

To All Members,

Date: 10 January 2011

CANDIDATES APPROVED TO SIT FOR YEAR 2011 PROFESSIONAL INTERVIEW

The following candidates have been approved to sit for the Professional Interview for 2011.

In accordance with Bylaws 3.9, the undermentioned names are published as having applied for membership of the Institution, subject to passing the year 2011 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 Honorary Secretary. Such communication should be lodged *within a month* from the date of this publication.

Ir. Prof. Dr Lee Teang Shui
Honorary Secretary,
The Institution of Engineers, Malaysia

NEW APPLICANTS		NEW APPLICANTS		TRANSFER APPLICANTS			
Name	Qualifications	Name	Qualifications	Mem No.	Name	Qualifications	
BUILDING SERVICES ENGINEERING		CONTROL AND INSTRUMENTATION ENGINEERING		20187	TE CHEI YEAN	BE HONS (UTM) (CIVIL, 2001)	
NORSUZANAWATI BINTI HJ. NOR @ HJ. NOA	BE HONS (UMIST) (BUILDING SERVICES, 1996)	NG CHIN GUAN, JASON	BE HONS (UTP) (ELECTRICAL & ELECTRONICS, 2005)	18806	TEO NGUONG LEONG	ME (UTM) (CIVIL & STRUCTURE, 2007)	
CHEMICAL ENGINEERING		PRAMOD KUMAR KARUNAKARAN	BSc HONS (LEEDS POLYTECH, CNA A) (COMMUNICATION, 1983)	38731	THILLAPPAN AL SUBRAMANIAM	BE HONS (RMIT) (CIVIL, 1998)	
ZULKERNAIN BIN MAT ADAM	BE HONS (UM) (CHEMICAL, 1994)	MECHANICAL ENGINEERING		32613	TIONG KAI SONG	BE HONS (UTM) (CIVIL, 2006)	
CIVIL ENGINEERING		AKMAL HISHAM BIN HAMZAH	BE HONS (MANCHESTER) (MECHANICAL, 1998)	29104	WONG MUN FAI	BE HONS (PLYMOUTH) (CIVIL, 2002)	
ABANG AFFENDY BIN ABANG SEPUAN	BE HONS (MALAYA) (CIVIL, 2000)	GAN CHEE HAU	BE (SHEFFIELD) (MECHANICAL, 2002)	40008	WOO JUN JIANG	BE HONS (UKM) (CIVIL & STRUCTURAL, 2005)	
ABDUL HANIF BIN KAMALUDIN	MSc (UTM) (BUILDING, 2010)	HOR KOK LUEN	BE HONS (USM) (MECHANICAL, 2001)	ELECTRICAL ENGINEERING			
KAMARUDIN BIN SALEH	BE HONS (UTM) (CIVIL, 1996)	TRANSFER APPLICANTS		28830	CHENG KAM HON	BE HONS (UTM) (ELECTRICAL, 2003)	
LAU BENG KIM	BE HONS (UKM) (CIVIL & ENVIRONMENTAL, 2002)	Mem No.	Name	18282	KOH SIONG LEE	BSc (MISSISSIPPI STATE) (ELECTRICAL, 1993)	
MOHAMAD ADHAR BIN YAHAYA	BE HONS (UTM) (CIVIL, 2003)	38848	MAK KAH WEE	29094	MOHD HASANUDIN BIN	BE HONS (UTM) (ELECTRICAL, 2005)	
MOHD ADIB BIN PAHORUDIN	BE HONS (UTM) (CIVIL, 2003)		HAMIDION	28978	MOHD FAIRUZ BIN ABDUL HAMID	BE HONS (UTM) (ELECTRICAL, 2002)	
RAJA ROSLAN BIN RAJA BAHAROM SHAH	BSc (PLYMOUTH POLYTECHNIC, CNA A) (CIVIL, 1980)	33766	SIOW JAT SHERN	20335	TOH LEONG SOON	ME (UTM) (ELECTRICAL-POWER, 2008)	
SITI RAFIZAH BINTI MOHD KASIRAN	BE HONS (UKM) (CIVIL & STRUCTURAL, 2003)	33766	SIOW JAT SHERN			BE HONS (MMU) (ELECTRICAL, 2007)	
WAN MOHD AZIMAN BIN WAN IBRAHIM	BE HONS (UPM) (CIVIL, 1998)	20335	TOH LEONG SOON			BE HONS (UTM) (ELECTRICAL, 2003)	
YAP LEAN KENT	BE HONS (USM) (CIVIL, 2002)	CONTROL AND INSTRUMENTATION ENGINEERING			38664	ABDUL MALEK BIN CHE SOH	BE HONS (USM) (ELECTRICAL & ELECTRONIC, 2002)
ZULKIFLI BIN SAMSUDIN	BE HONS (UTM) (CIVIL, 1998)	CHEMICAL ENGINEERING			27503	LEE SIEW CHUN	BE HONS (UTM) (ELECTRICAL - CONTROL & INSTRUMENTATION, 2002)
ELECTRICAL ENGINEERING		36256	ABDUL MALEK BIN ABDUL KADIR	BE HONS (UTM) (CHEMICAL, 2000)	MECHANICAL ENGINEERING		
LIM KEW TEE	BSc (TENNESSEE) (ELECTRICAL, 1993)	12985	AZMI BIN IBRAHIM	BSc (TOLEDO) (CIVIL, 1986)	38362	CALVIN CHIN YEN CHIH	BE HONS (UTM) (MECHANICAL, 2006)
NOOR MOHD FADZLI BIN OTHMAN	BE HONS (ADELAIDE) (ELECTRICAL & ELECTRONIC, 2005)	22928	CHONG KEN MIN	BE HONS (PORTSMOUTH) (CIVIL, 2001)	37997	MOHD AZMI BIN HASHIM	BE HONS (UTM) (MECHANICAL, 2003)
SYAFRAH BINTI ABD JALIL	BE HONS (UNITEEN) (ELECTRICAL POWER, 2007)	21803	GAN MING ONG	ME (UTM) (CIVIL, 2005)	21912	MOHD YUSRIAL BIN	BSc (MICHIGAN) (MECHANICAL, 2000)
YUSOF BIN SARNAMI	BE HONS (UTM) (ELECTRICAL, 1999)	33940	MOHD FAISAL BIN NORDIN @ ISHAK	BE HONS (USM) (CIVIL, 2004)		MOHD YUSOF	
ELECTRONIC ENGINEERING		41117	MOHD FAZLI BIN MOKHTARUDDIN	BE HONS (UTM) (CIVIL, 2003)			
AHMAD SAZREE BIN ABD AZIZ	BSc (PURDUE) (ELECTRICAL, 1998)	41103	MOHD NAJIB BIN ABDULLAH	BE HONS (UTM) (CIVIL, 2004)			
		28047	MOHD ZAMRY BIN ZAKARIAH	BE HONS (UTM) (CIVIL, 2005)			
		24519	OI CHOY HOONG	BE HONS (UTM) (CIVIL, 2003)			
		28204	SAFFUAN BIN WAN AHMAD	BE HONS (UTM) (CIVIL, 2007)			
		37243	SO WEE SIANG	BE HONS (UTM) (CIVIL, 2003)			

