To All Members, Date: 14 April 2008

CANDIDATES APPROVED TO SIT FOR YEAR 2008 PROFESSIONAL INTERVIEW

The following candidates have been approved to sit for the Professional Interview for 2008.

In accordance with Bylaws 3.7, the undermentioned names are published as having applied for membership of the Institution, subject to passing the year 2008 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.

Engr. Oon Chee Kheng, F.I.E.M., P.Eng.
Honorary Secretary, The Institution of Engineers, Malaysia

TRANSFER APPLICANTS

Membership No	Name	Qualifications
CHEMICAL ENGINEERING		
21990	KHOR BEE CHIN	BE (HONS) (QUEENS UNI OF BELFAST) (CHEM, 94)
28976	YONG SHU HWA	BE (HONS) (USM) (CHEM, 02)
CIVIL ENGINEERING		
27134	AZLI SHAH BIN ALI BASHAH	BE (HONS) (UTM) (CIVIL, 00) ME (UTM) (CIVIL – STRUCTURE, 06)
16746	AZMI BIN AZNAN	BE (HONS) (UITM) (CIVIL, 96)
24266	CH'NG AIK KEONG	BE (HONS) (USM) (CIVIL, 00
26873	HASMA BINTI ABDUL MUIN	ADV. DIP (UITM) (CIVIL, 91
11375	JAMALIAH BINTI RADZIAN	BSc (CALIFORNIA STATE) (CIVIL, 87)
24475	KAMARUZZAMAN BIN MD ARSHAD @ HASHIM	BE (HONS) (UTM) (CIVIL, 94)
27662	MARINI BINTI MOHAMAD IDERIS	BE (HONS) (UKM) (CIVIL, 00)
19916	QUAK BOON KWONG	BE (HONS) (UTM) (CIVIL- ENVIRONMENTAL, 01)
27138	ROSMADI BIN ZAMRI	BE (HONS) (UTM) (CIVIL, 04)
24535	SHAFINA BINTI SABARUDDIN	BE (HONS) (UTM) (CIVIL, 02)
24749	SHAHROL RIZAL BIN SAMSUDIN	BE (HONS) (UTM) (CIVIL, 03)
28838	TAN WANG KHAI	BE (HONS) (UTM) (CIVIL, 03)
25105	TEH MING SHEN	BE (HONS) (UTM) (CIVIL, 03)
ELECTRICAL ENGINEERING		
28017	BRANDON STEWART GALIMAN	PART II (IEM / BEM) (ELECT, 05) BE (HONS) (COVENTRY) (ELECT & E'TRONIC, 99)
16715	CHENG KEE WAY	BSc (TOLEDO) (ELECT, 94)
25875	LIM YOKE LEE	BE (HONS) (UKM) (ELECT & E'TRONIC, 04)
24146	MOHAMAD IKHRANIZAM BIN MOHD ROS	BE (HONS) (UNITEN) (ELECT & E'TRONIC, 00)
ELECTRONIC ENGINEERING		
22086	WEE SHIOU MENG, JASON	BE (HONS) (ROBERT GORDON) (E'TRONIC & ELECT, 00)
MECHANICAL ENGINEERING		
26479	CHEAH HUI CHENG	PART II (EC) (MECH, 03)
9109	DZUL FAHMI BIN MD NORDIN	BE (HONS) (UMIST) (MECH, 97)
22284	FELIX BONG NYUK POH	BE (HONS) (CANTERBURY) (MECH, 99) ME (CANTERBURY) (FIRE, 00)

NEW APPLICANTS

AERONAUTICAL ENGINEERING	
IBRAHIM BIN BAHARI	BSc (KINGSTON POLY) (AERONAUTICAL, 83) MSc (CRANFIELD) (AEROSPACE VEHICLE DESIGN, 93)
CIVIL ENGINEERING	
AB. RAHMAN BIN HASHIM	BE (HONS) (UM) (CIVIL, 87)
ABDUR RAHMAN AZZAM BIN CHE SOBRY	BE (HONS) (UTM) (CIVIL, 03)
CHEW CHEE MENG	BE (HONS) (UPM) (CIVIL, 93)
FAZILA BINTI MUSA	BE (HONS) (UTM) (CIVIL, 83)
HARTINI BINTI ALI	BE (HONS) (MONASH) (CIVIL, 86) ME (UTM) (CIVIL, 03)
HAZRIN BIN HAMDAN	BE (HONS) (UTM) (CIVIL, 99)
KHOO CHEE NGION	BE (HONS) (UM) (CIVIL, 76)
KONG WOOI HON	BE (HONS) (UTM) (CIVIL, 00)
LIM KIM SIONG	BE (HONS) (UTM) (CIVIL, 02)
MD UZAIRIN BIN SAIDIN	BSc (TOLEDO) (CIVIL, 84)
NAZERI BIN ZAINAL	BE (HONS) (UTM) (CIVIL, 92)
NOOR SALMAH REDUAN	BSc (GEORGE WASHINGTON) (CIVIL, 87) MSc (IHELDELFT, NETHERLANDS) (HYDRAULIC ENG,. 02)

NEW APPLICANTS

Name	Qualifications
NURAINI BT REJAB	ADV. DIP (UiTM) (CIVIL, 93)
RATNA RAJAN A / L SIVAPIRAGASAM	BE (HONS) (USM) (CIVIL, 99) MSc (UPM) (WATER RESOURCES ENG., 03)
TEOH BOON KEONG	BSc (SOUTWESTERN, LOUISIANA) (CIVIL, 88)
VASUKEY A / P PALANY KUMAR	BE (HONS) (UTM) (CIVIL, 98)
ZULFAIZAL BIN MAT ZIN	BE (HONS) (UTM) (CIVIL, 01)
ELECTRICAL ENGINEERING	
CHOO CHING YII	BE (HONS) (UPM) (ELECT & E'RONIC, 02)
HASSAN BIN MAHMUD	BSc (ROBERT GORDON) (E'TRONIC & ELECT, 83)
SIEW KIM TAN	BE (HONS) (UTM) (ELECT, 95)
ELECTRONIC ENGINEERING	
KESHMINDER SINGH	BSc (ROBERT GORDON) (E'TRONIC & ELECT, 98)
MECHANICAL ENGINEERING	
AHMAD KAMAL BIN ABD GHAFAR	BE (HONS) (COVENTRY) (MECH, 91)
HILMI BIN HAIRUDDIN	BE (HONS) (UTM) (MECH, 00)

ADMISSION/ELECTION/TRANSFER

The IEM Council, at its 361st meeting on 19 April 2008, approved the admission / election / transfer of a total of 943 members, consisting the following:

DISCIPLINES	MEMBERSHIP GRADES						
Disciplines	**Fellow**	**Member**	**Graduate**	**Incorporated**	**Associate**	**Student**	**Total**
Aeronautical	1	1					**2**
Aerospace						7	**7**
Agricultural							
Automotive							
Biochemical							
Biomedical			1				**1**
Biotechnology							
Building Services							
CAD / CAM							
Chemical		5	10			30	**45**
Civil	2	67	51		1	127	**248**
Communication							
Computer			1			1	**2**
Computer Systems							
Computer and Communication							
Control System							
Electrical and Electronic		1					**1**
Electrical		24	20		1	1	**46**
Electronic		8	8	1		4	**21**
Electromechanical							
Energy							
Environmental		1					**1**
Food and Process							
Geotechnical							
Highway							
Industrial							
Information System							
Information Technology							
Instrumentation			1				**1**
Instrumentation and Control							
Manufacturing							
Manufacturing System							
Marine							
Materials		1	2			50	**53**
Metallurgy							
Mechanical	1	17	40			333	**391**
Mechatronic			1			28	**29**
Microelectronic							
Mineral							
Mineral Resources						62	**62**
Mining							
Naval Architecture							
Polymer						31	**31**
Petroleum							
Structural							
Telecommunication			2				**2**
Water Resources							
TOTAL	**4**	**124**	**138**	**1**	**2**	**674**	**943**

The Members' names and qualifications are detailed below. The Institution congratulates the members on their admission / election / transfer.

