HONORARY SECRETARY'S REPORT

The following notes were extracted from decisions taken at the 439th meeting of the Executive Committee of the Council held on 14 September 2009 for the information of members.

Purchase of Shoplot for IEM Perak branch

The report from the Election Officer after the closing of ballots on 1 September 2009 indicated that 87.1% of the votes were in favour while 12.9% were against. As such, the majority of the members who voted had given their consent for a loan to be taken for the purchase of the Perak Branch shoplot. The Election Officer had also informed Excomm of a comment sent in by a member indicating that information provided was not sufficient for him to vote. The Secretariat was requested to take note of the comment and ensure that improvements would be made in future.

EU Grant

IEM had submitted an application for the EU Grant and IEM had been notified that our application for the Grant had cleared the first stage, i.e. administrative check.

There were five applications for the EU Lot 2: Outreach & Visibility Application, one was disqualified leaving 4 applications currently competing for the grant.

The grants would be awarded as follows:

Lot 1: up to **€ 575 000** for a single Grant.
Lot 2: up to **€ 575 000** for a single Grant.

Evaluation of applications would be made on 17 September 2009 and notification of award (after eligibility check) would be on 21 September 2009.

Service Sector Capacity Development Fund

The IEM's application to MIDA for the SSCDF Fund was approved on 4 August 2009.

The SSCDF Grant was approved for Outreach Training Programme and for IEM to upgrade its web to portal.

Two Task Forces Committees had been set up to look into the two activities approved. It was also to be noted that the time frame allocated for the utilisation of the grant for the outreach programme was up to March 2010 while the time frame allocated for the upgrading of the web to portal was 12 months. It was also noted that the planning stage had been completed and the two Task Forces would now proceed to implement the plans. It was further agreed that a short progressive report should be prepared for submission to MIDA.

Subjects to be Taken for Change of Discipline

A proposal was submitted and approved with regards to the subjects that a candidate sitting for the IEM/BEM Graduate Examinations would need to sit in order to change discipline from Electronic to Electrical. As approved previously, the candidate has to take the following subjects.

Electrical Fields and Circuits
Electrical Machines and Drives
Electrical Energy Systems
Advanced Engineering Analysis
Quality and Reliability Engineering

With the revision of the curriculum, Advanced Engineering Analysis would no longer be in the curriculum and there would be two new subjects – High Voltage Engineering and Electrical Energy Utilisation.

Hence, for the change of discipline from Electronic to Electrical, the subjects to be taken would now have to be:

Electrical Fields and Circuits
Electrical Machines and Drives
Electrical Energy Systems
High Voltage Engineering
Electrical Energy Utilisation

Revision to the Proposed Curriculum for the IEM/BEM Graduate Examinations

In view of the revision of the Examinations syllabus, the following subjects would not be offered for the examination in December 2009 as these are new subjects, and since the syllabus had just been drafted and not yet been conveyed to the candidates, it would only be offered at the next sitting. The subjects are:

High Voltage Engineering
Electrical Energy Utilisation
Instrumentation and Control
Statics and Dynamics
Construction Engineering
Engineering Economics
Computer Aided Engineering
Mechanical and Structural Engineering

It was further noted that the following two subjects would no longer be offered.

Advanced Engineering Analysis Gas Dynamics

IEM/BEM Examination – December 2009 Sitting

A total of 22 candidates had registered for the exam and the full analysis was presented as follows:

Subjects	No
Engineering Mathematics I	1
Engineering Materials I	2
Engineering Science	1
Engineering Mathematics II	2
Engineering Perspectives and Skills	2
Engineering Mechanics	1
Electrical Fields and Circuits	8
Electronic Systems Engineering	1
Applied Thermodynamics	2
Fluid Mechanics	1
Engineering Materials II	1
Management for Engineers	3
Structural Design	1
Electrical Machines and Drives	11
Electrical Energy Systems	11
Control Systems Engineering	2
Heat Transfer	2
Mechanics of Solids	3
Applied Thermodynamics	3
Heat and Mass Transfer	1

Examiners and Preparation of Examination Questions

It had been decided that a minimum of two paper setters would be appointed to prepare question papers for each subject. Deadline for submission of question papers would be mid September 2009 after which the selected paper would be sent for moderation. Cost to be incurred for setting of papers would be approximately RM40,000.00. Total entry fees collected from candidates to date was RM23,600.00.

Language for Examination

The decision was proposed and accepted that the examination would only be offered in English. It was to be noted that when IEM was offering localised papers previously, the papers were offered in both English and Bahasa Malaysia. The Board of Examiners had nevertheless informed that in the past 10 years, there had been no request for the Bahasa Malaysia version of the questions by the candidates.

The rationale to have the question papers only in English were:

- In order for Malaysian engineers to be world class and of international standard, they should be versatile in English in order to go global.
- Foreigners would also be able to sit for this examination.
- Malaysia is already admitted as full member of the Washington Accord as well as member of the APEC Engineer Register and EMF signatory.

The candidates may, however, opt to answer the questions in Bahasa Malaysia if they were unable to express themselves in English.

Amendments to the IEM Constitution and Bylaws

IEM had submitted its request to amend part of the Constitution and Bylaws as follows:

IEM Constitution
Article II – Membership - 2.4, 2.9, 2.10
Article III – Elections. Admissions, and Separations; and Examinations - 3.1, 6.3
Article VI: Management - 6.3

IEM Bylaws
Section II – Qualifications for Membership - 2.7
Section IV – Entrance and Transfer fee - 4.1, 4.2, 4.7
Section III – Elections, Admissions, and Separations; and Examinations - 3.26
Section II – Qualifications for Membership - 4.1, 4.2

Sub-Committee on Investigation / Appointment of External Editor

The actions proposed by the Standing Committee on Information and Publications with regard to the issue of plagiarism in the IEM Bulletin was accepted and it was agreed as follows:

i) The authors confirmed to have plagiarised would be asked to offer an apology, failing which the Bulletin Editor would do so on their behalf.

ii) An ad-hoc Sub-Committee to be set up to look into the matter. The IEM Secretariat was also requested to compile and maintain documentation of all plagiarised articles identified.

The actions proposed by the Standing Committee on Information and Publications with regard to the issue of plagiarism in the IEM Bulletin was accepted and it was agreed as follows:

Publishing Names of Newly Admitted / Transferred Members

There was a comment that quite a number of pages of the Bulletin had to be taken up monthly for the publication of the names of newly admitted, elected or transferred members. With the current shortage of pages for the publication of articles, the IEM Excomm approved the recommendation of the Committee to relook at the Bylaws on the possibility of not publishing the names of newly admitted Student members. It was also suggested that in place of the Bulletin, the Committee could look at the possibility of publishing the names in loose sheets together with the Bulletin or in the IEM website which should then be known as IEM's e-Bulletin.

Delay in Bulletin Delivery

There were also many complaints on the delay in the preparation and eventual delivery of the Bulletin which caused flyers for IEM events/ activities to be also delayed in reaching IEM Members. To send the flyers on separate mailing would incur additional charges. The Standing Committee on Information and Publications had been requested to look into the matter and to be on time with the release of the Bulletin and Journal.

Benevolent Fund Approval

IEM had approved to assist in providing financial relief to Mrs Aaron Tan Boon Kong as the late Engr. Aaron BK Tan, a graduate member of the IEM, had passed away last year after a short illness. The amount of financial relief would be at RM200 per month for his child for three years and this will be given in one lump sum of RM7,200.00 to assist her in her time of need.

Tenant at Wisma IEM

Maktab Kerjasama Malaysia (MKM) is now the new tenant at Wisma IEM.