LATEST UPDATE!

CONTRIBUTION TO WISMA IEM BUILDING FUND

RM1,579,307.20 from IEM Members and Committees
RM361,502.00 from Private Organisations

TOTAL
RM1,940,809.20

(ANOTHER RM10,209,190.80 IS NEEDED)

IEM wishes to take this opportunity to thank all members who have contributed
and would like to appeal for support from members who
have not yet contributed

HELP US TO PROVIDE BETTER SERVICES TO YOU AND TO THE FUTURE GENERATION

DONATION LIST TO THE WISMA IEM BUILDING FUND

34th
Announcement

The Institution would like to thank all contributors for donating towards the Wisma IEM Building Fund. Members and readers who wish to donate can do so by downloading the form from the IEM website at <http://www.MylEM.org.my> or contact the IEM Secretariat at +603-7968 4001/4025 for more information. The list of the contributors as at 31 December 2010 are shown as in table.

NO.	MEMBERSHIP NO.	DETAILS
1		INDAH WATER KONSORTIUM SDN BHD
2	M05043	NG YONG KONG
3	M34423	ROSDI BIN JUSOH
4	M20491	SINASAMY SUBRAMANIAM

ANNOUNCEMENT

ITEM DIARY OF EVENTS

Kindly note that the scheduled events below are subject to change. Please visit the IEM website at www.MylEM.org.my for more information on the upcoming events.

Environmental Engineering Technical Division

23 February 2011

TALK ON "LIFE AFTER TIN MINING AND QUARRYING: THE SUNWAY EXPERIENCE"

Time: 5.30 p.m. to 7.30 p.m.

