



THE INSTITUTION OF ENGINEERS, MALAYSIA MIRI BRANCH

ENGINEERS' NEWSLETTER

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IEM Miri Branch

Address: Lot 2935, 2nd Floor Faradale Commercial Centre, Jalan Bulan Sabit, 98000 Miri Sarawak.

Tel: +6 085 423718 Fax: +6 085 424718

Email: iem.miri@streamyx.com Website: <http://www.iem-miri.netmyne.com/>

COMING SOON.....!!!

IEM Roadshow in Sarawak Shell Berhad (SSB), Lutong - July 2007

Advanced Electrical Power System Studies with Extensive Use of
SKM Power* Tools for Windows - September 2007

CUTSE 2007 - November 2007



Cover Story: In progress construction of a four-legged jacket on one of the Sarawak offshore.

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IEM Miri Branch Activities Executed From March to June 2007:**1. CONTINUING PROFESSIONAL DEVELOPMENT COURSES**

IEM Miri has successfully organized the following Continuing Professional Development Courses at IEM Miri Training Centre during March 2007:

- Payments & Variations / delay, Extension of Time & Damages in Engineering and construction Contracts which was attended by 36 participants from Miri and Bintulu.
- BEM Mandatory Course on Engineering Management Practice which was attended by 16 participants from Miri.

2. COURTESY CALL TO PETRONAS CARIGALI SDN BHD

On 4th April 2007, IEM Excomm Members paid a courtesy call to Mr Bacho Bin Piong, General Manager of Sarawak Operations of Petronas Carigali Sdn Bhd (PCSB) at their Lutong Office. Also present are Encik Rosdin (Senior Manager), Azwan Ashari (Mechanical Engineer) and Mr Hee Len Hi and representative of of PCSB's Young Professional Club (YPC).

Ir. Chiew Chung Lee (IEM Miri Chairman) gave a presentation on the role of IEM and Board of Engineer, Malaysia (BEM) followed by Q&A Session. IEM Miri shall arrange another Forum and Membership Drive with PCSB.

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AGREEMENT OF CO-OPERATION (AOC) BETWEEN IEM AND EA (ENGINEERS AUSTRALIA)

Engr. PE Chong, *F.I.E.M., P.Eng*

Chairman, IEM Standing Committee on Corporate Affairs

On 3 December 2006, IEM renewed their existing AOC with EA at a simple ceremony at IEM Headquarters in Petaling Jaya.

For the information of IEM members, the AOC will facilitate membership into EA as spelled out clearly in Clause 6 – **“Reciprocal Recognition for Membership”**

- 6.1 The two organizations agree to recognize as equivalent in substance and standard the criteria and procedures by which EA admits persons to the status of Chartered Professional Engineer and IEM admits persons to the status of Corporate Member. Each organization requires:
- An engineering degree accredited or recognized by the organization, or qualifications gained by other means and formally assessed by the organization as equivalent, to the standard represented by the Washington Accord;
 - A period of professional formation and responsible experience in engineering environments under the general supervision of the organization;
 - Evidence of continuing professional development;
 - Submission of an engineering practice report in the organisation's prescribed format;
 - Satisfactory performance at a professional interview conducted by not less than two qualified representatives of the organization.
- 6.2 A person who, having met the requirements in Clause 6.1, has been admitted as a Corporate Member of IEM and remains in good standing, will normally be admitted as a Member and Chartered Professional Engineer by EA without formal examination or interview.
- 6.3 A person who, having met the requirements in Clause 6.1, has been admitted as a Chartered Professional Engineer by EA and remains in good standing, will normally be admitted as a Corporate Member of IEM without formal examination but an interview is however necessary.
- 6.4 A member of one organization seeking admission to membership of the other organization under this Agreement should make application in the normal format prescribed by the receiving organization. The supporting material required should comprise the candidate's professional Curriculum Vitae plus evidence of their existing membership. It should not be necessary to submit all the detailed documentation normally required in support of an application.
- 6.5 The receiving organization will seek certification from the candidate's existing organization of their current standing as a member. Such certification, if satisfactory, will be accepted as evidence that the requirements set out in Clause 6.1 have been met, and accepted in lieu of personal references or statement of support from members of the receiving organization.
- 6.6 While recognizing the equivalence in professional standing of the individuals concerned, the two organizations agree that admission to the grade of Fellow should be handled within the receiving organization according to its own procedures, rather than by automatic transfer.
- 6.7 Each organization will maintain its own fee structures and administrative systems but will simplify the admission process for candidates applying under this Agreement, as far as is reasonably possible. No entrance fee will be charged to candidates admitted under this Agreement. Normal annual subscriptions will be payable.
- 6.8 This Agreement applies only to those members who have been admitted to membership of their respective organization through its own admission procedures and eligibility criteria. It does not apply to members of either organizations who have become members through reciprocal recognition or similar arrangements with third organizations.
- 6.9 Each organization retains full discretion as to the admission of any person to any grade of membership. However, where an individual who is a member in good standing of one of the two organizations applies for membership of the other organization under this Agreement, and is refused admission to membership in the equivalent grade as set out above, details of the reason for refusal will be notified to the original organization.