Renovation to IEM Secretariat Office

In view of the growing activities and increasing staff strength required to conduct the day to day affairs of the Institution, there would be a need to renovate the IEM Secretariat. Excomm had approved the proposal to renovate the IEM Boardroom on the 2nd floor to house part of the Secretariat while the IEM Conference Hall would be maintained for meetings and activities purposes, especially Excomm and Council meetings, as currently the Boardroom is unable to accommodate some of the bigger Standing Committees. The Conference Hall could also still be rented out to Prime Academy at RM500 per day.

A budget of RM10,000 was approved for the renovation.

IEM Student Sections

It is to be noted that so far, IEM Student Sections have been set up at the following universities:

Universiti Tecknologi Malaysia, Skudai, Johor
Universiti Multimedia, Melaka
Universiti Teknologi MARA, Shah Alam
Universiti Teknologi MARA, Penang
Universiti Sains Malaysia, Minden, Pulau Pinang

To All Members, Date: 10 October 2009

CANDIDATES APPROVED TO SIT FOR PROFESSIONAL INTERVIEW FOR YEAR 2009

In accordance with Bylaws 3.7, the undermentioned names are published as having applied for membership of the Institution, subject to passing the year 2009 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 a month from the date of publication.

Thank you.

Engr. Assoc. Prof. Dr Jeffrey Chiang Choong Luin, MIEM, P.Eng.
Honorary Secretary,
The Institution of Engineers, Malaysia

NEW APPLICANTS

Name	Qualifications
AEROSPACE ENGINEERING	
THOMAS ARTHUR WARD	BSc (UNI OF CINCINNATI, USA) (AEROSPACE, 89) MSc (DAYTON) (AEROSPACE, 93) MSc (LOUGHBOROUGH) (AEROSPACE SYSTEMS ENG, 95) PhD (DAYTON) (MECH, 03)
CIVIL ENGINEERING	
RAHA BINTI ABD RAHMAN	BE HONS (UPM) (CIVIL, 01)
SYED NASSER BIN SYED ABDUL HAMID	BSc (UNI OF MIAMI) (CIVIL, 85)
ELECTRICAL ENGINEERING	
MOHD HALMI BIN MAD DIAH	BE HONS (UNI OF WARWICK) (ELECT, 94)
WAN AHMAD BIN WAN HUSAIN	BE HONS (UPM) (ELECT & E'TRONIC, 01)

NEW APPLICANTS

Name	Qualifications
WONG TSERN HOW, FELIX	BE HONS (UNI OF LEICESTER) (ELECT & E'TRONIC, 96)
ELECTRONIC ENGINEERING	
PATRICK SEBASTIAN	BE HONS (UTM) (ELECT, 93)
SHEIKH KAMAR BIN SHEIKH ABDULLAH	BE HONS (USM) (E'TRONIC, 92)
MECHANICAL ENGINEERING	
CHIN KAI SHOONG	BE HONS (UTM) (MECH, 01)
HISHAM BIN MOKHTAR	BE HONS (UiTM) (MECH, 97)
IZAM BIN ISMAIL	BSc (CALIFORNIA STATE UNI, CHICO) (MECH, 91)
NAHROWI BIN SULAIMAN	BSc (UNI OF STRATHCLYDE) (MECH, 83)
NG WEE MENG	BE HONS (UNIMAS) (MECH, 03)
NOR HAZIMAN BIN NOH	BE HONS (UTHM) (MECH, 03)
TAN CHIH WEE	PART II (EC) (MECH, 94)

TRANSFER APPLICANTS

M'ship No	Name	Qualifications
CHEMICAL ENGINEERING		
29144	OOI EAM HOOI, RAYMOND	BE HONS (USM) (CHEM, 04)
24488	SIVANESWARAN KAMALA KANNAN	BE HONS (UTM) (CHEM-POLYMER, 00)
CIVIL ENGINEERING		
24553	FOOI MEI LEE	BE (UNI OF AUCKLAND) (CIVIL, 03)
21335	KONG SIONG KAI, DENNIS	BSc (MICHIGAN TECHNOLOGICAL UNI, USA) (CIVIL, 99)
27532	LEE CHEE BOON	BE HONS (MALAYA) (CIVIL, 05)
23914	LIEW TZE KHET	BE HONS (UNI OF CANTERBURY) (CIVIL, 89)
21821	LOO CHUN MAN	BE HONS (UTM) (CIVIL, 03)
24749	SHAHROL RIZAL SAMSUDIN	BE HONS (UTM) (CIVIL, 03)
33985	WONG SEAK YEO	BE HONS (UNIMAS) (CIVIL, 05)
24431	YAP KHAN NIE	BE HONS (UNI OF ADELAIDE) (CIVIL, 01)

TRANSFER APPLICANTS

M'ship No	Name	Qualifications
ELECTRICAL ENGINEERING		
34009	ADDIE AHMAD	BE (BRIGHTON POLYTECHNIC) (ELECT & E'TRONIC, 90)
MECHANICAL ENGINEERING		
25886	CHOK YUN VUN	BE HONS (UNI OF WALES) (MECH, 01)
30577	ICAHRI BIN HJ. CHATTA	BE HONS (UTM) (MECH-INDUSTRY, 01)
22793	ISFANIZAM BIN ISMAIL	BE HONS (UiTM) (MECH, 05)
36652	MOHD ADHA BIN MAT ESA	BE HONS (UKM) (MECH, 01)
26824	NG KENG LIP	BE HONS (UTM) (MECH, 05)
17436	NIZAMUDEEN BIN MANSOOR	B APPLIED SC (UNI OF BRITISH COLUMBIA) (MECH, 96)
19211	RADINAS BIN RAINIS	BE HONS (UTM) (MECH, 94)
29178	TIRUSELVAM A/L RAMAHLINGAM	BE HONS (UTHM) (MECH, 05) ME (UTHM) (MECH, 08)

NEW IEM MEMBERSHIP CARD

With effect from 1 January 2008, IEM has introduced a new IEM membership card for all Members. The new card had been designed to include bar code features as provision for future expansion. It is hoped that this new card would assist IEM to provide better and more efficient service to the Members.

Members who have not collected the card can submit a "scanned" passport sized photograph (softcopy) in JPEG format and e-mail to iemphoto@gmail.com. Kindly indicate your name, membership number and grade upon submission.

You may also contact the IEM Secretariat at 603-79684001/2 for an appointment for your photo to be taken.

Thank you for your co-operation.

IEM DIARY OF EVENTS

For further enquiries on the events below, please visit IEM Homepage at http://www.iem.org.my or contact IEM Secretariat for further information and forms.

Electronic Engineering Technical Division
19 NOVEMBER 2009
One Day Technical Course on "Green Technology and System-On-Chip, SOC"
Venue: Evergreen Laurel Hotel, Penang
Speaker: Various presenter
Time: 8.30 a.m. to 5.30 p.m.

Civil and Structural Engineering Technical Division
20 NOVEMBER 2009
Talk on "The Dubai LRT Viaduct Design and Construction"
Venue: C&S Lecture Room, 2nd Floor, Wisma IEM, Petaling Jaya, Selangor
Speaker: Mr Nigel Hewson
Time: 5.30 p.m. to 7.30 p.m.

Chemical Engineering Technical Division
24 NOVEMBER 2009
Talk on Ecotowns for Asia
Venue: C&S Lecture Room, 2nd Floor, Wisma IEM, PJ, Selangor
Speaker: Mr. Joe Eades
Time: 5.30 p.m. to 7.30 p.m.