Engr. Oon Chee Kheng, F.I.E.M., P.Eng.
Honorary Secretary,
The Institution of Engineers, Malaysia

TRANSFER TO THE GRADE OF FELLOW			
Membership No	**Discipline**	**Name**	**Qualification**
18791	AERONAUTICAL	MOHD KHIR BIN MUHAMMAD	BSc (WICHITA STATE) (AERO, 86)
14997	CIVIL	CHIEW CHUNG LEE	BSc (HONS) (TEESSIDE) (CIVIL, 87) MSc (LONDON) (STRUCT STEEL DESIGN, 90)
7155	CIVIL	ZUHAIRI BIN ABD. HAMID	BE (HONS) (UTM) (CIVIL, 84)
9774	MECHANICAL	CHENG CHEE SONG	BE (HONS) (NEW SOUTH WALES) (MECH, 85)

TRANSFER TO THE GRADE OF MEMBER

Name	Membership No	Qualification	Discipline
AHMAD SAIFUDDIN BIN ABDUL MANAF	23954	BE (HONS) (UPM) (AEROSPACE, 2002)	AERONAUTICAL
CHEONG SZE YIN	19980	BE (HONS) (UM) (CHEMICAL, 2001)	CHEMICAL
WONG KIE HIEN	25093	BSc (OKLAHOMA STATE) (CHEMICAL, 1999)	CHEMICAL
YEOH TIONG KIM, KENNETH	21663	BE (HONS) (ADELAIDE) (CHEMICAL, 2000)	CHEMICAL
ADRIAN NORBERT LEE	19186	BE (NEWCASTLE) (CIVIL, 1996)	CIVIL
AHMAD SHAUFFI BIN HJ. MOHAMAD SHARKAWI	21641	BE (HONS) (PLYMOUTH) (CIVIL, 1997)	CIVIL
ASNIZAM BIN AHMAD	25564	BE (HONS) (UTM)(CIVIL, 2001)	CIVIL
ASYRAN BIN ROSLI	28377	BE (HONS) (UTM) (CIVIL, 2000)	CIVIL
AZHAR BIN YUSOF	24377	BE (HONS) (UTM) (CIVIL, 2003)	CIVIL
CHAN KENG LUM	20361	BE (HONS) (MIDDLESEX POLYTECHNIC) (CIVIL, 1987)	CIVIL
CHAN YAN LOON	22665	BE (HONS) (USM) (CIVIL, 2000)	CIVIL
CHANG CHEE CHEONG	15793	BE (THE NAT. UNI. OF S'PORE) (CIVIL, 1986)	CIVIL
CHENG HEANG SWEE	26952	BE (HONS) (MONASH) (CIVIL, 2000)	CIVIL
CHEONG TZUU SHYI	26480	BE (PLYMOUTH) (CIVIL, 2002)	CIVIL
CHOO KHIM TZE, IRENE	21428	BE (HONS) (BIRMINGHAM) (CIVIL, 1999)	CIVIL
GOH JOON SAI	22384	BE (HONS) (USM) (CIVIL, 2001)	CIVIL
HOE TIAN HEE	22417	BSc (MISSISSIPPI STATE) (CIVIL, 2000)	CIVIL
JAYA CHANDAR A / L POLOHA NADAN	17051	BE (HONS) (UTM) (CIVIL, 1994)	CIVIL
KAMAL AZAM BIN SAIDIN	18560	BE (HONS) (USM) (CIVIL, 1994)	CIVIL
KHOO HUI KWANG	22451	BE (HONS) (UMS) (CIVIL, 2000)	CIVIL
KOH CHEE YONG	21659	BE (HONS) (NOTTINGHAM) (CIVIL, 2000)	CIVIL
KOK KIM CHAI	20704	BE (HONS) (UTM) (CIVIL, 1999)	CIVIL
LAU KIM HWA	17729	BE (HONS) (UM) (CIVIL, 1999)	CIVIL
LEE WAI KIN	22261	BE (HONS) (UKM) (CIVIL & STRUCTURAL, 1999)	CIVIL
LOW CHEN SENG	21390	BE (HONS) (QUEEN'S UNI. BELFAST) (CIVIL, 1999)	CIVIL
MAZLAN BIN MUSA	19326	BE (HONS) (UITM) (CIVIL, 2001)	CIVIL
MOHD. AMINUDDIN BIN OTHMAN	25131	BE (HONS) (MALAYA) (CIVIL,2002)	CIVIL
MOHD. FAIZAL BIN ATAN	19399	BE (HONS) (PORTSMOUTH UNI.) (CIVIL, 1997)	CIVIL
MOHD. KHIR BIN ABDUL RAHMAN	27136	BE (HONS) (UTM) (CIVIL, 2002)	CIVIL
MOHD. RITHAUDDIN BIN SUHAIMI	23909	BE (HONS) (UKM) (CIVIL & ENVI, 2002)	CIVIL
MUHAMAD SHUKRI RAHIMI BIN ZAINOL ABIDIN	21590	BSc (MISSOURI) (CIVIL, 1989)	CIVIL
MUHAMMAD ZULHAZMI BIN ISMAIL	15627	BE (HONS) (UTM) (CIVIL, 1993)	CIVIL
NG VUN PING	13383	BE (NEW SOUTH WALES) (CIVIL, 1989)	CIVIL
ONG CHEE WEE	20293	BE (HONS) (UPM) (CIVIL, 1999)	CIVIL
ONG PANG WEI	18474	BSc (UNI. OF KANVAS) (CIVIL, 1997)	CIVIL
ONG YONG TONG	15328	BE (HONS) (UTM) (CIVIL,1993)	CIVIL
OOI SUYI	22423	BE (HONS) (UMS) (CIVIL, 2000)	CIVIL
SIM HUI KHENG	19167	BSc (HONS) (UTM) (CIVIL, 1998)	CIVIL
SIOU HUI MENG, ELLINNA	24251	BE (HONS) (UPM) (CIVIL, 2000)	CIVIL
SITI BADRIAH BINTI ISHAK	20396	BE (HONS) (UTM) (CIVIL, 1985)	CIVIL
TAN CHEE YEN	24336	BE (HONS) (KUITTHO) (CIVIL, 2002)	CIVIL
TAN HAN KIAT	25511	BE (HONS) (UTM) (CIVIL, 2003)	CIVIL
TAN SIOK LOOI	12865	BE (HONS) (UM) (CIVIL, 1990)	CIVIL
TAN WEE PENG	19903	BE (HONS) (UTM) (CIVIL, 2001)	CIVIL
TEH GUAN HOON	21058	BE (HONS) (UPM) (CIVIL, 2002)	CIVIL
VENGIDESH A / L RATNASAMY	20949	BE (HONS) (UPM) (CIVIL, 1996)	CIVIL
WONG YEW WEI	18808	BE (HONS) (UNI. BIRMINGHAM) (CIVIL, 1998)	CIVIL
YEO SZE LOONG, AARON	20526	BE (HONS) (QUEEN'S UNIV.) (CIVIL, 1999)	CIVIL
YONG KOK WAI	19327	BE (HONS) (UTM) (CIVIL, 1999)	CIVIL
YONG LIP BING	22039	BE (HONS) (VICTORIA UNV.) (CIVIL, 2001)	CIVIL
ZAINAL ABIDIN BIN POWZIE	9106	BSc (HONS) (STRATHCLYDE) (CIVIL, 1983)	CIVIL
ZAINAL BIN SAMAD	15572	BSc (UNI. OF SOUTHERN CALIFORNIA) (CIVIL, 1986)	CIVIL
BOBBY ANAK ANYAN	19041	BSc (MISSISSIPPI) (ELECTRICAL, 1996)	ELECTRICAL
MOHAMAD NOR BIN OTHMAN	24212	BE (HONS) (UTM) (ELECTRICAL, 2002)	ELECTRICAL
MOHD. NIZAM BIN MOHD. NAWI	22892	BE (HONS) (UTM) (ELECTRICAL, 2003)	ELECTRICAL
OOI SU LOONG	21349	BSc (WEST. MICHIGAN) (ELECTRICAL, 1996)	ELECTRICAL
SHAIMILA JEYABALA	28977	BE (HONS) (UTM) (ELECTRICAL, 2000)	ELECTRICAL
SUGUMAR A / L SHUNMUGAM	18126	BE (HONS) (UTM) (ELECTRICAL, 1998)	ELECTRICAL
TAN TI HAUR	23693	BE (HONS) (N.U S'PORE) (ELECTRICAL, 2002)	ELECTRICAL
TENGKU KAHAR MUZAFFAR BIN TENGKU M.Y. ANUAR	15758	BSc (PENNSYLVANIA) (ELECTRICAL, 1993)	ELECTRICAL
WONG KOK KIONG	21669	BSc (HONS) (MICHIGAN STATE) (ELECTRICAL,1998)	ELECTRICAL
YEE SIEW HUAT	24947	BE (HONS) (UTM) (ELECTRICAL, 2002)	ELECTRICAL
ZAHROL BIN AHMAT	25778	BSc (ARIZONA) (ELECTRICAL, 1996)	ELECTRICAL
ZULKARNAIN BIN ZOLKAFLIL	25654	BSc (RENSSELAER) (ELECTRICAL POWER, 2003)	ELECTRICAL
HAIRUL AZHAR BIN ABDUL RASHID	18958	BE (HONS) (UNV. LONDON) (ELECTRICAL & ELECTRONIC, 1997)	ELECTRONIC
LIM SHENG SHYAN	21985	BE (HONS) (LEEDS) (ELECTRONIC & ELECTRICAL, 1997)	ELECTRONIC
NG CHOO HEAN, RONNIE	21371	BE (HONS) (UNITEN) (ELECTRICAL & ELECTRONIC, 2002)	ELECTRONIC
NG THIAW SENG	24780	BE (HONS) (MMU) (ELECTRONIC, 2001)	ELECTRONIC
SIM KOK SWEE	24339	MSc (WAYNE STATE) (ELECTRICAL, 1991)	
		ME (NUS) (2002), PhD (MMU) (2006)	
		BE (FENG CHIA, TAIWAN) (ELECTRICAL, 1988)	ELECTRONIC
SHANTINI A / P RETNARAJ	23690	BE (HONS) (USM) (MATERIALS, 1999)	MATERIALS
AHMAD BIN JAAFAR @ JAFAR	9892	BE (HONS) (UTM) (MECHANICAL, 1987)	MECHANICAL
CHAN KA SEONG	26465	BE (HONS) (UTM) (MECHANICAL, 2002)	MECHANICAL
CHE SHARIFUDDIN BIN ABDUL RAZAK	24812	BSc (MISSOURI, USA) (MECHANICAL, 1994)	MECHANICAL
CHOW CHIN SEANG	25525	BE (HONS) (UTM) (MNFG,1999)	MECHANICAL
FAN CHUN YUEN	23943	BE (HONS) (LEEDS) (MECHANICAL, 2000)	MECHANICAL
HUSSIN BIN MAMAT	25187	BE (HONS) (USM) (MECHANICAL, 1995)	MECHANICAL
KANNAN A / L M. MUNISAMY	24327	BE (HONS) (UNITEN) (MECHANICAL, 2000)	MECHANICAL
KOH YEOW LEUNG	24930	BE (HONS) (MONASH) (MECHANICAL, 1999)	MECHANICAL
LAI YEE KEIN	20372	BE (HONS) (UPM) (MECHANICAL, 1999)	MECHANICAL
MOHD AZHARI BIN CHE OMAR	26855	BE (HONS) (UTM) (MECH-AERONAUTICS, 2001)	MECHANICAL
NG CHEE SING	26399	BE (HONS) (UTM) (MECHANICAL, 2003)	MECHANICAL
YII HUONG SWEE	22609	BE (HONS) (CANTERBURY) (MECHANICAL, 2001)	MECHANICAL
PASS PROFESSIONAL ASSESSMENT (PAE)			
YEAP GEOK NGOH	23513	BE (HONS) (USM) (CIVIL, 2001)	CIVIL
LOO JIA JAD, ADRIEL	22015	BE (HONS) (WESTERN AUST) (ELECTRICAL & ELECTRONIC, 1999)	ELECTRICAL
MOHAMAD ASRI BIN YUSOFF	22152	BSc (TRI-STATE, INDIANA) (ELECTRICAL, 1997)	ELECTRICAL
FOONG CHEE WAI	20563	BE (HONS) (SHEFFIELD HALLAM) (MECH. & MANUFACTURING, 1997)	MECHANICAL