The AOC will facilitate Corporate members of IEM wanting to be Member and Chartered Professional Engineer of EA.

**ADVANCED ELECTRICAL POWER SYSTEM STUDIES
WITH EXTENSIVE USE OF SKM POWER*TOOLS FOR WINDOWS
Jointly organised by IEM Miri Branch and Sarawak Shell Berhad**

INTRODUCTION

INTRODUCTION

The four and half-day course begins with power system studies and the basis of protection and fault level computations before commencing on the essence of protection grading. The purpose of this course is to take away the mystique behind all the technical jargon and it further facilitates practical power system studies and application on existing power system.

At the end of the course, participants will understand the only tools needed for fault analysis and protection grading are Ohm's Law – and a lot of common sense.

OBJECTIVES

- To introduce various concepts in short-circuit studies.
- To understand the settings of typical protection relays for transformers, generators and motors.
- To have an advanced understanding and practices of SKM Power Tools for Window (PTW)

BEM Approved
CPD HOURS: 36
Ref
No: IEM07/Miri/191/C

COURSE CONTENTS

The course will concentrate on the theory for 3 days, which will equip participants with the ability to carry out fault analysis and to select the "right" fault currents for different purposes. Remaining times will deal with worked examples and tutorials for protection relay co-ordination.

SKM Modules covered are (1) DAPPER (2) CAPTOR (3) IEC 60909 (4) TMS (5) HI_WAVE (6) I*SIM

TARGET AUDIENCE

This course is for both junior and senior electrical engineers as well as those specifically interested in short-circuit studies and protection relay setting.

It is suitable for technical managers and practising engineers who intend to gain an advanced appreciation of electrical power systems with use of SKM PTW.

PROGRAM AND COURSE OUTLINE:

Sep 3, 2007

08:00 Fundamentals of Short-Circuit Currents
09:00 Per Unit System
10:15 Use of Symmetrical Components for Fault Analysis
11:15 Overcurrent-Earth Fault Relays
12:00 Lunch
13:00 Discrimination of Protective Devices
14:30 Behaviour of Generators And Motors
16:00 Introduction to SKM PTW
17:00 End of Day 1

Sep 4, 2007

08:00 Load Flow Study
09:00 Outage Study
11:00 Voltage Dip During Motor Starting
12:00 Lunch
13:00 Fault Analysis
14:30 Overcurrent-Earth Fault Protection Relay Grading
16:00 PTW New Features Summary
17:00 End of Day 2

Sep 5, 2007

08:00 Scenario Manager
09:00 Customising PTW Libraries & Printforms
10:00 Introduction to IEC 909 for Short-Circuit Studies
11:00 Transient Motor Starting
12:00 Lunch
13:00 Harmonics in AC Power Systems
14:00 Generator Stability
15:15 Final SKM Demonstration
17:00 End

Sep 6, 2007

08:00 Introduction to E11 Hub Power System/Lutong Power System
09:00 Practical SKM Power Tool Application on E11 Hub/Lutong Power System
12:00 Lunch
13:00 Practical SKM Power Tool Application on E11 Hub/Lutong Power System
15:00 Power System Databank and Setup
16:00 Conclusion of E11 Hub/Lutong Power System Studies and report preparation
17:00 End of Day 4

Sep 7, 2007

08:00 Protection Relay Coordination Technique and Application for E11 Hub/Lutong
10:00 Discussion on specific SKM applications
11:30 Lunch
13:00 End

For the application form, please contact IEM Miri Branch

PROFILE OF SPEAKER

Ir. Lee Chong Kiaw is a 1974 electrical engineering graduate from Strathclyde University, Glasgow. He also has a M.Sc. in Power System Engineering.

He was previously the Engineering Manager of Tamco Corporate Holdings Sdn Bhd, which manufactures indoor medium- and low-voltage switchgear. Prior to that, he spent more than 15 years working as a protection engineer in the former National Electricity Board and another five years in a large consultancy practice. He is also a certified competent/service engineer up to 275kV.

He currently specializes in providing technical training of electrical courses and performing system studies.