29-31 JANUARY 2010 (OR)
31 JANUARY - 2 FEBRUARY 2010
CETD Study Tour to Bintulu
Venue: Bintulu, Sarawak
(Invitation to register)

Building Services Technical Division
1 DECEMBER 2009
Talk on "Harmonics and It's Mitigation Techniques"
Venue: Prof. Chin Fung Kee Auditorium, Wisma IEM
Speaker: Mr. Gopal Kanani
Time: 5.30 p.m. to 7.30 p.m.

Electrical Engineering Technical Division
1-2 DECEMBER 2009
Two Day Course on Electrical Safety in Hazardous Atmosphere
Venue: TNB Integrated Learning Solution – ILSAS, Bandar Baru Bangi, Selangor
Speaker: Engr. Ali Askar bin Sher Mohamad, MIEM, P.Eng.
Time: 8.30 a.m. to 5.30 p.m.

14 DECEMBER 2009
Talk on "Evolution of Telecommunication in the Biz Ecosystems Framework"
Venue: Prof. Chin Fung Kee Auditorium, Wisma IEM, Petaling Jaya, Selangor
Speaker: Dr Roberto Saracco
Time: 5.30 p.m. to 7.30 p.m.

22 DECEMBER 2009
An Evening Talk on "Managing Electrical Expenditure with Electrical Energy Management for Electrical Asset Class"
Venue: Prof. Chin Fung Kee Auditorium, Wisma IEM, Petaling Jaya, Selangor
Speaker: Engr. Lam Sing Yew, MIEM, P. Eng.
Time: 5.30 p.m. to 7.30 p.m.

IT SPECIAL INTEREST GROUP (ITSIG)
2 DECEMBER 2009
Talk on "Digital Forensics – Finding a Needle in a Haystack"
Venue: C&S Lecture Room, 2nd Floor, Wisma IEM, Petaling Jaya, Selangor
Speaker: En. Razana bin Md. Salleh / En. Mohd. Firham Efendy bin Md. Senan
Time: 5.30 p.m. to 7.30 p.m.

PROFESSIONAL INTERVIEW BOARD
5 DECEMBER 2009
Professional Interview Board
Venue: Prof. Chin Fung Kee Auditorium, Wisma IEM
Speakers: Engr. Ishak bin A. Rahman / Engr. Dr Muhd. Fuas bin Abdullah / Engr. Gopal Narian Kutty / Engr. Juares Rizal bin Abdul Hamid Firham Efendy bin Md. Senan
Time: 9.00 a.m. to 1.00 p.m.

MAJOR EVENTS
30 NOVEMBER - 2 DECEMBER 2009
27TH CAFEO: ENGINEERING FOR SUSTAINABLE ENVIRONMENT (Call for papers)
Venue: Suntec City Convention Centre, Singapore
Tel: +603 7968 4001/2
Fax: +603 7957 7678
E-mail: sec@iem.org.my
Fees: USD100.00
(Invitation to register)

1-3 MARCH 2011
INTERNATIONAL CONFERENCE AND EXHIBITION ON TUNELLING AND TRENCHLESS TECHNOLOGY
Venue: Sheraton Subang Hotel and Towers
Tel: 603 7968 4001/2
Fax: 603 7957 7678
E-mail: Tunnel2011@iem.org.my
Website: http://www.iem.org.my
(Invitation to register)

CONFERENCES & SEMINARS

MALAYSIA
5-7 APRIL 2010
CHARTING THE WAY FORWARD
Venue: KL Hilton, KL
Tel: 603 7880 6839
Fax: 603 7880 3067
E-mail: piece2010@urban-forum.com
Website: www.piece2010.com
(Invitation to Register)

4-12 DECEMBER 2009
5TH CISSE INTERNATIONAL CONFERENCE ON COMPUTER, INFORMATION, AND SYSTEMS SCIENCES, AND ENGINEERING (CISSE 2009)
E-mail: info@cisse2009online.org
Website: www.cisse2009online.org
(Invitation to Register)

14-17 DECEMBER 2009
2009 IEEE 9TH MALAYSIA INTERNATIONAL CONFERENCE ON COMMUNICATIONS (MICC 2009)
Venue: Seri Pacific Hotel, Kuala Lumpur
E-mail: borhan@eng.upm.edu.my
Website: http://micc.org.my
(Invitation to Register)

19-20 DECEMBER 2009
7TH INTERNATIONAL CONFERENCE ON ROBOTICS, VISION, SIGNAL PROCESSING AND POWER APPLICATIONS (RoViSP'09)
Venue: Langkawi, Kedah
Tel: 604 5996011/61
Fax: 604 5941023
E-mail: rovisp09@rovisp.org.
Website: www.rovisp.org
(Invitation to Register)

10-13 MAY 2010
10TH INTERNATIONAL CONFERENCE ON INFORMATION SCIENCES, SIGNAL PROCESSING AND APPLICATION
Venue: Renaissance Hotel, KL
Tel: +607 521 8170/8159
E-mail: isspa2010@spaceutm.edu.my
Website: www.spaceutm.edu.my
(Call for Papers and Invitation to Register)

AUSTRALIA
6-9 DECEMBER 2009
ENGINEERING MATHEMATICS AND APPLICATIONS CONFERENCE (EMAC2009)
Venue: University of Adelaide
Website: www.maths.adelaide.edu.au/emac2009/
(Invitation to register)

SINGAPORE
9-11 DECEMBER 2009
INTERNATIONAL SYMPOSIUM ON GROUND IMPROVEMENT TECHNOLOGIES AND CASE HISTORIES (ISG109)
Venue: Professional Activities Centre, NUS Faculty of Engineering, Blk EA, #05-34 Singapore 117576
Tel: (65) 6516 5113
Fax: (65) 6874 5097
E-mail: ISGI09@nus.edu.sg
(Invitation to register)

LATEST UPDATE!

CONTRIBUTION TO IEM BUILDING FUND

RM1,077,737.40 from IEM Members
RM340,502.00 from Private Organisations

TOTAL

RM1,418,239.40

(ANOTHER RM13,568,239.40 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 NEW IEM BUILDING FUND

20th Announcement

The Institution would like to thank all contributors for donating towards the new IEM Building Fund. Members and readers who wish to donate can do so by fill-up the form printed at page 6 or by downloading the form from IEM website at http://www.iem.org.my or contact the IEM Secretariat at +603-79684001/2 for more information. The list of the contributors as at 30 September 2009 are shown as below.

NO.	MEMBERSHIP NO.	DETAILS
1	AM26872	AHMAD TARMIZI BIN TUMIRAN
2	M23694	AUGUSTINE MARIA AROKIASAMY
3	M11192	BORHAN BIN OSMAN
4	M14181	CHENG KEE HAUT
5	M15455	CHEONG YOON KWAN
6	M09313	DAUD BIN ISMAIL
7	M06364	DOMANIC ANAK DOMBA
8	F18877	EDWIN JONG NYON TCHAN
9	M10216	HJ. MOHD. HUSSEIN BIN HJ. MOHD. SHARIFF
10	G29597	KANAISAN A/L KARUPIAH
11	G20245	KHITHOB BIN AHMAD
12	M05116	KOO LAI HOO
13	M02559	LIANG MOK SUNG
14	S15825	LING HUI LEI
15	S30732	MOHD. MAHATHIR BIN HJ. MOHD. DAIM
16	G12579	MUSTAPHA BIN ADENAN
17	M28363	NAZRI BIN AMINUDIN
18	M23257	SAIFUL MUZAMIR BIN ISMAIL
19	M10176	SENTHIRAJAH S/O RAJARATNAM
20	M07586	SHAHBUDIN BIN AHMAD
21	G31722	SITI FADZLIANA BINTI SUTIMAN
22	G20719	SU LAY CHIEW
23	M10134	SUH CHING HIENG
24	G16150	SYED KHAIZURA BIN SYED ISA
25	G29614	SYED MUHAMMAD AFDHAL BIN S. AHMAD GHAZALI
26	G17565	TAN GIIN LING
27	G25777	TEH KHENG HO, KELVIN
28	G07256	UTAP SEBAU
29	M10340	WONG SHU VUI, ANTHONY
30	M00658	YEE KWOK LEUNG
31	F07290	YEO JOON CHIEW
32	G16470	ZULKIFLI BIN MOHD. NOOR