ELECTION TO THE GRADE OF MEMBER

Name	Qualifications	Discipline
LIM SUE CHIN	BE (HONS) (UPM) (CHEMICAL, 2000)	CHEMICAL
TEH HENG KEE	BE (HONS) (UKM) (CHEMICAL, 1996)	CHEMICAL
ABDULLAH BIN ABD. RAHMAN	BSc (CARDIFF WALES UNV.) (CIVIL & STRUC. 1979)	CIVIL
AMRULLAH BIN KAMAL @ AMBRULLAH	BSc (QUEEN MARY COLLEGE) (CIVIL, 1983)	CIVIL
FAZIDAH BINTI KAMSARI	BSc (NORTHEASTERN UNI.) (CIVIL, 1988)	CIVIL
JUZAILAN BIN ZAINAL	BE (HONS) (PORTSMOUTH) (CIVIL, 1996)	CIVIL
KU ADENAN BIN KU ISMAIL	BE (HONS) (UTM) (CIVIL, 2000)	CIVIL
LAI LIANG KOONG	BE (HONS) (STRATHCLYDE UNI.) (CIVIL, 1987)	CIVIL
MOHAMAD BIN AWANG	BE (HONS) (MIDDLESEX POLYTECHNIC) (CIVIL, 1988)	CIVIL
MOHAMAD SUAIMI BIN RAMLI	BE (HONS) (UM) (CIVIL, 1998)	CIVIL
MOHD. RADZI BIN MUSTAFFA	BE (HONS) (UTM) (CIVIL, 1985)	CIVIL
MOHD. ZAIDI BIN ZAINAL	BE (HONS) (UTM) (CIVIL,2000)	CIVIL
MOHD. ZAKRI BIN AMRAN	BE (HONS) (UTM) (CIVIL, 1996)	CIVIL
MUSFA BIN MOHAMAD	BE (HONS) (UTM) (CIVIL,2001)	CIVIL
SAM TUCK HENG	BSc (MISSISSIPPI STATE) (CIVIL, 1994)	CIVIL
SIM WEE HIN	BE (HONS) (WESTERN. AUST.) (CIVIL, 2000)	CIVIL
TAN BOON KEAN, STEPHEN	BE ()HONS) (USM) (CIVIL, 1999)	CIVIL
ABDUL SAMAD BIN SULAIMAN	BE (HONS) (UTM) (ELECTRICAL, 2000)	ELECTRICAL
HEANG CHEE TONG	BE (HONS) (UM) (ELECTRICAL, 1999)	ELECTRICAL
ISMAIL BIN YAAKOB	BE (HONS) (UNI. WOLLONGONG) (ELECTRICAL, 1992)	ELECTRICAL
LIEW HOCK CHENG, KINGTON	BSc (SALFORD) (ELECTRICAL, 1984)	ELECTRICAL
MOHD. AZMAN BIN HASSAN	BE (HONS) (UWIST) (ELECTRICAL & ELECTRONIC, 1985)	ELECTRICAL
MOHD. YUNUS BIN HAMID	BSc (WICHITA STATE UNI.) (ELECTRICAL, 1998)	ELECTRICAL
SANKAR A /L NARAPPAN	BE (HONS) (UM) (ELECTRICAL, 1999)	ELECTRICAL
ZAINUDDIN BIN MOHAMED	BE (HONS) (UTM) (ELECTRICAL, 2000)	ELECTRICAL
ZURAIDAH BINTI MUHAMAD	BSc (SOUTHERN COLIFORNIA UNI.) (ELECTRICAL, 1990)	ELECTRICAL
LEONG KIM PEOW	BSc (HONS) (LOUGHBOROUGH) (ELECTRICAL & ELECTRONIC, 1983)	ELECTRICAL / ELECTRONIC
WAN MOHD. SUHAIMI BIN WAN JAAFAR	BE (HONS) (UTM) (ELECTRICAL, 1997)	ELECTRIONIC
LEE SENG KEAT, DANIEL	BE (HONS) (BIRMINGHAM) (ELECTRICAL & ELECTRONIC, 1999)	ELECTRONIC
MOKHTARUDIN BIN ABDUL RAZAK	BE (HONS) (LEEDS) (ELECTRONIC, 1997)	ELECTRONIC
MUHAMAD RESDI BIN ABDUL MANAF	BE (HONS) (ELECTRICAL, 2003)	ELECTRONIC
HOONG FARN CHEONG, ALVIN	BE (HONS) (UM) (MECHANICAL, 2001)	MECHANICAL
LIM CHIN SIONG, GERALD	BE (HONS) (UPM) (MECHANICAL, 1999)	MECHANICAL
MOHAMAD KHALIS BIN HJ MD YASIN	BE (HONS) (SHEFFIELD HALLAM UNI.) (MECHANICAL & MNFG. ENGR, 1998)	MECHANICAL
MOHD. NAZRI BIN MAT HAN	BSc (SUNDERLAND POLYTECHNIC) (MECHANICAL, 1986)	MECHANICAL
PASS PROFESSIONAL ASSESSMENT (PAE)		
BEAK KAH ON	BE (HONS) (UTM) (CIVIL, 1995)	CIVIL
RIZAL BIN ABU BAKAR	BE (HONS) (UiTM) (CIVIL, 2000)	CIVIL
TAN JIUNN SHYH	BSc (LOUISIANA) (CIVIL, 1986)	CIVIL

TRANSFER TO THE GRADE OF GRADUATE

Membership No	Discipline	Name	Qualification
13932	CIVIL	MARIANI BINTI MURI	BE (HONS) (UPM) (CIVIL,94)
23404	CIVIL	KHAIRIAH BINTI BAHARUDDIN	BE (HONS) (UiTM) (CIVIL,06)
25151	ELECTRICAL	NAZZRUL EFFENDY BIN NORDIN	BE (HONS) (UiTM) (ELECT.,06)
24046	MECHANICAL	HO YIN KIAT @ VINCENT	BE (HONS) (MONAS UNI.) (MECH.,04)
24049	MECHANICAL	TEOH HUAN SHIM	BSc (KANAGAWA UNI.) (MECH.,07)
26555	MECHANICAL	YAP YUN SIONG, STANLEY	BE (HONS) (UPM) (MECH.,07)