Through his activities in Institution of Engineers Malaysia, he has organised several courses and seminars in a number of fields such as Earthing, Lightning Protection, Harmonics, Medium Voltage Indoor Switchgear and IEE Wiring Regulations. He has also conducted courses related to his specialist area in protection in this region and several countries in Africa.

Of late, he has trained more than two thousand participants from electricity utilities, petrochemical industry and multi-national companies throughout Malaysia as well as in Singapore and Brunei on Power System Protection, Basic Electrical Engineering, Applications, Operation & Maintenance of Electrical Equipment, Commissioning of Power Transformers, Protection & Starting of Induction Motors, Medium & Low Voltage Switchgear, Electrical Safety and Electrical System Studies.

REGISTRATION

To cover for the costs of the event, a fee of **RM2,100.00** will be charged to all participants. Fees must be paid **BEFORE** the commencement of the event. Bookings by fax must be forwarded with payments the day before the event is due to commence. IEM/SSB reserves the right to reschedule, allocate or cancel the event.

2007 Curtin University of Technology Sarawak Engineering (CUTSE 2007) Congress

Jointly organised by IEM Miri Branch and Curtin University of Technology (Sarawak Campus)

INTRODUCTION AND SCOPE

CUTSE 2007 is the second Engineering Conference jointly organised by the School of Engineering, Curtin Sarawak Malaysia (CSM) and IEM Miri Branch. The Engineering Conference is an annual event of CSM held in the month of November.

The vision of CUTSE Conference is to bring today's innovative research and development to tomorrow's industry. It has the mission to highlight innovative student development via academics and industrial experts in all Engineering fields, and to provide a forum to disseminate, to all branches and industries, information on the most recent and relevant innovations, theories and practices in industrial engineering, where a constructive dialog on the theoretical concepts, practical ideas and results of the state of the art will be initiated.

The main objective of CUTSE 2007 is to provide a platform for researchers, engineers, academicians and students as well as industrial professionals to present their research results and development activities in Mechanical, Electrical, Chemical and Civil Engineering. Most of the relevant topics of all branches in engineering developments are included in this conference for discussion. It is important to note these days that all Engineering Departments are inter-disciplinary; and this influences using subtopics in some departmental subjects to link to the major topics of other departmental research.

This conference discusses the results of the student projects in their final year. It provides opportunities for delegates to exchange new ideas and application experiences face to face, to establish business or research relations and to find global partners for future collaboration.

CONFERENCE CONTENTS

The Conference will cover all topics related to analysis, modelling, controlling, stability, simulation, implementation, fabrication, optimization, programming, computation, characterization, transportation, structures and costs. Topics are not limited to the following:

Mechanical Engineering

Mechanical Design
Manufacturing and Production Processes
Computational Mechanics
Fluid Mechanics and Machinery
Engineering Materials
Heat and Mass Transfer
Applied Mechanics
Thermal Engineering

Electrical Power Engineering

Static Devices
Rotating Machines
Power Electronics
Speed Drive
Multiple Inverter Fed Systems
Power Transmission and Distributions
Hybrid Power Generation
Renewable Energy

Computer Networking

Wireless Network
Traffic Network
Data Communications
Network Management

Electronics and Communications

Telecommunications
Wireless Communication
Mobile Communications
Signal Processing
Pattern Image Processing
Synchronous Signals

Computer Engineering

Embedded Systems
Autopilot Automation
Vision Sensors
Artificial Neural Networks
Fuzzy Optimisation
Evolutionary Algorithms
Sound Detection
Robotics
Artificial Intelligence

Civil & Construction Engineering

Structural Engineering
Surveying
Transportation Engineering
Water Engineering
Geotechnical Engineering
Environmental Engineering
Construction Management

Chemical Engineering

Advanced Materials and Nanotechnology
Biotechnology and Bioengineering
Chemical Engineering Fundamental
Environmental Engineering
Energy Technology
Food and Process Engineering
Oleochemical Technology
Process Safety and Loss Prevent
Process System Engineering
Reaction Engineering

BEM Approved
CPD HOURS: 16
Ref
No: IEM07/Miri/199/C

TARGET AUDIENCE:

This conference is suitable for researchers, engineers, academics and students as well as industrial professionals who actively involving in researches and activities in Mechanical, Electrical, Chemical and Civil Engineering.