RECOGNITION/BENEFITS LIST FOR DONATIONS OR LOAN TO IEM BUILDING FUND

1. LOAN

Members may give out loans to IEM in the following denominations:

	Loan Amount	Entitlement
(i)	RM1,000 – RM2,000	Talk voucher worth RM100. Discount vouchers worth RM50. Valid for five (5) years.
(ii)	RM2,001 – RM5,000	Talk voucher worth RM200. Discount vouchers worth RM100. Valid for five (5) years
(iii)	Above RM5,000	Talk voucher worth RM200. Discount vouchers worth RM200 to attend IEM courses/seminars.

From year 6 onwards, IEM can begin to repay members' loan and withdraw the privileges accorded but maintain the recognition awarded.

2. DONATIONS FROM MEMBERS

	Donation Amount	Recognition
(i)	RM1,000 – RM2,000	Talk voucher worth RM100. Discount vouchers worth RM50. Valid for five (5) years. 12pt sized. Engraving on the Donation Board.
(ii)	RM2,001 – RM5,000	Talk voucher worth RM100 and Discount vouchers worth RM100 to attend IEM courses seminars. Valid for five (5) years. 14pt sized Engraving on the Donation Board.
(iii)	RM5,001 – RM10,000	Talk voucher worth RM200 and Discount vouchers worth RM200 to attend IEM courses/seminars. Valid for five (5) years. 16pt sized Engraving on the Donation Board. Naming of one Division of Secretariat office.
(iv)	RM10,001 – RM20,000	Talk voucher worth RM200 and Discount vouchers worth RM200 to attend IEM courses/seminars. Valid for five (5) years. 18pt sized Engraving on the Donation Board. Naming of small Meeting room.
(v)	RM20,001 – RM50,000	Talk voucher worth RM200 and Discount vouchers worth RM200 to attend IEM courses/seminars. Valid for five (5) years. 18pt sized Engraving on the Donation Board. Naming of medium sized Meeting room.
(vi)	RM50,001 – RM100,000	Talk voucher worth RM200 and Discount vouchers worth RM200 to attend IEM courses/seminars. Valid for five (5) years. 18pt sized Engraving on the Donation Board. Naming of large sized Meeting room.
(vii)	RM100,001 – RM150,000	Talk voucher worth RM200 and Discount vouchers worth RM200 to attend IEM courses/seminars. Valid for five (5) years. 18pt sized Engraving on the Donation Board. Naming of Resource Centre/Library.
(viii)	RM150,001 – RM200,000	Talk voucher worth RM200 and Discount vouchers worth RM200 to attend IEM courses/seminars. Valid for five (5) years. 18pt sized Engraving on the Donation Board. Naming of Conference Room.
(ix)	RM200,001 – RM300,000	Talk voucher worth RM200 and Discount vouchers worth RM200 to attend IEM courses/seminars. Valid for five (5) years. 18pt sized Engraving on the Donation Board. Naming of Auditorium 1.
(x)	RM300,001 – RM500,000	Talk voucher worth RM200 and Discount vouchers worth RM200 to attend IEM courses/seminars. Valid for five (5) years. 18pt sized Engraving on the Donation Board. Naming of Auditorium 2.

(IEM is still looking into applying for Tax Exemption status for the IEM Building Fund)

DONATION/LOAN REPLY FORM

Chairman
IEM Fund Raising Committee (Building Fund)
The Institution of Engineers, Malaysia, P.O. Box 223, (Jalan Sultan), 46720 Petaling Jaya, Selangor Darul Ehsan

Date: _____/_____/2009

Dear Sir,

IEM BUILDING FUND

☐ LOAN ☐ DONATION (Please indicate ✓ where applicable)

☐ Enclosed herewith a Cheque/Bank Draft/Money Order/Postal Order* No.....
for RM..... for the abovementioned made payable to **'IEM Building Fund'** Account.

☐ Please charge to my credit card the amount of RM ..... for the abovementioned.

Card: ☐ Visa ☐ MasterCard Expiry Date: M M / Y Y

Card Number: ☐☐☐☐ / ☐☐☐☐ / ☐☐☐☐ / ☐☐☐☐

Name: _____

Address: _____

_____

Contact No.: _____

Email: _____

_____
Signature

IEM JOBS AD

A Job Vacancy Advertisement Programme

Looking for Engineers?

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

CHEAPER THAN USING TRADITIONAL SEARCH FIRMS OR NEWSPRINT!

OVER 20,000 ENGINEERS EXPOSED TO YOUR JOB POSTING

APPROXIMATELY 300 WEBSITE HITS PER DAY

JOB POSTINGS APPEAR FOR 30 DAYS IN WEBSITE COMPARED TO 1 DAY FOR NEWSPRINT

ONLY MINIMUM OF RM50 PER JOB ADVERTISED FOR IEM MEMBERS AND RM100 FOR NON-MEMBERS

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, www.iem.org.my or you may contact Pn. Rozana, the IEM Secretariat at 03-7968 4001/4002 or email to rozana@iem.org.my for more details.

Job seekers can search for their desired employment in the IEM Website under '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

IEM TRAINING CENTRE SDN BHD (127273-K)

(Wholly owned subsidiary of The Institution of Engineers, Malaysia)

No 33-1A (1st Floor), Jalan 52/18, P.O. Box 224 (Jalan Sultan P.O.), 46720 Petaling Jaya, Selangor Darul Ehsan. Tel: 603 7958 6851 Fax: 603 7958 2851
Email: choy@iemtc.com Website: http://www.iem.org.my/www.iemtc.com

Dear Members,

IEM Training Centre has put in place a plan to establish itself as a one-stop centre for your insurance needs and we look forward to your support to realise this plan. The response to our motor insurance started off poorly, however, there is an upward trend in the number of members supporting us, the most likely reason being their policy has yet to expire.

For more details relating to the following products, you can view them via the IEM Website>Training Centre and Insurance

FIRE INSURANCE OFFICE PACKS

This is a very special package policy especially for Consulting Engineers because it comprise seven classes of insurance under a single policy at a very competitive premium. This package policy covers many unlikely events if anything unfortunate happens in your office. Take the following as an example and check your existing policy for the coverage and premium.

Description of coverage	Amount Insured	Premium (RM)
Fire on building, renovation, contents (excl. office equipment)	RM500,000	420.00
Burglary	RM75,000	-
Money in Premises, Transit	RM7,500 for each	-
Plate Glass	RM7,500	-
Fidelity Guarantee	RM10,000	-
Office Equipment All Risk incl. laptops, notebooks	RM75,000	-
Public Liability	RM500,000	-
All the Classes of Insurance	-	RM450.00
TOTAL PREMIUM PAYABLE:	**-**	**RM870.00**

(Note: Additional perils, higher sum insured, etc, are possible with additional premium via endorsement subject to insurer's acceptance.)

MOTOR INSURANCE

Our motor insurance provides minor roadside repair and free tolling to the workshop of your choice, if your existing policy does not have the facilities, you may want to switch over to IEM. You never know when your car will breakdown on you and it is not a nice feeling when you have nobody to call upon to assist. Do not take such a risk, insist on a motor policy that provides you with minor roadside repair and free tolling.