ADMISSION TO THE GRADE OF GRADUATE

Discipline	Name	Qualifications
BIOMEDICAL	EE KAR HENG	BE (HONS) (UM) (BIOMEDICAL.,06)
CHEMICAL	ASMIZAM BIN MOHAMAD	BE (HONS) (UTM) (CHEMICAL, 00)
CHEMICAL	CHAN WAI CHOONG	BSc (HONS) (N.YORK UNI.) (CHEMICAL.,05)
CHEMICAL	CHONG MEI FONG	BE (HONS) (UTM) (CHEMICAL.,04)
CHEMICAL	CHOW WAN MAE	BE (HONS) (UKM) (CHEM.,07)
CHEMICAL	CHUAH TEE LIN	BSc (FLORIDA) (CHEM.,94)
		MSc (RICE UNI.) (CHEM.,96)
CHEMICAL	FAM HON KOON	BE (HONS) (UPM) (CHEM.,04)
CHEMICAL	HII HIONG WEI	BE (HONS) (UKM) (CHEM, 04)
CHEMICAL	MOHAMMAD SOBRI BIN MOHAMAD	BE (HONS) (UKM) (CHEMICAL.,06)
CHEMICAL	NG KOK SUM	BE (HONS) (UTM) (CHEM.,06)
CHEMICAL	ZAKI YAMANI BIN ZAKARIA	BE (HONS) (BRADFORD UNI.) (CHEM ,99)
		ME (UTM) (CHEM.,04)
CIVIL	AMISAH BINTI ZAKARIAH	BE (HONS) (UiTM) (CIVIL,05)
CIVIL	ARIZA BINTI GAZALEE	BE (HONS) (UTM) (CIVIL.,94)
CIVIL	AZMAN BIN YUSUF	BE (HONS) (USM) (CIVIL,97)
CIVIL	CHONG KHEE HWA	BE (HONS) (TASMANIA UNI.) (CIVIL, 06)
CIVIL	DEXTER ANAK TERREN	BE (HONS) (UiTM) (CIVIL.,07)
CIVIL	GOPINATH MUNIANDY	BE (HONS) (UTM) (CIVIL.,06)
CIVIL	HAFIZ BIN AHMAD	BE (HONS) (UTM) (CIVIL, 06)
CIVIL	HASLINA BIN MOHD YAHYA	BE (HONS) (UTM) (CIVIL-ENVIRONMENTAL, 00)
CIVIL	KIRK GERALD LEBONA	BE (HONS) (USM) (CIVIL.,02)
CIVIL	LEE CHIN HOE	BE (HONS) (UM) (CIVIL,99)
		MSc (NAT.UNI.S'PORE) (CIVIL,03)
CIVIL	LEOW CHENG SIANG	BE (HONS) (USM) (CIVIL.,06)
CIVIL	LIM SENG CHOON	BE (HONS) (UTM) (CIVIL.,02)
CIVIL	LOOI KOK WAH	BE (HONS) (UPM) (CIVIL.,04)
CIVIL	MAIZATUL AZREEN BINTI MOKHTAR	BE (HONS) (UiTM) (CIVIL.,07)
CIVIL	MANNA WASALWA BINTI MOHAMMAD	BE (HONS) (UTP) (CIVIL, 05)
CIVIL	MOHD. AZMER BIN RAMLAN	ME (HONS) (OXFORD UNI.) (CIVIL.,05)
CIVIL	MOHD. DALIAS BIN AWI	BE (HONS) (UTM) (CIVIL.,88)
CIVIL	MOHD. DZULKARNAIN BIN MOHD. JAME	BE (HONS) (UTHM) (CIVIL.,03)
CIVIL	MOHD. LOKMAN BIN HJ. MOHD LASIM @ AHMAD	BE (HONS) (UTM) (CIVIL.,00)
CIVIL	MOHD. SHAFIQ BIN ZOLKIFLY	BE (HONS) (UTM) (CIVIL,03)
CIVIL	MOHD. SHUKRI BIN YUSOF	BE (HONS) (UTM) (CIVIL.,04)
CIVIL	MUHAMMAD ZUHAIRI BIN MUHAMAD NOR	BE (HONS) (UPM) (CIVIL.,03)

ADMISSION TO THE GRADE OF GRADUATE

Discipline	Name	Qualifications
CIVIL	NG KOK SHIEN	BE (HONS) (UTM) (CIVIL.,04)
		ME (UTM) (CIVIL-GEOTECHNIC.,05)
CIVIL	NIK KHAIRUL NIZAM BIN NIK AHMAD ARDAS	BE (HONS) (UTM) (CIVIL, 04)
CIVIL	NORFAZLIN BINTI MOHD FATIMI	BE (HONS) (UTM) (CIVIL, 06)
CIVIL	NORHELMI BIN ISMAIL	BE (HONS) (UTM) (CIVIL,00)
CIVIL	NUR RUZAINI BINTI AB RAZAK	BE (HONS) (UKM) (CIVIL,02)
CIVIL	NUR SYAFAWATI BINTI SULAIMAN	BE (HONS) (UiTM) (CIVIL.,07)
CIVIL	ONG PENG PHENG	BE (HONS) (UTHM) (CIVIL-CONSTRUCTION.,07)
CIVIL	PARNAM SINGH A / L MEHAR SINGH	MSc (QUEEN'S UNI.) (CIVIL.,89)
CIVIL	PHUAH PHEI GUAN	BE (HONS) (UTHM) (CIVIL,06)
CIVIL	PUTERI YULIANTY BINTI SAMSUDIN	BE (HONS) (USM) (CIVIL.,06)
CIVIL	ROSAFIZAWATI BINTI SUIB	BE (HONS) (UTM) (CIVIL.,06)
CIVIL	ROWENA MALINI A / P THANGAVELOO	BE (HONS) (UTM) (CIVIL.,00)
CIVIL	SAFARI BIN HJ. MAT DESA	BE (HONS) (UTM) (CIVIL.,02)
CIVIL	SHU SIEW SIEW	BE (HONS) (PORTSMOUTH) (CIVIL,97)
CIVIL	SHUHAIRY BIN NORHISHAM	BE (HONS) (UNITEN) (CIVIL,08)
CIVIL	SUFFIAN BIN SLAMAT	BE (HONS) (UTM) (CIVIL, 05)
CIVIL	SURIA BINTI HARON	BE (HONS) (UTM) (CIVIL.,91)
		MSc (USM) (CIVIL.,06)
CIVIL	SYAZWAN BIN MD. AKIR	BE (HONS) (UiTM) (CIVIL.,06)
CIVIL	TAN CAI LOON	BE (HONS) (UTM) (CIVIL.,05)
		MSc (UTM) (CONST.-MGMT.,06)
CIVIL	TAN MUI LIANG	BE (HONS) (UTM) (CIVIL.,03)
CIVIL	TEE CHEE LIK	BE (HONS) (UTM) (CIVIL.,07)
CIVIL	TENGKU MOHD. FAIDZIL BIN TENGKU MOHD. EDHAM	BE (HONS) (UiTM) (CIVIL,06)
CIVIL	TIONG KAI SIONG	BE (HONS) (PLYMOUTH UNI.) (CIVIL,02)
CIVIL	WONG CHEN JACK	BE (HONS) (MELBOURNE) (CIVIL.,06)
CIVIL	WONG TECK LOON	BE (HONS) (UTM) (CIVIL.,06)
CIVIL	ZARINA BINTI ABDULLAH	BE (HONS) (UNI. LONDON) (CIVIL, 01)
COMPUTER	ANTHONY YEAP HOCK CHAI	BE (HONS) (UTM) (COMPUTER,00)
ELECTRICAL	ABDUL RASHID MOHAMED	BE (HONS) (UTM) (ELECT.,05)
ELECTRICAL	BENJAMIN TOH MIN JOO	BE (HONS) (CURTIN) (ELECT.,05)
ELECTRICAL	FADZLI BIN JASNI	BE (HONS) (UTM) (ELECT.,04)
ELECTRICAL	IRWAN BIN ISMAIL	BE (HONS) (UTP) (ELECT. & E'TRONIC.,03)
ELECTRICAL	LEE KOK CHEUNG	BSc (ROBERT GORDON UNI.) (E'TRONIC & ELECT.,98)
ELECTRICAL	LOGESWARAN / AL SELVARATNAM	BE (HONS) (UNITEN) (ELECT.-POWER, 06)
ELECTRICAL	LOKE ENG GAN	BE (HONS) (USM) (ELECT.,04)
ELECTRICAL	M.KUMARAN A / L MARIMUTHU	IEM / BEM - PART 11 (ELECT.,03)
ELECTRICAL	MOHD TAUFIK BIN DAUD	BE (HONS) (UiTM) (ELECT.,06)
ELECTRICAL	MUHAMMAD HAFIZUDDIN BIN MOHAMAD	BE (HONS) (UM) (ELECT.,06)
ELECTRICAL	MUHD ABU BAKAR BIN MOHD RADZI	BE (HONS) (UTM) (ELECT.,06)
ELECTRICAL	NASRUL HISHAM BIN ABDUL HALIM	BE (HONS) (UTM) (ELECT.,03)
ELECTRICAL	PUI SHUK FOON	BE (WESTERN AUST.) (ELECT. & E'TRONIC,02)
ELECTRICAL	ROSLAN BIN MOHAMED YUSOF	BE (HONS) (USM) (ELECT.,02)
ELECTRICAL	TIANG KWONG HWO	BE (HONS) (CURTIN) (ELECT.,05)
ELECTRICAL	WAN MAHRIMI BIN WAN AMBAK	BSc (LAMAR UNI.) (ELECT.,89)
ELECTRICAL	WONG CHOON KIAT	BE (HONS) (UNITEN) (ELECT.POWER,06)
ELECTRICAL	WONG YEW HOONG	BE (HONS) (UMS) (ELECT. &E'TRONIC.,06)
ELECTRICAL	ZAFENDI BIN MOHD ISA	BE (HONS) (GANNON UNI.) (ELECT.,93)
ELECTRONIC	ABDUL MANAF BIN HASHIM	BE (NAGAOKA UNI.) (E'TRONIC.,97)
		ME (NAGAOKA) (E'TRONIC.,99)
ELECTRONIC	CHEW LAI KIM	BE (HONS) (MMU) (E'TRONIC,03)
ELECTRONIC	DENNIS LIM TIANG SIANG	BE (HONS) (BIRMINGHAM UNI.) (ELECT. & E'TRONIC.,00)
ELECTRONIC	MASWADY BIN MASKIN	BE (HONS) (UTHM) (ELECT.,06)
ELECTRONIC	MUHAMMAD FIRDAUS BIN KAMARUDDIN	BE (HONS) (UTM) (ELECT.-MECHATRONIC.,05)
ELECTRONIC	MUHAMMAD SUHAIMI BIN SULONG	BE (HONS) (UTHM) (ELECT.,02)
ELECTRONIC	MURALY A / L RATANASAMY	BE (HONS) (UNITEN) (E'TRONIC,07)
ELECTRONIC	ZUKHAIRI BIN OMAR	BE (HONS) (UPM) (ELECT. & E'TRONIC.,04)
ENVIRONMENTAL	NORAZLINA BINTI AB HALIM	BE (HONS) (UM) (ENVIRONMENTAL.,03)
INSTRUMENTATION	UMI HANI BINTI MUSTAFA	BE (HONS) (UTP) (ELECT. & E'TRONIC.,04)
MATERIAL	MOHD NOOR FAHMI BIN WICHI	BE (HONS) (USM) (MATERIALS, 04)
MATERIAL	NUR SOFURAH BINTI MOHD FAIZ	BE (HONS) (USM) (MATERIAL.,02)
MECHANICAL	ABDULLAH BIN WAGIMAN	BSc (HONS) (UTM) (MECH.,01)
		ME (UM) (ENG.,07)
MECHANICAL	AL EMRAN BIN ISMAIL	BE (HONS) (UPM) (MECH.,00)
		MSc (UiTM) (MECH.,04)
MECHANICAL	AMIR HASANUDDIN BIN HASHIM	BE (HONS) (UTM) (MECH.,07)
MECHANICAL	ANDY GOH CHIA LIANG	BE (HONS) (USM) (MECH.,06)
MECHANICAL	ANJUNA LEE FOONG YEE	BE (HONS) (UTP) (MECH.,05)
MECHANICAL	ARMAN BIN ARIFFIN	BE (HONS) (UTM) (MECH.,05)
MECHANICAL	ASRIFUL NAZMAN BIN ITHNIN	BE (HONS) (UPM) (MECH.,01)
MECHANICAL	AZMAIZAM BIN MOHD ZAIN	BSc (ARKANSAS UNI.) (ENGINEERING.,89)
MECHANICAL	CHIOK WEA FOONG	BE (HONS) (UTM) (MECH-MNFG.,07)
MECHANICAL	GHAZALI BIN SAFIE	BE (HONS) (UTM) (MECH.,06)
MECHANICAL	HAJI NAJMUDDIN BIN HAJI JAAFAR	BE (HONS) (UTM) (MECH.,95)
MECHANICAL	ICAHRI BIN HJ. CHATTA	BE (HONS) (UTM) (MECH.,00)
MECHANICAL	LAU SUN WAH	BE (HONS) (USM) (MECH.,04)
MECHANICAL	LEE KOK SIONG	BE (HONS) (PORSTMOUNTH) (MECH.,99)
MECHANICAL	MAZELAN BIN RAMLI	BE (HONS) (UiTM) (MECH.,01)
MECHANICAL	MOHAMAD FAISAL BIN ISMAIL	BE (HONS) (UPM) (MECH.,03)
MECHANICAL	MOHD AZALI BIN USMAN	BE (HONS) (ADELAIDE) (MECH.,98)
MECHANICAL	MOHD FAHMI BIN MOHAMAD JAAFAR	BE (HONS) (UNITEN) (MECH.,07)
MECHANICAL	MOHD HIFZAN BIN SHAFIEE	BE (HONS) (USM) (MECH.,07)
MECHANICAL	MOHD RUZAIMI BIN MAT REJAB	BE (HONS) (UTM) (MECH.,02)
MECHANICAL	MOHD SHAHRULNIZAM BIN AHMAD	BE (HONS) (UTHM) (MECH.,07)
MECHANICAL	MOORTHY A / L PAKISAMY	BE (HONS) (UTM) (MECH.,05)
MECHANICAL	MURSYIDI BIN MOHAMMAD	BE (HONS) (AUCKLAND) (MECH.,07)
MECHANICAL	RAFEZI BIN HAZIZI	BE (HONS) (UTM) (MECH.-MARINE TECH.,03)
MECHANICAL	SAW CHUN LIN	BSc (HONS) (UTM) (MECH.,01)
MECHANICAL	SEE YEEKIN	BE (HONS) (UTM) (MECH.-INDUSTRIAL.,00)
MECHANICAL	SHAMSUL BAHARI BIN AZRAAI	BE (HONS) (UPM) (MECH.,94)
		MSc (USM) (MECH.,05)
MECHANICAL	SUKMINDAR SINGH	BE (HONS) (UNITEN) (MECH.,07)
MECHANICAL	SYAMSUL ARIFFIN BIN MOHD RAMLI	BE (HONS) (UNITEN) (MECH.,07)

