _____ Edition : _____

Description / Content of the book : _____

_____

(attach more detail if required)

Proposer : _____ Membership No. / Grade : _____

Tel. Number : _____ Signature : _____

001-008·blue pages 4/06 3/16/06 12:14 PM Page 4

Talk on "Shear Strength and Structural Stability of Constructions in Soft Ground"

By: Ir. Liew Shaw Shong

This talk was held at IEM Conference Hall, Bangunan Ingenieur, Petaling Jaya with overwhelming number of 250 registered participants. A technical paper elaborated on this topic has been published in Malaysia Geotechnical Conference 2004 (Yee, 2004). Those who are interested on the content of this technical talk can refer to the abovementioned literature.

After the presentation, there were very active discussions between the audiences and the speaker. The talk was successfully adjourned at 7:00pm. ■

References:

Yee T. S. (2004), "Shear Strength and Structural Stability of Constructions in Soft Ground", Proceedings of the Malaysian Geotechnical Conference 2004, 16-18 March 2004, Sheraton Subang, Selangor, Malaysia, pp. 475-495.

Malam JURUTERA / Engineer's Nite 2006

PERSATUAN GEOLOGI MALAYSIA
GEOLOGICAL SOCIETY OF MALAYSIA
c/o Department of Geology, University of Malaya, 50603 Kuala Lumpur, Malaysia
Tel: (603) 7957 7036 Fax: (603) 7956 3900 E-mail: geologi@po.jaring.my

(In collaboration with IEM and IGM)

To All Members.

"Malam Jurutera / Engineers Nite 2006"
Wed, 21st June 2006, Dept. of Geology, Univ. of Malaya, KL.

5.00 – 5.30 p.m. :	Tea
5.30 – 6.00 p.m. :	Deep Soil Mixing. Ir. Yee Yew Weng (Keller)
6.00 – 6.30 p.m. :	Pile Testing. Ir. Chong Mun Fai (Dynapile)
6.30 – 7.00 p.m. :	Basement Construction. Ir. Dr. Chin Yaw Ming (Consultant)

All members and friends are cordially invited to this event.

Tan Boon Kong
Chairman, Working Group on Engineering Geology & Hydrogeology

Talk on "Innovation and Economies in Geotechnical Design Through Numerical Modelling"

By : Ir. Tan Yean Chin

Geotechnical design often involves complex soil-structure interaction problems. Although there are many design techniques available but full numerical modelling provides the most adequate solution satisfying all the necessary conditions of equilibrium, compatibility, constitutive behaviour of the soils and boundary conditions of forces and displacements. Dr Yeow presented state-of-the-art numerical geotechnical modelling using computer. He demonstrated the application of two-dimensional (2-D) and three-dimensional (3-D) numerical modelling including its potential, advantages and caution notes on the usage. From this talk, it is evident that investing in such techniques starting from as early as scheme design stage to detailed design and even construction validation in order to obtain safe and economical designs, is worthwhile. However, the user should be wary that the reliability of the results obtained from computer analyses rely solely on the correctness of the input parameters, the modelling technique, limitations of the software and also the capability of the user to properly interpret the results. Therefore, prior to relying on this technique for design, proper training and experiences are needed. ■

001-008·blue pages 4/06 3/16/06 12:14 PM Page 5

Talk on "Latest Energy Efficient Feature – The Patent Pending Circuit by Circuit (CBC) Coil Control in Chilled Water Systems"

By: Ir. Ng Yong Kong, P.Eng., MIEM

George Viczena, a Hungarian born Australian, is the Technical Advisor of CBC Engineering. He has more than 35 years experience in the HVAC Controls and Systems Design business. Mr. Viczena invented and patented the innovative Circuit By Circuit (CBC) Coil Control (used in Chilled Water AHU-s). CBC is the first of its kind in the world.

He started by highlighting the psychrometrics of a Constant Air Volume AHU, where conventionally controlled cooling coils reduce water flow through all coil circuits in response to reductions in Sensible Load. This traditional practice results in greatly reduced Latent Cooling (Dehumidification) at part load due to the elevated coil surface temperature. At part load, the coil might possibly be able to match sensible cooling demand (until reduced Water Flow approaches Laminar Flow conditions), but the degraded Sensible Heat Factor results in much higher space humidity, unless some form of reheat is utilised. However, with CBC control, the coil can deliver sensible and latent cooling down to low load levels at near constant Sensible Heat Factor, without the use of expensive reheat.

Mr. Viczena then talked about the psychrometric performance of Air Handlers using Face and Bypass or VAV devices. He illustrated that a simple CAV AHU with CBC Control performs comparably with AHU's equipped with Face and Bypass or VAV, but without the 'first cost', complexity, and maintenance penalties associated with the latter two systems.