PERSONAL ACCIDENT INSURANCE

There are a number of plans to select which matches your budget. If you wish to purchase on a Group Basis, you can always contact our Insurance Office at the Training Centre.

OVERSEAS TRAVEL PERSONAL ACCIDENT

Apart from personal accidents while travelling overseas, one of the main concerns is the medical expense. Medical expenses can be very expensive especially for foreigners. One of the key features of this product, which is not commonly available, is the SOS service. The SOS service will be provided if, in the event that you are in a remote area and fallen ill, and there are no medical facilities available to treat your particular illness, you can contact SOS and be transferred to the nearest medical centre with such facilities. This is a very important coverage if you visit remote historical sites.

PROFESSIONAL INDEMNITY INSURANCE (PII)

If you already have a PII, you may wish to call IEM Training Centre Sdn Bhd so that you can get a comparative quotation. If you need more explanation you can also contact IEM Training Centre. A presentation can be arranged without any obligations, but we remain hopeful that you would support IEM Training Centre.

Visit the IEM website and select the Training Centre and Insurance tab to get all the details. Please provide us with feedback so that we can serve you better.

IEM TRAINING CENTRE SDN BHD WEBSITE

IEM Training Centre Sdn Bhd is pleased to announce its website at **www.iemtc.com**. Please visit the website for more information and details on courses/seminars/workshops and other events. Details on IEM Insurance are also available at the website.

Thank you.

2ND ANNOUNCEMENT CALL FOR PAPER AND REGISTRATION

International Conference and Exhibition on Tunnelling and Trenchless Technology

"Tunnelling in South East Asia - Future Challenges" and
"Management of Safety and Risks in Tunnelling"

1–3 March, 2011
Sheraton Subang Hotel and Towers, Selangor Darul Ehsan, Malaysia

Organised by
IEM Tunnelling and Underground Space Technical Division (TUSTD)

Co-Organised
Tunnelling and Underground Construction Society Singapore (TUCSS)

Supported by
International Tunnelling Association (ITA) and
Association of Geotechnical Societies in Southeast Asia (AGSSEA)

Managed by
IEM Training Centre Sdn. Bhd. (TCSB)

All enquiries and correspondence are to be sent to the Conference Secretariat:-

Conference Secretariat,
Tunnelling and Trenchless Technology
The Institution of Engineers, Malaysia
Bangunan Ingenieur, Lots 60/62, Jalan 62/4
P.O.Box 223 (Jalan Sultan), 46720 Petaling Jaya
Selangor Darul Ehsan, Malaysia
Tel No. : +(603) 7968 4001/4002/4006
Fax No. : +(603) 7957 7678
Email : Tunnel2011@iem.org.my
Website : http://www.iem.org.my

No	Name	IEM No.	PE No.	Fees
			Total	

Enclosed herewith a cheque No. : _____

for the sum of RM _____ issued in favour of "IEM Training Centre Sdn. Bhd." I/We understand that the fee is not refundable if I/we withdraw after my/our registration is accepted by the Committee but substitution of participants will be allowed. If I/we fail to attend the course, the fee paid would not be refunded.

Name of Organisation : _____

_____

Address : _____

_____

_____

_____

Tel (O) : _____ Fax No. : _____

E-mail : _____ Handphone: _____

Contact person: _____

Signature: _____ Date: _____

Please tick (√) where applicable:

(a) I will be accompanied by:

☐ Spouse
☐ Children nos. _____ Guests nos. _____

(b) ☐ I would like to present a paper and enclose **3 copies** of the abstract

Title of paper: _____

_____

Presenting Author: _____

(c) ☐ Please forward more information on Exhibition

Registration Fees	**Before 30 Sept 2010**	**After 31 Dec 2010**
Author	800.00	800.00
Member	800.00	1,000.00
Non-member	1,000.00	1,200.00
Spouse	500.00	700.00
Student	200.00	200.00

Dates For Submission

Submission of Abstract	31 January 2010
Notification of Acceptance	31 March 2010
Submission of Full Paper	30 August 2010
Acceptance of Full Paper	31 October 2010

How to register online

To register online or to download a registration form, please visit the IEM website *www.iem.org.my*. You will receive an acknowledgment of registration upon completing the above process. However this is not a confirmation. Confirmation of registration and accommodation will be forwarded to you once your requirements have been processed and payment has been received by the conference organisers

Talk on 'Encouraging Lady Engineers in Engineering' at Swinburne University, Kuching, Sarawak

by **Engr. Dr Mohd Farid Ahmad,** MIEM, P. Eng.

THE Institution of Engineers, Malaysia (IEM) encourages more women to pursue engineering as a career and advises them not to be discouraged by the challenges they face in the industry.

This was the message to more than 70 female students and staff who attended a talk on 'Encouraging lady engineers in engineering', which was held at Swinburne University of Technology Sarawak Campus on 7 August 2009. Students and staff from Universiti Malaysia Sarawak (Unimas), Universiti Teknologi Mara (UiTM), Lodge School and Swinburne Sarawak also attended the talk.

Magdalene Tan, a speaker from IEM's Lady Engineers sub-committee, said, 'We noticed that there are many female students who are taking up studies in engineering, but do not see the rise (in the number of women engineers) in IEM membership. We would like to see more women remain in engineering, and also to encourage female students to make a career in the industry when they finish their studies.'

She urged students to examine why they wanted to study engineering in the first place and not to be disheartened by the challenges in the industry. 'Don't be discouraged because of a little hardship. I am from KL but I have worked in places like Bau and Sarikei. I had three young kids at home and I worried about them all the time,' said Tan, who is now retired. She added that these days, engineers have to go where the work is.

Tan advised that, as a student, one should study 80% of the time, 'but when you come out to work, you should have a good mix (of work, recreational and social interests)'. Tan said the Lady Engineers section of IEM organises activities that are of interest to women. She added, 'We have activities every year such as tea parties, flower arrangement classes, handicraft work, cooking and dancing lessons, and helping underprivileged children.'

Saying that 'many women study engineering but later become housewives,' Chin Lee Leng, the second speaker, urged the audience to 'think about what you want'. 'I quit my first job because I only designed four-storey shophouses until I can do it with my eyes closed,' she joked.

Chin, who is a director at an engineering consultant company and has been involved in major projects in the country, encourages women engineers not only to rise to the occasion but to go the extra mile in their work. She said, 'As women, we are good at multitasking. We are able to juggle our tasks both at home and at work. Let us capitalise on this and make ourselves into good engineers.'

During the question and answer session, both Tan and Chin shared their experiences and tips on, among them, what employers look for in a potential employee. Confidence, willingness to learn on the job, being a team player, ability to troubleshoot, crisis management and good professional ethics were some of the qualities discussed.

Women in Engineering & Science Society, Swinburne University

The talk was jointly organised by Swinburne University Sarawak's School of Engineering and Science, and the university's Women in Engineering and Science Society, a student club at Swinburne University, Sarawak. ■

Talk on Product Design: Creating Marketable Products

by ***Ir. N. Jayaseelan,*** *MIEM, P. Eng.*

Secretary/Treasurer of the Engineering Education Technical Division

A total of 74 participants attended the talk which was held on 20 February 2009 at the IEM Conference Hall. The speaker was Engr. Dr Faris Tarlochan from UNITEN and the session was chaired by Ir. N. Jayaseelan. After a more general introduction, the speaker focused on the design of physical products.