ADMISSION TO THE GRADE OF GRADUATE		
Discipline	**Name**	**Qualifications**
MECHANICAL	TAN BEE KIAN	BSc (SOUTH ALABAMA) (MECH.,01) MSc (KANSAS) (MECH.,03)
MECHANICAL	TAN CHEW PHENG	BE (HONS) (UTM) (MECH.-AERONAUTICS.,01) ME (USM) (MECH.,07)
MECHANICAL	TAN HUCK TEE	PART I & II (IEM / BEM) (MECH, 04)
MECHANICAL	TUEN WAI KEONG	BSc (MISSOURI) (MECH.,00)
MECHANICAL	WAN AZHAR BIN WAN YUSOFF	BSc (MICHIGAN UNI.) (MECH.,89)
MECHANICAL	WAN MUHAMMAD HAZIM BIN WAN YUSOF	BE (HONS) (USM) (MECH.,06)
MECHANICAL	YAHYA NURUDDIN BIN MUHAMAD SAHIR	BE (HONS) (UNITEN) (MECH.,05)
MECHANICAL	ZAIDIL ABDILLA BIN AHMAD SALEHHUDDIN	BE (HONS) (UTM) (MECH.-MARINE TECH.,02)
MECHATRONIC	VAN TECK LOON	BE (HONS) (ADELAIDE) (MECHATRONIC,05)
TELECOMMUNICATION	LIM KUAN GUAN, DEREK	BE (HONS) (ADELAIDE UNI.) (TELECOMMUNICATION.,06)
TELECOMMUNICATION	SUMEETA A / P RBHANOO	BE (HONS) (MMU) (E'TRONIC-TELEC0MMUNICATIONS.,03)

ADMISSION TO THE GRADE OF INCORPORATED MEMBER		
Discipline	**Name**	**Qualifications**
ELECTRONIC	RASHID ABDELHALEEM SAEED	BE (SUDAN UNI. & SC. & TECH.) (E'TRONIC,99) MSc (KARARY ACAD.& TECH, SUDAN) (COMM. ENG, 02) Ph.D (UPM) (COMM ENG.,08)

ADMISSION LISTS

The list of members approved for admission to the grade of student will be printed in the June 2008 issue of the IEM Bulletin.

Thank You.

CONGRATULATIONS

The Council and Management of IEM would like to congratulate the following members for being appointed as Adjunct Professors of the Civil Engineering Department, UNITEN in acknowledgement of their expertise and outstanding personalities effective from 1 April 2008.

a) Y. Bhg. Datuk Paduka Engr. Hj. Keizrul bin Abdullah, President, The Institution of Engineers, Malaysia;

b) Engr. Gue See Sew, Chief Executive Officer, G&P Professionals Sdn Bhd; and

c) Engr. Prof. Dr Mohd. Sabri bin Abdullah, Managing Director, DRSA Consulting Sdn Bhd.

Their appointment were based on a few criteria such as their vast experience and knowledge to enhance the teaching, research and development, innovation and to help in the continuous improvement of the quality of our Civil Engineering Department students to meet the industry's needs, and to better prepare and equip our students when they enter the competitive job market.

HEARTIEST CONGRATULATIONS

The Council and Management of IEM would like to congratulate the following award recipients who being received their awards in conjunction with the Sultan of Perak, Sultan Azlan Muhibbudin Shah Ibni Al-Marhum Sultan Yussuf Izzudin Shah Ghafarullahu-Lah's 80th Birthday on 19 April 2008. They are as follows:-

a) Y.A.B. Engr. Mohammad Nizar bin Jamaluddin, MIEM, P.Eng. – Menteri Besar Perak – on being conferred the Darjah Seri Paduka Mahkota Perak (SPMP) which carries the title of 'Datuk Seri'

b) Engr. Prof. Dr Radin Umar bin Radin Sohadi, FIEM, P.Eng. – Director-General of the Malaysian Institute of Road Safety Research (MIROS) – on being conferred the Darjah Dato' Paduka Mahkota Perak (DPMP) which carries the title of 'Datuk'

c) Y.B. Dato' Engr. Hj. Mohd. Zin bin Mohamed, MIEM, P.Eng. – Minister of Works

d) Y.B. Dato' Ong Tee Keat – Minister of Transport (Engineer)

e) Y.B. Dato' Shaziman bin Abu Mansor – Minister of Energy, Water and Communications (Engineer)

f) Y.B. Engr. Dr Wee Ka Siong, MIEM, P.Eng. – Deputy Minister of Education

IEM DIARY OF EVENTS 2008

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 for further information and forms.