Venue: Tan Sri Prof. Chin Fung Kee Auditorium, Wisma IEM

Speaker: Mr Phang Koon Tuck
(Invitation to register)

Agricultural and Food Engineering Technical Division

25 February 2011

AUTOMOTIVE INDUSTRY EFFLUENT: TREATMENT AND RE-USE

Time: 5.30 p.m. to 7.30 p.m.

Venue: TUS Lecture Room, 2nd Floor, Wisma IEM

Speaker: Mr. Tanjore Swaminathan
(Invitation to register)

Chemical Engineering Technical Division

28 February 2011

TALK ON 'MAXIMISING RETENTION OF BIO-ACTIVE INGREDIENTS IN DEHYDRATED PRODUCTS'

Time: 5.30 p.m. to 7.30 p.m.

Venue: TUS Lecture Room, 2nd Floor, Wisma IEM

Speaker: Ir. Assoc. Prof. Dr Law Chung Lim
(Invitation to register)

Civil and Structural Engineering Technical Division

28 February 2011

ONE DAY COURSE ON STRUT AND THE MODELLING OF CONCRETE STRUCTURES

Time: 9.00 a.m. to 5.30 p.m.

Venue: To be confirmed

Fees: IEM Student Member - RM200
IEM Graduate Member - RM300
IEM Corporate Member - RM400
Non IEM Member - RM800
(Invitation to register)

Building Services Technical Division

1-2 March 2011

TWO DAY COURSE ON "FIRE CONTROL CONCEPTS AND DESIGN OF ACTIVE WET SYSTEM"

Time: 9.00 a.m. to 5.30 p.m.

Venue: Tan Sri Prof. Chin Fung Kee Auditorium, Wisma IEM

Speaker: Ir. Gary Lim Eng Hwa
Fees: IEM Member - RM650
Non IEM Member - RM850
(Invitation to register)

Sub-Committee on Women Engineers

5 March 2011

HALF DAY WORKSHOP ON 'FLOWER ARRANGEMENT-HANDS ON THE ESSENCE OF FLOWER'

Time: 9.00 a.m. to 1.00 p.m.

Venue: C&S Room, 2nd Floor, Wisma IEM

Speaker: Miss Tan Bee Lee and Mr Lim Boon Yan
Fees: IEM Member - RM80
Non IEM Member - RM100
(Invitation to register)

Engineering Education Technical Division

21 March 2011

ONE DAY WORKSHOP "PREPARING EAC SELF ASSESSMENT REPORT"

Time: 8.30 a.m. to 5.30 p.m.

Venue: Tan Sri Prof. Chin Fung Kee Auditorium, Wisma IEM

Speaker: Ir. Prof. Dr Ramesh Singh
Fees: IEM Member - RM370
Non IEM Member - RM670
(Invitation to register)

ITEM MAJOR EVENTS

1-3 March 2011

TUNNELING AND TRENCHLESS TECHNOLOGY CONFERENCE AND EXHIBITION 2011

Venue: Grand Dorsett Subang Jaya (formerly known as Sheraton Subang Hotel)

Organised by: Tunneling and Underground Space Technical Division
(Invitation to register)

19 March 2011

OPENING CEREMONY OF IEM ENGINEERING WEEK 2011 (EW2011) AND FORUM ON "MALAYSIA ENGINEERING STARS"

Venue: Matrade Hall, Matrade Exhibition and Convention Centre, Level 3, Jalan Khidmat Usaha, Kuala Lumpur

Time: 9.00 a.m. to 5.00 p.m.

Fees: IEM Member - RM80
Non IEM Member - RM150
Graduate and Student Member - RM30
(Invitation to register)

2 April 2011

IEM OPENING BALLOT DAY

Venue: GETD Board Room, Bangunan Ingenieur, Petaling Jaya, Selangor
(IEM office will be closed for this day)

16 April 2011

IEM ANNUAL GENERAL MEETING

Venue: Wisma IEM, Petaling Jaya, Selangor
Time: 9.00 a.m. to 1.00 p.m.
(Invitation to register)

IEM ANNUAL DINNER

Venue: IOI Marriot Hotel, Putrajaya
Time: 7.30 p.m. to 10.30 p.m.
Fee: RM300.00 per person
(Invitation to register)

12-14 July 2011

BROWNFIELD ASIA 2011

International Conference on Remediation and Management of Contaminated Land: Focus on Asia (First circular and call for paper)
Venue: Selangor
(Call for submission of abstract)

27-30 November 2011

29TH CONFERENCE OF ASEAN FEDERATION OF ENGINEERING ORGANISATIONS ON SUSTAINABLE URBANISATION: ENGINEERING CHALLENGES AND OPPORTUNITIES (CAFEU 29)

Venue: The Rizqun International Hotel, Brunei Darussalam
(Call for submission of abstracts by 15 February 2011)

IMPORTANT NOTICES

RENEWAL MEMBERSHIP REMINDER 2011

Effective from **1 August 2010**, defaulting members in arrears of subscription will be considered as suspended members with all benefits removed. Consequently, these members will not be allowed to attend free talks and will be charged the non-member's fee at the entrance. They will also not be entitled to register for visits/courses/seminars/conferences and any paid event of the IEM at members' registration fee.