Product design can be defined as the idea generation, concept development, testing and manufacturing or implementation of a physical object or service. Product designers conceptualise and evaluate ideas, making them tangible through products in a more systematic approach. The role of a product designer encompasses many characteristics, including those of the marketing manager, product manager, industrial designer and design engineer.

The term is sometimes confused with industrial design, which defines the field of a broader spectrum of design activities, such as service design, systems design, interaction design as well as product design. The role of the product designer combines art, science and technology to create tangible services or three-dimensional products. This evolving role has been facilitated by digital tools that allow designers to communicate, visualise and analyse ideas in a way that would have taken greater manpower in the past.

Product designers are equipped with the skills needed to bring products from conception to market. They should have the ability to manage design projects, and subcontract areas to other sectors of the design industry. Aesthetics is considered important in product design, but designers also deal with other important aspects including technology, ergonomics, usability, stress analysis and materials engineering.

As with most of the design fields, the idea for the design of a product arises from a need and has a use. It follows a certain method and can sometimes be attributed to more complex factors. The term industrial design engineer is also used to describe a technically competent product designer.

Although the process of design may be considered 'creative', many analytical processes also take place. In fact, many product designers often use various design methodologies in their creative process. Some of the processes that are commonly used in product design are user research, sketching, comparative product research, model making, prototyping and testing. These processes can be chronological, or as best defined by the designers and/or other team members.

Product designers often utilise 3D software, computer-aided industrial design and CAD programs to move from concept to production. Product characteristics specified by the designer may include the overall form of the object, the location of details with respect to one another, colours, texture, sounds, and aspects concerning the use of product ergonomics.

In addition, the designer may specify aspects concerning the production process, choice of materials and the way the product is presented to the consumer at the point of sale. The use of industrial designers in a product development process may lead to added value by improving usability, lowering production costs and creating more appealing products. ■

Technical Visit to the Electrified Double Track Project

by ***Engr. Dr Mohd Farid Ahmad,*** *MIEM, P. Eng.*

ON 27 June 2009, 34 members participated in a site visit to the ongoing Electrified Double Track Project at the Berapit Tunnel and the Larut Tunnel. At the site office to welcome the members was the contractor's team of the MMC-Gamuda joint venture.

This was followed by technical presentations by Ir. Lai Boon Ping on construction activities and Ir. Andrew Yeow on the design of the tunnels. Ir. Dr Ooi Lean Hock was also present to provide further explanation of the project. During the lively Q&A session, questions were asked on the soil investigation work, control of tunnel dimension, use of rock mass quality system to identify protection type, seismic and safety requirements in the design of the tunnels.

After the presentation and safety briefing, members were taken to visit the Berapit Tunnel followed by the Larut Tunnel. Berapit Tunnel is a twin tunnel with a single track of 2.9 km long. It is the longest railway tunnel in South East Asia. Members were briefed on the ongoing drilling activity which is part of the preparation for the blasting work.

Larut Tunnel on the other hand is a single tunnel with double track. It is 390 m long. Main boring for the tunnel was already completed. Tunnel protection work was ongoing at the time of the visit.

Both tunnels were bored by blasting and excavation techniques. A two 12-hour work shift was implemented at the construction site. ■

At the Padang Rengas portal of Berapit Tunnel

Entrance to the Larut Tunnel at the Taiping portal

Talk on Facilities Management for Engineers

by ***Ir. N. Jayaseelan,*** *MIEM, P. Eng.,*
Secretary/Treasurer of Engineering Education Technical Division

A total of 49 participants attended the talk which was held on 2 March 2009 at the IEM Conference Hall. The speaker was Ir. N. Jayaseelan and the session was chaired by Engr. Dr Faris Terlochan from UNITEN.

There are numerous definitions for facility management, but broadly, it can be defined as, "A business practice that optimises people, process, assets and the work environment to support the delivery of the organisation's business objectives." Facilities are all the materials that are not part of the products and services being produced, but are necessary for an organisation to operate. Thus facilities include property, buildings, utility, equipment, interior fit-outs, office furniture, communication devices, *etc.* So, facility management encompasses multiple activities to ensure functionality of the built environment by integrating people, place, process and technology.

There are a large number of professionals whose jobs include facility management tasks, but they do not call themselves 'facility managers'. For example, architects, engineers, quantity surveyors, interior designers, value managers, office managers, *etc*. These individuals can benefit from facility management training in competencies that are essential to their roles at work. Improved facility management reduces costs and increases efficiency.

The majority of the activities embodied in facility management have been practiced for many decades under different labels. Facility management as a distinct business discipline treating these activities holistically started to emerge in the United States in the early 1980s, with the formation of The International Facilities Management Association (IFMA) in 1982. Facility management quickly spread to the United Kingdom, Europe, Australia and 15 years or so ago, to Malaysia.

Facility management is one of the fastest growing and diversifying industries. It is also a global growth industry. This growth is being driven by the need for better public and private sector business financial performance, the application of new technologies and complex organisational needs. ■

Half Day Seminar on 'Environmental Impact Assessment'

by ***Engr. Choo Chee Ming,*** *MIEM, P. Eng.*

THE half day workshop was held on 1 August 2009 at the IEM Auditorium, Wisma IEM, Petaling Jaya. The workshop was organised by the Environmental Engineering Technical Division of IEM. A total of 45 participants attended the workshop. The workshop covered the following four sessions:

Session 1 - Enhancing the effectiveness of the Environmental Impact Assessment (EIA)

This session was conducted by Puan Halimah Hassan, Director of the Environmental Assessment Division of the Department of Environment which is responsible for the implementation of the EIA procedure in Malaysia. This session updated the participants on the issues and challenges, improvements, expectations and the way forward for EIA in Malaysia. The way forward in environmental management consists of prevention land use planning; observing the National Physical Plan, structure plans, local plans, shoreline management plans, environmentally sensitive areas etc.; self regulation and self monitoring such as the implementation of the Environmental Management System (EMS) and ISO140001; cleaner production (a win-win situation); economic instruments; greening approach – eco partnership, commitment of all stakeholders, a green lifestyle and the Strategic Environmental Assessment (SEA).

Session 2 - Returning EIA to its rightful position as a project planning tool

This session was conducted by Ir. Dr G. Balamurugan, who is currently the Managing Director of ERE Consulting Group. This session shed some light on the weaknesses of project level EIA and to improve the EIA process. The EIA process can be improved through the following aspects

i) Having better policy directions;
ii) Strengthening the review process;
iii) Improving transparency;
iv) Improving monitoring and enforcement; and
v) 'Sorting out' the consultants.

In conclusion, we all need to understand that the EIA is only one cog in the wheel of development planning, approval and enforcement. Everyone needs to understand that the EIA is a project planning tool. It is not an audit. Its main function is to improve project design and make the project more environment-friendly. More EIAs will not solve the existing problems until the other cogs (policy support, improved review process, better monitoring and enforcement) are in place. Complexity is not an excuse for inactivity.

Session 3 – Human health risk assessment. The cost-efficient solution to contamination

This session was conducted by Dr Belinda Goldsworthy, who is the Principal Consultant within ERM's Kuala Lumpur office and specialises in human health and ecological risk assessments. Her presentation covered topics such as what is human risk assessment (HRA), HRA as a cost efficient management tool, overview of the HRA process, ERM's global and local HRA team, and practical use of HRAs. In conclusion, she highlighted that risk assessment/management is already in everything we do. Risk assessment is just a tool to assist in decision making, it is not an answer in itself. It is a tiered process, the higher the tier, the more data required, the better the confidence in the results and the more cost effective the solutions. On the other hand, the results for risk assessment can be garbage in garbage out. She also recommended drafting human health screening levels, particularly for Malaysia.