Some modern systems use "run-around coils" or the "heat pipe". Though these systems are deemed to be energy efficient, the extra coils impose additional resistance to the air flow, thus the extra supply fan energy offsets the gains. Extra coils increase first cost.

The key element of the CBC Coil is a differential pressure - operated piston in the coil supply pipe header. At part load, the piston directs the chilled water flow only to coil circuits below its position; thus, the area around the active circuits is maintained at design surface temperature. Air traversing this active coil portion is cooled and de-humidified as per Design Specifications. In circuits above the piston there is no chilled water flow, thus no conditioning of the "bypassed air" takes place here. The overall result is constant circuit fluid flow velocity and constant fluid temperature rise at part load.

Also the partial load latent capacity of the coil is maintained in proportion to sensible load.

A near constant sensible heat factor can be obtained. One can see applications in both comfort and close control process cooling for new designs and retrofit installations.

Mr. Viczena further discussed in detail about coil selection and the typical coil performance of a cooling coil at partial load. According to "tradition", most systems are designed for a 10 deg. F chilled water temperature rise at full/design load. However, even in the tropics, our buildings operate most of the time in the 70 – 80% load range, at an actual chilled water temperature rise of 20 – 30 deg. F. The fact is, the coils we have selected almost always operate at more than 10 deg. F dT, but we did not consider partial load operation, simply because it is a constantly changing variable, and nearly impossible to predict accurately.

CBC Coil Control may be used in a "conventional" 10 deg. F temperature rise system, but it is most suitable for high temperature rise, low pressure drop chilled water system applications, since there is no increase in chilled water temperature rise (and constant coil circuit flow velocity is maintained) at part load. CBC eliminates the "unpredictability". Laminar flow is NEVER a worry.

Thus coils may be selected with high delta T and Low delta P at full load, with assured partial load performance. The result is reduced water flow rate, and lower pump head, also at near constant sensible heat factor, across the whole sensible load range. Not immediately obvious are the almost certain "first-cost savings" opportunities : smaller pipes, valves, pumps, fittings. It's a "Win-Win-Win" situation.

Mr. Viczena concluded by summarising the benefits of CBC :

i) Reduced first cost.
ii) Reduced operating cost.
iii) Improved partial load RH%, thus improved comfort.
iv) CBC is a Zero Maintenance device. ■

Summary of talk presented by George Viczena from CBC Engineering Sdn Bhd on 14 November 2005

001-008·blue pages 4/06 3/16/06 12:14 PM Page 6

IBU PEJABAT,
JABATAN BOMBA DAN PENYELAMAT,
MALAYSIA,
Headquarters,
Fire and Rescue Department, Malaysia,
Lebuh Wawasan, Precinct 7,
62250 PUTRAJAYA.

Telefon: Putrajaya : 603-88880036/39/40
Ketua Pengarah : 603-88880021
Facsimile : 603-88880842
Homepage: www.bomba.gov.my
E-mail: pro@bomba.gov.my

Kepada Semua Pengeluar Konduit Elektrik (Conduit for Electrical Installation)

Tuan,

KEPERLUAN KELULUSAN/PERAKUAN BAGI KONDUIT ELEKTRIK 'ELECTRICAL CONDUIT' (UNTUK PEMASANGAN ELEKTRIK DOMESTIK/BIASA DAN BUKAN SEBAGAI *FIRE RESISTANT CABLE*)

Saya dengan hormatnya merujuk kepada perkara di atas berkaitan.

2. Dimakllumkan bahawa berkuatkuasa dari tarikh surat ini dikeluarkan, semua kelulusan/perakuan jabatan Bomba dan Penyelamat, Malaysia (JBPM) ke atas Konduit Elektrik (Conduit for Electrical Installation) adalah dibatalkan dan tidak lagi terpakai.

3. Sehubungan itu, konduit elektrik/'electrical conduit' (yang digunakan bagi maksud selain daripada pendawaian sistem perlindungan kebakaran dalam bangunan) adalah tidak perlu lagi mendapatkan perakuan/kelulusan khusus daripada Jabatan ini.

4. Keputusan ini diambil setelah menpertimbangkan beberapa aspek dan kriteria seperti berikut:

   4.1 Konduit elektrik jenis ini hanya digunakan sebagai pendawaian elektrik biasa dan tidak melibatkan sistem perlindungan kebakaran dalam bangunan.
   4.2 Tiadanya perundangan khusus untuk Jabatan ini mengawal pemasangannya termasuk mengklasifikasi bahan dan syarat kegunaannya.
   4.3 Terdapatnya Agensi Kerajaan lain yang lebih bersesuaian dalam mengawal pendawaian elektrik biasa ke premis-premis (ruman/pejabat/kilang/bangunan komersil dan sebagainya.)