Young Engineers (G&S Section, IEM)
30 - 31 MAY 2008
Time: 8.30 a.m. - 5.00 p.m.
2 Day Course on "Understanding Construction Contracts"
Speaker: Engr. Oon Chee Kheng
Venue: Seminar & Conference Centre, 15th Floor, Menara PKNS, Jalan Yong Shook Lin, PJ
Fees: (a) IEM G/S - RM200.00
(b) IEM Member - RM250.00
(c) Non IEM Member - RM350.00
(Invitation to Register)

28 JUNE 2008
Time: 2.00 p.m. - 4.00 p.m.
38th AGM of YES G & S Section, IEM
Venue: 2nd Floor, Conference Hall, IEM
(Invitation to Register)

Agricultural and Food Engineering Technical Division
25 JUNE 2008
Time: 5.30 p.m. - 7.30 p.m.
Talk on 'Zero Waste Discharge Solution for Oil Palm Mills'
Speaker: Various presenter
Venue: 2nd Floor, Conference Hall, IEM
(Invitation to Register)

Oil, Gas and Mining Technical Division
27 JUNE 2008
Time: 9.00 a.m. - 5.00 p.m.
One Day Course on Steam Boiler Operations and Trouble Sootings, Inspections, Repair and Maintenance
Speaker: Engr. Mohd. Normarzuki bin Ya'acob
Venue: 2nd Floor, Conference Hall, IEM
(Invitation to Register)

Civil & Structural Engineering Technical Division
30 JUNE & 1 JULY 2008
Seminar on "Forensic Engineering for Civil, Structural and Geotechnical Engineers – Technical and Legal Issues"
Speaker: Various presenter
Venue: 2nd Floor, Conference Hall, IEM
Fees: (a) IEM Student Members-RM 350.00
(b) IEM Graduate Members-RM 450.00
(c) IEM Corporate Members-RM550.00
(d) Non Members-RM 800.00
(Invitation to Register)

18 JULY 2008
Time: 9.00 a.m. - 12.00 p.m.
1/2 Day Seminar on "Hilti Fastening Academy 2008"
Venue: 2nd Floor, Conference Hall, IEM
Fees: (a) IEM Member - RM40.00
(b) IEM Corparate Member - RM70.00
(c) Non IEM Member - RM100.00
(Invitation to Register)

Project Management Technical Division
16-18 NOVEMBER 2008
International Conference on Project Management (IC_OPM) 2008
Speaker: Various presenter
(Call for papers)

IEM BRANCH UPCOMING EVENT
Sarawak Branch
23-25 MARCH 2009
8th WCEE Congress 2009 : Engineering and Education in the 21st Century of Young Engineers
Patron: YAB Pehin Sri Tan Sri Hj. Abdul Taib Mahmud
Venue: Kuching, Sarawak
(Call for Papers and Invitation to Register)

CONFERENCE & SEMINAR 2008/2009

Malaysia
26- - 27 May 2008
INTERNATIONAL CONFERENCE ON GEOTECHNICAL AND HIGHWAY ENGINEERING (GEOTROPIKA 2008)
Speaker: Various presenter
Venue: Best Western Premier Seri Pacific Hotel, KL
Fees: (a) IEM Member - RM300.00
(b) Non IEM Member - RM400.00
(Invitation to Register)

16 – 20 June 2008
INTERNATIONAL CONFERENCE ON CONSTRUCTION AND BUILDING TECHNOLOGY 2008
Venue: Grand Seasons Hotel, Kuala Lumpur
Organiser: Universiti Tenaga Nasional, University Teknologi PETRONAS and International Association of Concrete Technology (IACT)
Website: http://www.uniten.edu.my/
Email: kamal@uniten.edu.my
(Call for registrations)

2-4 March 2009
10TH INTERNATIONAL CONFERENCE ON CONCRETE ENGINEERING AND TECHNOLOGY 2009 (CONCET 2009)
Venue: Shah Alam, Selangor
Organiser: Faculty of Civil Engineering, Universiti Teknologi MARA, IEM and UM
Tel : (603) 5543 3311/6163/5256/6426
(Ms.Che Maznah/Ms.Lee/Ms.Norliyati)
Fax : (603) 5543 5275
Email : concet09@gmail.com
Website: http://www.fce.uitm.edu.my/concet

Singapore
23 – 27 June 2008
SINGAPORE INTERNATIONAL WATER WEEK 2008
Venue: Suntec Singapore International Convention and Exhibition Centre (SIWW)
Tel: (+65) 6731 3160 Fax: (+65) 6731 9456
E-mail: info@siww.com.sg, su_pei_lin@pub.gov.sg (Ms. Pei Lin) or james_goh@pub.gov.sg (Mr. James Goh)
Website: http://www.siww.com.sg
(Call for papers and invitation to register)

Korea
18 – 21 August 2008
THE 12TH ASIAN CONGRESS OF FLUID MECHANICS (12ACFM)
Venue: Daejeon Convention Center, Daejeon, Korea
Tel: (+82) 869 5027 Fax: (+82) 869 5023
E-mail: 12acfm@gmail.com
Website: http://www.12acfm.org
(Call for papers and invitation to register)

Vietnam
11 – 13 November 2008
THE 3RD ACF INTERNATIONAL CONFERENCE ACF/VCA -2008
Venue: Rex Hotel, HoChiMinh City, Vietnam
Organiser: Asian Concrete Federation ACF
Tel: (84) 8481111 Fax: (84) 8581112
E-mail: thethirdconf@vibm.vn (Dr Luong Duc Long)
Website: http://www.acf-org.com/
(Call for papers and invitation to register)

Taiwan
19 – 21 November 2008
2ND ANNOUNCEMENT AND CALL FOR PAPERS EASEC-11 (BUILDING A SUSTAINABLE ENVIRONMENT)
Venue: Taipei International Convention Center, Taipei, Taiwan
Organiser: National Taiwan University
Tel: 886 2 33664275
Fax: 886 2 23631558
E-mail: dchen@ntu.edu.tw (Prof. C.S. David Chen)
Website: http://easec11.easec.org/
(Call for papers and invitation to register)

Thailand
26 – 29 November 2008
26TH CAFEO ON INTERDISCIPLINARY AND TRANSBOUNDARY ENGINEERING IN ASEAN
Venue: Sofitel Centara Grand Bangkok Hotel (formaly Sofitel Central Plaza Bangkok Hotel)
Organiser: IET
c/o The Institution of Engineers, Malaysia
P.O Box 223 (Jalan Sultan)
46720 Petaling Jaya,
Selangor Darul Ehsan
Tel: (603) 79684001/4002
Fax: (603) 79577678
E-mail: sec@iem.org.my
(Call for papers and invitation to register)

A Total Waste Treatment Solution for Malaysian Palm Oil Mill - From Wastes Recycling to Usefull Fertilisers

By: Engr. Dr Cheong Thiam Fook, FIEM, P.Eng. and Mr. Mun K. Y.

Palm oil wastes remain a problem to the environment and a headache to mill operators. There is a serious need to identify a total solution / technology for the industry to turn palm oil mill wastes into high-value organic fertilisers by a simple-to-operate waste treatment plant using a proven and developed composting / enrichment process.

Upon completion of the composting and enrichment process within approximately 21 days, it will supply high-grade organic fertilisers to palm oil plantations at prices that are cost competitive compared to chemical fertilisers, with the benefits of cost savings and higher palm oil yield to plantations.

In addition to the local market's consumption, a portion of high grade organic fertilisers may be off-take for the export market, plus the potential for Carbon Emissions Reductions (CER) trading as an additional revenue stream is unique to this technology.

This unique and innovative composting process is called In-Vessel Composting Process (IVCP). It uses a set of concealed concrete tunnels to accelerate the composting of organic wastes by high-technology process engineering that is fully automated by computer controls.

The process can convert empty fruit bunch (EFB) and palm oil mill effluent (POME) into high grade organic fertilisers using a bio-organic formula developed locally in Malaysia specifically for palm oil wastes.

IVCP is a proven technology that is very compact, simple and low cost to operate, environmentally friendly, and unlike other waste process, it recovers clean water while POME is composted with EFB into organic fertiliser. Distinct advantageous features that make IVCP unique are:

- IVCP can process an enormous quantity of wastes rapidly and efficiently. It reduces the natural composting period from 60 days to 21 days.
- The process is fully automated and computer controlled, is not affected by weather and requires minimal supervision. It can operate continuously 24 hours a day, seven days a week, in any weather condition.
- A normal sized IVCP composting plant net footprint needs only a small area of about 10,000m^2. Compared to other composting methods, IVCP can save more than 3 hectares in land area that can be used to plant more palm trees. The area saved can yield about 100 tonnes of palm oil per annum from palm trees not displaced by a huge waste treatment plant.
- It can treat POME, recovers clean water from POME, and has the potential to capture CER sale which is not possible with the current aeration pond treatment or other composting methods.
- Overtime, IVCP can reduce the number of POME treatment ponds significantly. The recovered areas can be used to plant more palm oil trees.
- Simple plant operation with minimal skills and a tiny workforce.
- The composting plant design is modular and can be easily scaled up to suit the wastes discharges of much larger mills.
- The IVPC is completely environmentally friendly. The unique composting process will eliminate odour and liquid wastes, and result in zero emission and zero leachate. The process meets the stringent European and Malaysian DOE emission / discharge standards.