Session 4 – Current approach in addressing environmental issues in the construction industry: 'What major roles can engineers perform after 20 years of EIA implementation in Malaysia?'

This session was conducted by Ir. Haji Abu Harith bin Haji Shamsuddin, who is currently the Unit Head, Maintenance Service Engineering Branch, JKR Headquarters in Kuala Lumpur. The topics covered included sustainable development, definition of EIA, asset failure and lifecycle, and total asset management (JKR experiences and national mission). ■

ANNOUNCEMENT

Please be informed that all correspondence to the IEM Terengganu Branch Chairman should be temporarily sent to the Branch Honorary Secretary's address as stated. These changes will take immediate effect.

Engr. Hj. Atemin bin Sulong
Syarikat Bekalan Air Terengganu
Bandar Almuktafi-Bilah Shah
23400 Dungun, Terengganu

Thank you

Visit to Malaysia Energy Centre

by ***Ir. Assoc Prof. Dr Dominic Foo,*** *MIEM, P. Eng.*

A visit to the Malaysia Energy Centre (Pusat Tenaga Malaysia or PTM) at Bandar Baru Bangi was successfully held by the Chemical Engineering Technical Division (CETD) on 19 March 2009, with a total of 37 participants. A talk was given by PTM on its various activities on energy planning, energy efficiency, as well as research and development. This was followed by a visit around the Zero Energy Office (ZEO) Building, the main building where PTM is situated.

The ZEO Building is the main administration and research building for PTM. It is a demonstrator building which promotes sustainable building concept, where energy efficiency and renewable energy are demonstrated. The ZEO building is designed to be energy efficient, with an energy index of 35 to 40kWh/m^2.year, compared to a typical office building in Kuala Lumpur with an energy index of 250 to 300kWh/m^2.year. In principle, the energy consumption of the building is balanced by its renewable power generation system. The building demonstrates that the ZEO concept can be realised using readily available technology while making use of an environment where solar generated electricity and daylight are plentiful.

The building's integrated photovoltaic panels (BIPV) are integrated into the building design to be both architecturally and aesthetically pleasing, besides providing the electricity needs for the building's users. This BIPV system is connected to the national electricity grid by feeding electricity into the network and thus shaving the peak power demand during the daylight hours. ■

Community Service Responsibility Project: Bukit Tinggi New Village Ginger Trail/Farm Road Advisory Service

by ***Ir. Fong Tian Yong,*** *MIEM, P. Eng.*

The team taking a photo before starting off

IEM Standing Committee on Welfare and Service Matters (SCW) has been working with the committee of Bukit Tinggi New Village, Bentong, to provide technical services to construction of village infrastructure and amenities. To add fun to the project, SCW organised an expedition consisting of 56 participants (inclusive of family members) with four local guides to visit the project sites and at the same time, to observe the farming activities for educational purpose. The village headman Mr. Lu had arranged a 4WD and two motorbikes to escort the group up the winding track amidst the cool air and surrounded by an array of wild plants and flowers.

After an hour's climb, the team reached the waterfall where they took a rest while waiting for the slower climbers to catch up. It was both refreshing and scenic considering their body's sweaty condition. Next, the team was guided to water cress vegetable cultivation areas where mountain stream flows through the crop. The vegetable beds were laid in cascading order following the topography of the terrain with pipes through the bunds to convey flowing water from one bed to another. From here, the team tracked through various vegetable farms such as four angle beans, French beans and other fruit-vegetable crop. Some of the more adventurous participants helped themselves to these vegetables by consuming them raw.

By the time the team reached the ginger farm, they have already tracked 7km although some hitched a ride on the 4WD driven by the headman's son. The ginger farm was built on a

steep slope and it takes an average of 10 months to mature. The headman, with the help of a few workers, demonstrated how ginger is harvested. The harvested ginger was then carried down the hill and the participants helped themselves to it with the compliments of the headman. It was noon by the time the team returned to the parking area and they decided to settle for lunch at the headman's restaurant.

After lunch, the IEM team went to the Genting pass in the headman's 4WD to look at the newly opened ginger farm within the forest reserve. Ir. Yim Hon Wa and Ir. Fong Tian Yong offered some advice on hill road construction to the village committee. Ir. Fong was part of the team in assisting them to apply for the forest reserve into ginger farms 2 years ago for 231 farmers. An economical solution is required to pave the former jungle track as farm road serving 709 acres of new ginger farm.

IEM team was later taken to the existing depilated community hall where some advice was also given on the reconstruction of the hall. Through the sketch design prepared by the IEM team, the village committee was granted RM100,000 by the Government to reconstruct phase one of the hall. The headman was pleased with the group as it was the first time a group has visited their farm. Ir. Fong, on behalf of the group, thanked the headman and his assistants for their hospitality and the arrangement of this trip.

For the IEM team, it was both fun and work as most members enjoyed the excursion with family but more importantly, the villagers received assistance as free consultancy service for their projects.

For future village community projects by IEM, we need more volunteers to assist in providing technical advice on technologies, processing, packaging and value adding of agriculture produce as well as eco-environmental waste treatment that can be applied to village farms. ■

The Bukit Tinggi community hall of which IEM provided a design sketch

The ginger farm road at Genting Pass

Ir. Yim thanking the village headman Mr. Lu

Tea Talk Report: Strategic Management Thinking Process (SMTP)

by ***Ir. Fathullah Razzaq bin Ghazali,*** *MIEM, P. Eng.*

ENTERPRISES have seen a plethora of quality management systems and solutions that may be perceived as the magic bullets for any technical and/or non-technical problems. One of the biggest challenges in identifying, procuring and deploying a suitable and sustainable solution is to know and manage what is really urgent and important in light of scarce resources.

To enlighten members on this topic, the Oil, Gas and Mining Technical Division (OGMTD) organised a talk entitled 'Strategic Management Thinking Process (SMTP)' on 11 June 2009. It was delivered by En. Mohd Fuad Ahmad whose career spanned over 19 years in the banking and manufacturing industry. SMTP translates the intuitive thinking into a format that generates rational discussion, which can then be modified to reflect the understanding of a situation. It was developed by Dr Eliyahu M. Goldratt who is the founder of Avraham Y Goldratt Institute (USA) and the worldwide Goldratt Consulting Group.

The talk highlighted the logical 'thinking tools' that could be deployed in standalone situations or together as a coherent problem solving effort on real life issues. The tools would generate structures, effective and impactful actions that could put the organisation on the path to successful strategic planning.

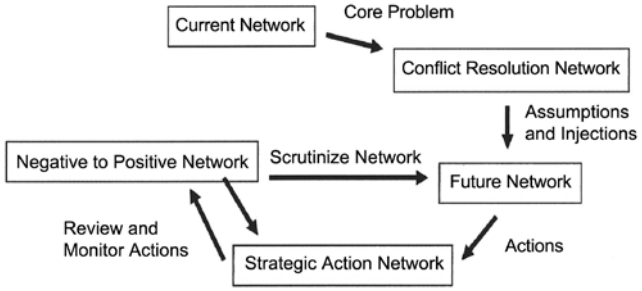
Each thinking process tools entails briefly as follows:

i) Current Network: constructing the current network and identifying the core problem;

The SMTP leverages on the following Triangular Strategic Questions (TSQ):

1) ***What Needs to Change:*** *diagnose the current situation, identify the core problem or conflict and assumptions that sustain it;*
2) ***What to be Changed to:*** *reviews the solution and strategy to attain the desired state by scrutinising via logical reasoning; and*
3) ***How to Make the Change:*** *develops the detailed plans and tactics and harmonise the efforts of the team in the implementation of the strategy.*

With TSQ, the implementation of SMTP comprises five thinking process tools depicted below:



ii) Conflict Resolution Network: defining the character of this network, constructing the resolution network and its injections, targets, requirements, prerequisites and assumptions;
iii) Future Network: identifying and discussing the desired outcome;
iv) Strategic Action Network (SAN): key injections and obstacles, development of intermediate objectives;
v) Negative to Positive Network: constructing the network.