To avoid this, all IEM members are advised to settle their annual subscription on time and the dateline for payment each year is on 31 January.

Thank you.

By the Executive Committee of the IEM Council

CONFERENCES & SEMINARS

For more information, kindly contact the organiser.

5-7 April 2011

MALAYSIA IBS INTERNATIONAL EXHIBITION 2011 (MIIE 2011): IBS INTEGRATION FOR GREEN TECHNOLOGY

Venue: CIDB Convention Centre, KL
Tel: +603 4042 8880
Email: miell@cidb.gov.my/ecidbh@cidb.gov.my
Website: www.cidb.gov.my/miie2011

19-20 July 2011

3RD ASIA SYMPOSIUM ON "QUALITY ELECTRONIC DESIGN" ASQED 2011

Venue: Crown Plaza Mutiara, Kuala Lumpur
Website: www.asqed.com
(Call for paper. Deadline 23 April 2011)

27-30 November 2011

CAFEU 29

Venue: The Rizqun International Hotel
Tel/Fax: +673 238 4021
Email: cafeu29.brunei@gmail.com
Website: www.puja-brunei.org
(Invitation to register)

News from Standing Committee on Welfare and Service Matters

IEM BOARD AND PANEL ADVERTISEMENT AT WISMA IEM

It gives us great pleasure to notify you of a new value added service that IEM will be providing to our members as well as companies involved with the supply of products and services related to the engineering profession. As you may be aware, the new IEM building, Wisma IEM, is now the venue for all IEM activities such as talks, seminars, courses, workshops, etc.

With a nominal fee, we are offering you the opportunity to introduce your products and services to fellow engineers by putting up advertisements at our advertisement boards/panels or electronic board. Check out our offer in the IEM website, www.MYIEM.org.my. Feel free to contact our IEM Secretariat staff at 03-79684021 (Tarmizi) for further information.

IEM JOB VACANCY ADVERTISEMENT

Advertise your vacancies on one of the most prestigious engineering website in Malaysia. Hire qualified candidates!

Looking for Engineers?

Cheaper than using traditional search firms or newspaper!

Over 20,000 Engineers exposed to your job posting

Only minimum of RM50 per job advertised for IEM members and RM100 for non-members

Job postings appear for 30 days in website compared to 1 day for newspaper

Approximately 300 website hits per day

Please be informed that IEM provides job vacancy advertisement through the IEM Website and Notice Board to its members and non-members who are looking for engineers on a full time/contract or on part-time basis to fill job vacancies in their respective companies. The 'Job Vacancy Advertisement Form' and 'Its Terms and Conditions' are available at the IEM website, <http://www.MYIEM.org.my> or you may contact En. Mizi, the IEM Secretariat at +603 7968 4001/2 for more details.

Job seekers can search for their desired employment in the IEM Website under the 'Job Gallery' section for the latest job vacancy advertisements.

Thank you and best regards,

Chairman
Standing Committee on Welfare and Service Matters
The Institution of Engineers, Malaysia

ERRATA

Note: Some information on this paper were superseded with the earlier version in Paper series on Structural Eurocodes which was printed on pages 30-33 of the July 2010 issue.

TECHNICAL COMMITTEE IEM-SWO FOR STANDARDS IN DESIGN OF CONCRETE STRUCTURES BEHAVIOUR STUDY OF BAND BEAMS STIFFNESS

Prepared by Working Group (IEM-SWO) No. 3 (Mar' 09)



Ir. MC Hee Ir. EP Lim Ir. TT Seng

The following Notation is used (refer to ACI 318-95 Part 5 Chapter 13 – two-way slab)

I_b = moment of inertia about centroidal axis of gross section of flange beam as defined in Figure 4 (Clause 13.2.4 of ACI 318-95)

I_s = moment of inertia about centroidal axis of gross section of slab = $h^3/12$ times width of slab defined in notations of α

E_{cb} = modulus of elasticity of beam concrete

E_{cs} = modulus of elasticity of slab concrete

l_1 = length of span in direction that moments are being determined, measured center-to-center of supports

l_2 = length of span transverse to l_1 , measured center-to-center of supports.