An IVCP project can create new values on many levels for various stakeholders in the palm oil industry which involves the following:

1. Palm Oil Mill which provides the land and feedstock :
- Palm mill will have an onsite capacity to treat EFB, boiler ash, decanter sludge and 50% POME. A total of about 15,000 tonnes of palm oil mill wastes can be treated by the IVCP per year.
- The plant can be easily expanded to process 45 tonnes / hour of mill wastes or more.
- Treating mill wastes adjacent to existing palm oil mill can create significant savings in EFB transport and disposal costs, POME dosing and effluent treatment costs.
- IVC can recover clean water from POME for palm mill use as part of the treatment process.

2. Investors in IVCP Plant who provide the funds :
- An IVCP plant can produce high-grade organic fertilisers for sale as new revenues.
- The composting of POME can generate potential CER of carbon dioxide for CER trading in global emission markets in accordance with UN methodology.

3. Palm Oil Plantation which takes the organic fertiliser :
- Make significant cost savings in fertilisers used in palm plantations, by applying organic fertilisers produced directly from IVCP plants adjacent to the palm mill.
- Overtime, land recovery from POME aeration treatment pond can be reused for plantation purposes.
- High-grade organic fertilisers produced using special biotechnology has been proven to produce higher palm oil yields, improve soil structure and strengthen palm oil biodiversity in the long term.

4. Engineers and technologists who provide the technology and knowhow to build the plant and operate for its profitability. The full project from conceptual design, construction, equipment delivery and implementation will take 12-18 months, depending on plant location, site access and availability of site infrastructure, excluding authority approval time. There is minimal risk to a palm oil mill or palm oil plantation, as the engineering design, technology, equipment and plant construction can be delivered fully financed by various experts in their own field and would be a total and long term solution for the Malaysian Palm Oil Industry. ■

The Renewable Energy Initiatives in Malaysia

By: Engr. Dr Cheong Thiam Fook, M.E.T.D

With economic growth, industrialisation and increasing population, Malaysian is a fast growing and developing country with a rate of energy demand more than those developed countries. More importantly, Malaysia depends upon largely the conventional energy resources. There has been warning calls from the government and public/private sectors that Energy Efficiency(EE) and Energy Conversation (EC) Policy be implemented to reduce the consumption of conventional energy resources to prolong the use of depleting fossil fuels in the country/world, and to reduce the emission of Green House Gases which prevent serious global warning and climate change.

Besides calling for EE / EC policy, the government and NGOs with the assistance of foreign expertise and financial aids, the promotion and implementation of Renewable Energy (RE) initiatives is being aggressively launched such as the Pusat Tenaga Malaysia (PTM) National Suria 1000 project for Building integrated Photovoltaic (BiPV) and the solar hot water system for some government projects.

Availability of REs in Malaysia can be classified as follows :

1. **Solar Energy (PV Electricity)**
   Malaysia is situated near the equator and enjoys abundant sunlight during most of the day and Solar PV and Hot Water Heating Collector Systems shall be the best for our use particularly for those remote islands and inaccessible areas.

2. **Wind Energy (Turbine Mechanical and Electrical)**
   Our country has a long coastline fronting the windy sea and its good grounds to harness wind energy via windmills for water pumping irrigation/drainage to agricultural crops. Water pumps driven directly from windmills are ideal non-stop pumping equipment for irrigation and have been proven very successful in our neighbouring countries such as Thailand. Power generation from windmills/turbines can also be coupled with Solar PV System to provide round the clock and reliable power supply to those remote islands and isolated coastal areas.

3. **Hydropower Energy (Electricity)**
   The mountainous geographical regime of East Malaysia provides great potential for hydropower generation plant such as Bakun HydroPower Plant which is under construction. However, it must be recognised that smaller hydropower potentials (mini or micro) shall be viable in the less hilly West Malaysia remote jungles where the "Orang Asli" live and require electricity and water supply.

4. **Plantation BioMass Energy (Steam and Electricity)**
   The Equatorial Rain Forest Climate has gifted Malaysia plenty of natural forestry and provides conducive environment for the cultivation of palm oil plantation in a big scale. As most of the palm oil mills are located in the remote location of the plantation and national grid power is not economically available, many mill operators have turned to Biomass Empty Fruit Bunch (EFB) fueled Heating and Power Plant System to generate both steam and power for their mill operations. There are other technologies to convert the EFB and other organic wastes to useful fuel oil or solid fuels such as briquettes.

5. **BioGas Energy (CH_4 and C_2H_2)**
   This is a natural anaerobic decomposition of stagnant wastes discharged from various sources into a main detention pond. The collection of the emitted methane(CH_4) can be treated before it is used for power generation.
   The other source of Biogas is recovered from solid waste landfill sites and there are success story for such project in the Southern Malaysia State where Biogas is used to generate 250 KW of electric power for in-plant consumption.

The REs potential in Malaysia is very promising and encouraging but there are many barriers for us to overcome in the near future if we are committed to implement these RE projects successfully :

1. The Technical Barriers to all REs production include high capital investment costs of the various technologies and equipment and the lack of emerging Biomass / Biogas conversion technologies. The poor performance of some past projects have also prompted a risky investment for some manufacturers and entrepreneurs and there is a shortage of information / data of national RE resource base to defuse the success stories of RE projects in Malaysia.
2. The Financial Barriers to REs production are the high energy production costs, difficulty in accessing traditional finance, non-availability of government incentives, government subsidies for energy production from fossils fuels (natural gas) and the extremely low energy costs in Malaysia.

The lack of interest for existing capital markets to take up small scale RE project investments in another setback.

3. The Institutional Barriers include the lack of promotions and coordination among various government agencies and lack of formal mechanism for their interaction on a regular basis with the private sector. The lack of a designated agency for promoting REs particularly on the coordination of Solar PV projects for the rural/ remote areas and the electrification of schools in East Malaysia.

4. The Policy Barriers include unclear, indistinctive, supportive and biased (in favour of conventional energy sources) government policies and absence of long term national strategy/priority for promoting REs use.

In view of the various barriers identified above, there is a need from the Malaysian Government to make serious commitments to implement the RE projects in the near future and the government has to make radical changes to the energy policy and power generation and Power Purchase Agreements with small-scale investors or even the householders.

The current Power Purchase Agreements (PPA) Policy is the most basic policy to be reviewed by the government for small RE Independent Power Production Projects to be viable. Innovative PPAs shall be developed for small scale RE producers to sell electricity to the TNB grid at a different price that gives the investors a reasonable return / profit. Such incentive will give the small-scale RE project developers the necessary financial support to ensure the viability of this future sustainable RE projects. ■

Workshop and Lectures on Geotechnical Design by Prof. John Atkinson

By: Engr. Yee Yew Weng, *MIEM, P.Eng.*

PART 1 – DESIGN WORKSHOPS

A workshop on the 'Determination of Soil Parameters for Geotechnical Design' was held for three separate groups of engineers on 3, 4 and 6 December 2007. The classroom style course was conducted by Prof. John Atkinson from City University, London and Principal of Coffey and Partners, the United Kingdom. Each sitting was limited to 20 'students' to encourage interaction and maximise the learning experience. In total, the course accommodated 56 engineers. Each full day workshop was divided into four sessions.

1) Soil Description

In the first session, the basis and objective of ground description were introduced. Detailed descriptions of ground by type (soil / rock), strength, grain size and shape, colour, state, geological features and water content were explained. Prof. Atkinson emphasised that it is essential to understand these basic soil characteristics before a conclusion on ground behaviour can be drawn.

2) Soil Behaviour

In the second session, Prof. Atkinson reminded that the designer has to recognise the probable modes of failure in his design model. On the platform of this understanding, the engineer should select the appropriate design soil parameters. He elaborated on the difference between the Ultimate Limit State (e.g. relating to structure stability) and Serviceability Limit

State (e.g. relating to settlements). For example, the high factor of safety applied to pile design (normally two to three) may be to limit a settlement rather than just purely a bearing capacity consideration.

Prof. Atkinson also deliberated on the distinction between 'drained' and 'undrained' soil parameters. The governing criterion is dependent on the physical condition encountered. For example, in deep excavation design, drained parameters and the ultimate state are the controlling factors. On the other hand, the design of foundation should normally consider undrained parameters and serviceability state.

3) Soil Laboratory Tests

After lunch, Prof. Atkinson argued that few engineers comprehend laboratory equipment and even fewer have visited a commercial laboratory. He felt that many engineers were specifying tests and using results of those tests without a clear understanding of what has been done and what the results really mean. He stressed that understanding laboratory test procedures and test equipments are fundamental to a proper design.

Prof. Atkinson also gave an example that a low friction angle commonly obtained in undrained unconsolidated test is a result of a poorly saturated test sample. A knowledgeable designer would not be confused by such results and would not apply erroneous findings in his engineering design.