An appropriate orientation workshop that incorporated the use of SMTP on real working issues would enable the user to comprehend the use of SMTP better in addition to acquiring an encouraging and tangible takeaway. SMTP has been deployed in various areas such as manufacturing, services, military, education *etc*.. In commercial organisations it has contributed to profitability. Where mission critical assignments are concerned, the successful SMTP implementation has to be top-driven with the establishment of change leader/agents at the appropriate levels to drive and sustain SMTP. ■

Global Principles for Professional Conduct and Anti-Corruption Initiatives

by ***Ir. Zainal Abidin bin Othman,*** *MIEM, P. Eng.*

THE American Society of Civil Engineers (ASCE) has initiated an Engineers Charter: Combating Corruption in Engineering and Construction, for individual engineers around the world to participate in the steps to elevate standards to curb corrupt practices in the global construction industry. Access to the Charter and signatories to this pledge is available from the ASCE website www.asce.org.

The main principles of professional conduct contained in this Charter are as follows:

- Ensure that they are not personally involved in any activity that will permit the abuse of power for private gain
- Recognise that corruption occurs within the public and private sectors, in the procurement and execution of projects, and among employers and employees
- Refuse to condone or ignore corruption, bribery, or extortion: or payments for favors
- Urge professional engineering societies and institutions to adopt and publish transparent, enforceable guidelines for ethical professional conduct
- Enforce anti-corruption guidelines by reporting infractions by any participant in the engineering and construction process

This Charter goes further to call for professionals to "build professional and public support for zero tolerance for bribery, fraud and corruption, seek transparency in all dealings with public officials and private owners" [2].

It is also reported that "corruption in the global construction industry is a huge economic burden estimated to approach USD500 billion yearly. It occurs in every country no matter the form of government, the level of development, or geographic locations." [3]

Apart from the above effort by ASCE, other initiatives by organisations internationally have been very encouraging. One such organisation is the Global Infrastructure Anti-Corruption Centre (GIACC) based in England. Founded in May 2008 GIACC has developed a Project Anti-Corruption System (PACS). It is an "integrated and comprehensive system designed to assist in the prevention and detection of corruption on construction

projects. It uses a variety of anti-corruption measures which can be integrated into project management" [1]. The system is available from GIACC website www.giaccentre.org.

Also listed in the GIACC website are the following initiatives in combating corruption in the construction industry. (Some of these websites are accessible but may not be up-to-date.)

- **ACET***(http://email.asce.org/international/February07#news)* Global Anti-Corruption Education and Training Project. This initiative comprised collaborative effort of organisations such as the ASCE, WFEO, FIDIC, WEF PACI, API, UPADI, World Bank, IADB, TI and many others. The centerpiece of this group is the production of a 41 minute film 'Ethicana' on corruption. Other materials that will be created for the project will include power point presentation, teaching guide and train the trainer materials devoted to the importance of individual integrity in the performance of construction and engineering projects.
- **Construction Sector Transparency Initiative (CoST)** *(www.constructiontransparency.org)* Based in UK under the Department for International Development of the UK Government. The CoST process provides for regular disclosure to the public of material project information, independent analysis of that information by a multi-stakeholder group, and reporting of the results of such analysis to the public.
- **Ethical Edinburgh** *(www.ethicaledinburgh.org)* It is an initiative to facilitate debate about the possibility of establishing an International Centre for Transparency in Construction.
- **FIDIC***(www.fidic.org)* International Federation of Consulting Engineers. FIDIC coorperates with other organisations internationally with the view of eliminating corruption.
- **Transparency International** *(www.transparency.org)* It is the world's largest non-governmental anti-corruption organisation with chapters in over 90 countries. TI's project 'Preventing Corruption on Construction Projects' aims to raise awareness of corruption in the sector, to develop anti-corruption tools and to promote the implementation of anti-corruption actions.
- **UK Anti-Corruption Forum** *(www.anticorruptionforum.org.uk)* The UK based organisation is an alliance of UK business associations, professional institutions, civil society organisations and companies with interest in the domestic and international infrastructure, construction and engineering sectors. The objective of the Forum is to promote industry –led actions which can help to eliminate corruption both domestically and internationally.
- **UN Global Compact** *(www.unglobalcompact.org)* The UN Global Compact seeks to promote responsible corporate citizenship. The 10th Principle states that 'Businesses should work against corruption in all forms, including extortion and bribery'.
- **U4 Anti-Corruption Resource Centre** *(www.u4.no)* – The Centre's mission is to make development aid more efficient by promoting an informed approach to anti-corruption.
- **WIN** *(www.waterintergritynetwork.net)* Water Integrity Network. WIN aims to fight corruption in water worldwide in order to reduce poverty.
- **WEF PACI** *(www.weforum.org)* World Economic Forum-Partnering against Corruption Initiative. This initiative comprised over 100 companies in the construction and engineering , mining and mineral and oil and gas sectors with a combined annual turnover of in excess of USD500 billion, have committed to zero tolerance of corruption by or within their organisations.
- **WFEO** *(www.wfeo.org)* World Federation of Engineering Organisations. It is an international umbrella for associations representing individual professional engineers. It ha formed an Anti-Corruption Standing Committee which is tasked with promoting anti-corruption actions internationally.

It is apparent that great efforts have been taken by various organisations as well as individuals to create awareness and provide information in combating corruption. It is a crime to engage in corruption. Anyone who does not prevent a crime when he or she can, encourages it.

Referring back to the GIACC initiative, the PAC System defined corruption to include "bribery, extortion, fraud, deception, collusion, cartels, abuse of power, embezzlement, trading in influence, money laundering, and any equivalent criminal offence" [1]. It also stated that "limiting corruption only to bribery would be a mistake, as it would miss other damaging criminal practices which can commonly occur on construction projects" [1].

In all these efforts the objective is "to help reduce project costs, improve project quality, provide a level playing ground for companies undertaking the works and services, reduce the risk of a project participant being a victim of corruption in that project and satisfy the public that corruption is being tackled" [1].

Locally the anti-corruption initiative is driven by the National Integrity Plan (NIP) launched by our Prime Minister in April 2004. Target 1 of the NIP Objectives 2004-2008 is "Effectively reduce corruption, malpractices and abuse of power". The main benchmark to this particular objective is "The international rating based on the Corruption Perception Index (CPI) developed by Transparency International. The score of 5.2 for Malaysia in the year 2003 will be improved to at least 6.5 by 2008 (10 being the best and 1.0 the worst), as well as the ranking of Malaysia improved from 37th to at least 30th."* ■

REFERENCES

[1] http://www.giaccentre.org/project_anti_corruption_system_home.php

[2] http://content.asce.org/files/pdf/COMBATINGCORRUPTIONanEngineersCharterwithendorsementsasof073007.pdf

[3] http://content.asce.org/global/principles/GlobalHomePage.html

* *[1]Bulletin Editor's note: The actual ranking for Malaysia in 2008 dropped to 47th instead, with a slightly reduced score of 5.1. Achieving our target score of 6.5 were instead Qatar, Spain, and Saint Vincent & the Grenadines. More sobering, in the years 2004 to 2008, the score was consistent at 5.0 or 5.1, while the rankings were 39, 39, 44, 43, and 47. (Source: http://www.transparency.org/policy_research/surveys_indices/cpi)*