α = ratio of flexural rigidities of beam section to flexural rigidities of a width of slab bounded laterally by centerlines of adjacent panels (if any) on each side of the beam = $E_{cb} I_b / E_{cs} I_s$

α_1 = α in the direction of l_1

A beam can be considered stiff (when $\alpha_1 l_2 / l_1 \geq 1$) or flexible (when $\alpha_1 l_2 / l_1 < 1$).

The computation of load transfer onto the beams can be deduced from clause 13.6.8.1 and 13.6.8.2 of ACI-318-95

For horizontal beam B2; $l_1 = 6m$, $l_2 = 12m$

Assume $E_{cs} = E_{cb}$

$$b_w = 1.0 \text{ m} \quad I_b = K \frac{b_w h^3}{12}$$

$$h = 0.35 \text{ m}$$

$$K = 1.15 \text{ (to allow for flange beam action)}$$

$$I_b = 1.15 \times \frac{1 \times 0.35^3}{12} = 4.1 \times 10^{-3} \text{ m}^4$$

$$I_s = \frac{1}{12} \times 12 \times 0.18^3 = 5.832 \times 10^{-3} \text{ m}^4$$

$$\alpha_1 = \frac{I_b}{I_s} = \frac{4.1 \times 10^{-3} \text{ m}^4}{5.832 \times 10^{-3} \text{ m}^4} = 0.7$$

$$\alpha_1 l_2 / l_1 = 0.7 \times \frac{12}{6} = 1.4 > 1.0$$

*Beam B2 can be considered as stiff beam

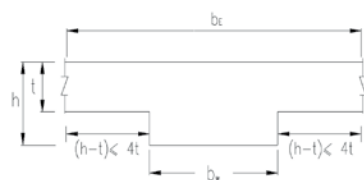


Figure 4 : Portion of slab to be included with the beam for computation of I_b

For vertical beam B1; $l_1 = 12m$, $l_2 = 6m$

$$b_w = 1.0 \text{ m} \quad I_b = K \frac{b_w h^3}{12}$$

$$h = 0.35 \text{ m}$$

$$K = 1.15 \text{ (to allow for flange beam action)}$$

$$I_b = 1.15 \times \frac{1 \times 0.35^3}{12} = 4.1 \times 10^{-3} \text{ m}^4$$

$$I_s = \frac{1 \times 6 \times 0.18^3}{12} = 2.92 \times 10^{-3} \text{ m}^4$$

$$\alpha_1 \frac{I_b}{I_s} = \frac{4.1 \times 10^{-3} \text{ m}^4}{2.92 \times 10^{-3} \text{ m}^4} = 1.4$$

*Hence flexible beam

ANNOUNCEMENT

MyIEM Portal – IEM is pleased to announce that members are now able to perform various payment transactions with IEM online using Maybank2U. Various transactions such as the renewal of annual subscriptions, payment of registration fee for events, etc, can be performed online. Kindly activate your first time login if you have not done so (First Time Login Activation) to enjoy better interaction with IEM via cyberspace.

GUIDE TO ONLINE PAYMENT

Online Membership Renewal via MyIEM Portal by Maybank2U (M2U) <http://www.MYIEM.org.my>

STEP 1 Go to www.MYIEM.org.my to activate the first time login (tutorial video provided).



STEP 2 After activation of the first time login, kindly proceed to login into your membership main menu.

STEP 3 Click on Renew Membership button/link.



STEP 4 Select Annual Subscription 2011 and fill in the amount for contribution/donation to the IEM Building, Benevolent Fund and Education Fund.



STEP 5 Double check the amount. If it is accurate, please click on the confirm button to proceed or else click the back button to adjust the amount.



STEP 6 Click on the M2U payment option to proceed.



STEP 7 A small M2U window login page will pop up. Please key in all your M2U login details to proceed.



STEP 8 After the M2U login is done, please click on the request for security TAC number which will be sent via SMS to your registered M2U mobile number. Key in the TAC number into the TAC column box and click confirm to perform the transaction. M2U system will then notify you whether the transaction is successful or not.



STEP 9 You may logout and close the pop up windows and go back to the MyIEM portal page where a successful message will be displayed and an online receipt will be emailed to your email address in IEM's record.