5. Walaubagaimanapun, adalah disyorkan agar sebarang penggunaan konduit elektrik agar mengujinya terlebih dahulu di SIRIM berdasarkan piawaian BS EN50086-2-1:1996 (atau setanding), termasuk mendapatkan Persijilan Barangan SIRIM (Skim SIRIM.)

6. Sebarang pemasangan konduit elektrik secara cuai tanpa mengutamakan kualiti barangan boleh memendekkan jangka hayat/ketahanan pendawaian elektrik di premis tersebut, termasuk mendatangkan bahaya terjadinya kebakaran.

7. Perhatian pihak tuan dalam perkara di atas dan serta menyebarkannya kepada pihak-pihak berkenaan, amatlah dihargai.

Sekian , terima kasih.

'Berkhidmat Untuk Negara'

Saya yang menurut perintah,

(DATO' WAN MOHD. NOR BIN HJ. IBRAHIM)
Timbalan Ketua Pengarah (Pengurusan),
b.p. Ketua Pengarah
Jabatan Bomba dan Penyelamat,
Malaysia.

The Introduction of AER Life Membership

NOTING that the ASEAN Federation of Engineering Organisation (AFEO) founded in 1980 brings together national engineering organisations from ASEAN Countries as national members

RECALLING

(a) That the Concept of ASEAN Engineers was introduced to the AFEO Governing Board. Meeting in Thailand in November 1997.

(b) That at the outset of AFEO Governing Board Meeting in the Philippines in November 1998, the ASEAN Engineers Register was established with the following objectives:
- To secure the recognition of ASEAN Engineering titles and to protect those titles, in order to facilitate the freedom of engineers to move and practice within and outside ASEAN;
- To safeguard and promote the professional interests of engineers;
- To foster high standards of formation and professional practice and regularly review them;
- To promote cultural and professional links among members of the engineering profession within ASEAN;
- To enhance the wealth of ASEAN countries.

(c) That a candidate possessing a recognised engineering degree from his home country, being a full-time member of the Engineering or Technical Associations and licensed to practice in his home country, and having post-graduate working experience in an engineering environment of less than 7 years, is eligible to be a member of AER Register.

(d) That upon payment of USD 10 entrance fee and USD 30 annual fee, an eligible candidate can be registered as a member of AER upon application.

CONSIDERING

(a) That AER Commission meeting in Phnom Penh, Cambodia in April 2005 decided to reduce the annual subscription of members with effect from 2005 to:
   (i) USD 10 for Cambodia, Laos, Myanmar and Vietnam (CLMV);
   (ii) USD 20 for other six countries, namely, Brunei, Indonesia, Malaysia, Philippines, Singapore and Thailand and payment to be made every 3 years.

It was DELIBERATED and suggested that the Life Membership (LM) may be established with any or all of the following:

(a) An eligible candidate pay USD 200 to become Life Member (LM) of AER;
(b) If a member has paid the annual subscription for the past few years, he could top up the balance to attain USD 200 to become a life member;
(c) If a member has been paying annual subscription totaling USD 200; he could be considered for conversion to life membership.

It is RECOMMENDED that a category of AER membership known as Life Member of AER be introduced with effect from 2006.

So approved by the AFEO Board at CAFEO 23, on this day: the 8th of December 2005, Don Chan Palace Hotel, Vientiane, Lao PDR. ■

Geotechnical Engineering Technical Division

REPORT

Talk on "High Strain Dynamic Pile Testing – Why Not?"

By : Sdr. Chong Mun Fai

The talk on "High Strain Dynamic Pile Testing – Why Not?" was given by Mr. Chong Mun Fai to an audience of about 120 attendees on 27 September 2005.

In the talk, the speaker highlighted the Pile Driving Analyser (PDA) as being more than a capacity or integrity measuring equipment. Currently, engineers in Malaysia are more inclined to specify High Strain Dynamic Pile Testing (HSDPT) as a QA/QC test than to harness the full capabilities of the test equipment. The overriding concern to the engineer seemed to be whether the tested piles have achieved the required load and that the integrity of the pile is good.

However, the PDA is designed to do more than that. He further mentioned that to maximise the full capability of the PDA equipment, continuous pile monitoring should be carried out in all large project sites so that the driving behaviour in terms of driving stresses (compressive and tensile), hammer efficiency (which relates to pile set criteria) and also pile capacity of the piles during pile installation are computed. The pile integrity during the entire stage of pile driving is also computed and recommendations can be made later on the proper pile driving criteria to be given to the piling contractor to ensure that the piles are installed correctly. ■