4) Application in Design

Some examples were used in this session to illustrate how basic design parameters can be used to derive reliable engineering solutions for slope stability and water seepage problems.

Prof. Atkinson repeated the above course at the IEM Sabah Branch, Kota Kinabalu, on 8 December, 2007, which was attended by 24 participant.

PART 2 – EVENING LECTURE

Besides conducting workshops, Prof. Atkinson also kindly obliged IEM's request to present a one hour lecture on 'Failures' on 3 December, 2007. A capacity crowd of 120 people were privileged enough to hear Prof. share the principles of Geotechnical Design using real life examples of past failures.

Prof. Atkinson started the talk by giving his definition of failure – 'unplanned outcome that resulted in loss'. Failures due to collapse and excessive movement can cause inconvenience and loss of life. However, too little movement

and over conservatism in design can also be considered as a failure if it leads to unnecessary loss.

Prof. Atkinson used some real examples of past failures to illustrate his point. He mentioned that the definition of failure is dependent on the governing criterion be it movement or purpose. He also stressed that engineers should investigate failures thoroughly with the aim of learning from them.

Prof. Atkinson further explained that some common mistakes that have caused failures are:

(i) Unforeseen ground condition

He highlighted that unforeseen ground conditions, though often used as an excuse, are rarely the cause of failures. Many of these cases actually boil down to inadequate site investigation. He gave a real example of tunnelling works through expansive clay due to unforeseen ground conditions.

(ii) Misunderstanding of soil mechanics

Prof. Atkinson mentioned that most engineers mistakenly believe that sand is 'frictional' and clay is 'cohesive', and a landslide occurs after heavy rain because the water lubricates soil. A simple experiment was shown to the floor that clay is stronger than sand in unconfined condition, due to negative pore water pressure. He stressed that the selection of 'drained' and 'undrained' parameters, and design strength (residual, peak or ultimate) has to be understood to avoid failure.

(iii) Incorrect analysis

Prof. Atkinson reminded the engineers in attendance that a geotechnical analysis is not done for the sake of authority approval. He showed an example of erroneous excavation analysis from southern London. The resultant repair works resulted in the site being the most expensive back yard in England, using a combination of bored pile and sheet pile. The Nicoll highway collapse in Singapore also resulted from wrong geotechnical analysis.

(iv) Poor workmanship

Prof. Atkinson showed photographs of foundations that failed due to poor supervision and poor workmanship. He asserted that poor workmanship equates to poor engineering.

A short Q&A session proceeded after the talk, which ended with an appreciative applause from the floor. Engr. Yee Yew Weng, Chairman of the Geotechnical Engineering Technical Division, thanked the Prof. for volunteering his time to conduct the workshops and lectures in Malaysia, and presented a memento to him.

The talk was repeated at the IEM Kota Kinabalu Branch on 7 December 2008. ■

ANNOUNCEMENT

9TH INTERNATIONAL HEAT PIPE SYMPOSIUM

BEM APPROVED
CPD HOURS: 20
REF. NO.: IEM08/PP/004/S

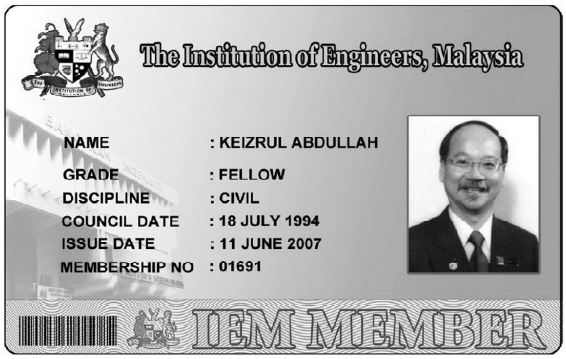
November 17–20, 2008
Monash University Sunway Campus, Malaysia
http://www.monash.edu.my/events/91HPS

Organised by:
Monash University

Sponsored by:
OYL Research and Development Centre,
The Institution of Engineers, Malaysia (IEM)

Sponsored by:
The Japan Association for Heat Pipe
Fujikura Ltd., Japan
Institution of Mechanical Engineers (Malaysia Branch)

IEM NEW MEMBERSHIP CARD



With effect from 1 January 2008, IEM had been introducing a new IEM membership card for all members. The new card had been designed to include bar code features as provision for future expansion. The bar code feature is to facilitate CPD recording, door access as well as use of library services in future. It is hoped that these additional features would assist IEM to provide better and more efficient service to our members. Members who have not collected the renew card could submit a "scanned" passport sized photograph (softcopy) in JPEG format and then email to iemphoto@gmail.com. Kindly indicate your name, membership number and grade. You may also contact IEM Secretariat at 603-79684001 / 79684002 for an appointment for your photo to be taken.

Thank you for your co-operation.

Talk on Construction of Roads and Highways over Peat

By: Engr. Yee Yew Weng, *M.I.E.M., P.Eng*

Engr. Dr Toh Cheng Teik delivered a talk on the construction of roads and highways over peat on 22 August 2007. The talk was attended by over 100 engineers. The lecture material was based on Engr. Dr Toh's and Engr. Chee Sai Kim's experience with design and construction on peat in Malaysia and overseas since 1990.

Malaysia has a significant area of peat, estimated at about 25,000 km. In terms of the total area of peat land, Malaysia is ranked ninth in terms of the largest area of peat land, together with Canada. Peat land in Malaysia is found in Johor, Terengganu, Selangor, Perak, Sabah and many of the low lying areas of Sarawak.

There are several published classification schemes for peat and these include the agricultural based Von Post System, the American and French systems and that by Landva. There is also various local terminology as to the type of peat. Terms like fibrous, amorphous, ombrogeneous, topogeneous, degrees of decomposition are in use and this adds to the confusion of the meaning of the descriptive term used.

The speaker is of the opinion that the most meaningful manner in describing peat is to relate it to some basic properties such as natural moisture content, ash content, ignition loss and organic content.

There are two different manners in which peat is deposited, resulting in what is known as the basin or dome peat that rises above the surrounding ground and valley peat. Both manners of depositions were presented.

The two issues faced by engineers when placing fill over peat are:

- Controlled method of filling so that there is no loss of fill over peat resulting in mudwaves, excessive lateral displacement and loss of control; and
- Settlement.

The method of filling over peat involves mainly the lowering of ground water by surface drainage so as to enable peat over the top 1.0 m to dry out. This then serves as a thick layer of interlocking fibres of high friction angle that will be able to support equipment on a thin fill without the problems of mudwaves. Once the first layer is in place, the placement of fill can be carried out in a controlled manner.

In areas where drainage cannot be carried out, the speaker recommended the use of the bamboo-geotextile fascine mattress. Alternately, if the area is near the sea or river and is accessible by barges, hydraulic sand filling can be carried out. All these methods of achieving controlled fill placement were illustrated by photographs taken from several projects.

Settlement estimates may be carried out reasonably accurately using the classical Terzaghi consolidation theory. Parameters such as bulk density, void ratio, the coefficient of compressibility and the coefficient of consolidation are all related to basic properties such as natural moisture content and organic content.

Therefore, soil investigation in peat should be aimed at profiling and retrieving disturbed samples for testing the natural moisture content and organic content. The correlations of settlement parameters for these basic properties were presented.

When building embankments on peat, it is necessary to make use of gain in strength for stability. The high fibre content gives rise to friction angles in excess of 40 degrees. Some local data and a large amount of tests on peat carried out overseas were presented to illustrate this point. Distinctly different from marine clays, the su / po' is much higher in the order of 0.5 to 0.7.

Several case histories, complete with monitoring results, were used to illustrate the principals. These included:

- Miri By-Pass Road (stage construction and surcharge)
- MJ Development, Batu Kawa, Kuching (stage construction and preload)
- Oya – Balingian road (preloading)
- Matang Highway (hydraulic sand fill and preload)
- Sylhet bridge approach embankment (Bangladesh) using stage construction and geotextile reinforcement.
- Excavation and replacement for North South Expressway – Air Hitam to Senai.

The speaker also presented the use of EPS polystyrene as a floating road developed jointly with the Sibu Municipal Council.

Settlement due merely to the lowering of ground water for agriculture was also highlighted to illustrate the effects of decomposition of exposed peat when peat land is reclaimed for agricultural purposes. Long term measurements from New Zealand were presented.

Lastly, the speaker drew attention to the related environmental issues invovled, specifically carbon emission from peat fires after the lowering of ground water and the destruction of wildlife. The need for the preservation of peat swamps was given emphasis.

The talk ended at 7.00 p.m. and the audience thanked Engr. Dr. Toh with a round of applause. ■

SPECIAL ANNOUNCEMENT

ERRATA

We refer to the feature article published in March 2008 page 14 of the blue pages. Please be informed that Engr. Tu Yong Eng affiliation should be read as MIEM, P.Eng and not Grad. IEM.

The Editorial Board would like to apologise to Engr. Tu Yong Eng on the error on the misidentified affiliation.

Thank you.

A CONDOLENCE MESSAGE

With deep sadness, the IEM Council would like to announce the demise of **Engr. Fong Chek Fong,** MIEM, P.Eng. **(M 02570)** and wish to extend condolences to the family.

The Institution would like to thank him for his past support and contribution.