PROGRAMME:

Day One: 26th November 2007, Monday

Day Two: 27th November 2007, Monday

07.30pm	Registration			
08.30am	Open Ceremony (Speeches by Chairman, PVC and IEM)			
09.00am	2 Keynote Speakers (Academic: from Hungary & Singapore)			
10.30am	Tea Break			
11.00am	2 Keynote Speakers (Industry: from SMEP & IEM)			
12.30pm	Lunch Break			
01.30pm	Chemical Eng (LT) (6 presenters)	Civil Eng (G2-101) (6 presenters)	Computer Eng (G1-209) (6 presenters)	Electronics (G3-105) (6 presenters)
03.00pm	High Tea Break			
03.30pm	Chemical Eng (LT) (6 presenters)	Civil Eng (G2-101) (6 presenters)	Computer Eng (G1-209) (6 presenters)	Electronics (G3-105) (6 presenters)
05.00pm	End of Day One			
07.30pm	Conference Dinner			

08.30pm	2 Keynote Speakers (Industry: from Daynag Enterprises and Celcom)			
10.00am	Tea Break			
10.30am	Special Session: From Industry – 6 presenters (LT)			
12.30am	Lunch Break			
01.30pm	Chemical Eng (LT) (6 presenters)	Civil Eng (G2-101) (6 presenters)	Computer Eng (G1-209) (6 presenters)	Electronics (G3-105) (6 presenters)
03.00pm	High Tea Break			
03.30pm	Chemical Eng (LT) (6 presenters)	Civil Eng (G2-101) (6 presenters)	Computer Eng (G1-209) (6 presenters)	Electronics (G3-105) (6 presenters)
05.00pm	Closing Ceremony			

For the application form, please contact IEM Miri Branch Office.

REGISTRATION:

To cover for the costs of the event, a fee of **RM250.00** (for IEM members), **RM300.00** (for Non-IEM members) and **RM400.00** (for International) will be charged to all participants. Fees must be paid **BEFORE** the commencement of the event. Bookings by fax must be forwarded with payments the day before the event is due to commence. IEM/Curtin University reserves the right to reschedule, allocate or cancel the event.

The Highland Towers Case Against Ir. Wong Yuen Kean

The Ingenieur

The Board of Engineers Malaysia (BEM) has cancelled the registration (No. 1434) of Ir. Wong Yuen Kean for his involvement in The Highland Tower's collapse.

BEM came to the decision to cancel his registration at a hearing where three charges were brought against him.

Charge 1: For the drainage design and the construction supervision of the drainage system, knowing and/or ought to have known that the whole of the drainage system had not been completed, for advising and/or assisting in the application to *Majlis Daerah Gombak* for the issuance of the Certificate of Fitness and for Occupation (CFO) and had hereby failed, refused and/or neglected to take full regard of the public interest.

Charge 2: For signing building/structural infrastructural plans for the purpose of application for the Certificate of Fitness and for Occupation (CFO) although he did not design nor supervise the earthworks, retaining walls, road and drainage works and had hereby failed, refused and/or neglected to take full regard of the public interest.

Charge 3: For having failed to give due consideration to the steep hill and slope directly behind the three apartments blocks, and/or failed to foresee the danger of a landslide producing lateral load against the foundation of the building, and/or failed to exercise due care to either design and construct a foundation to accommodate the lateral load or ensure that the slope was reasonably stable, and thereby had failed, and/or neglected to take full regard of the public interest.

At the hearing:

- (i) BEM found Ir. Wong guilty on the grounds that he:
 - a) did not dispute that he was responsible for the drainage design;
 - b) admitted that the whole drainage system was not complete;
 - c) had assisted/advised the *Majlis Daerah Gombak* in the application for CFO as the drainage system was an integral part of the project; and
 - d) had failed to exercise due care that the slope was reasonably stable.
- (ii) In mitigation, Ir. Wong pleaded that:
 - a) from the completion of the towers to the collapse, others may have constructed walls which made the slope steeper, causing its collapse;
 - b) he had no previous charges against him;
 - c) apart from the Highland Towers, he had at all material time conducted his professional duty based on his judgment and had never intended to compromise on safety;
 - d) he was not the sole person responsible for the collapse of the Towers; the court had decided that he was only 10% liable for it;
 - e) the Board considers the long stop liability as after some time others may change the surrounding of a building; and
 - f) cancellation of registration is too severe and harsh.

Conclusion

BEM concluded that:

- (a) Ir. Wong's misconduct showed that he had no regard for public safety, which resulted in the death of 48 people, thus contravening Rule 26 of the Registration of Engineers Rules 1972; and
- (b) Cancelled his registration under Section 15 of the Registration of Engineers Act 1967.

The Story of the Crest

Did You Know?

The History of the Crest

After almost four decades have passed before the IEM found out the significance of its crest. I was the IEM Convention in Kuching in September 1992 that a group of members asked on the rationale of the crest.

The crest was the design of IR. Philip Y. Chow, who is now Chairman of T.Y. Lin International. The questions gave him the opportunity to highlight on the crest and therefore assist him to recall the long faded memory of the "good old days" some 40 years ago, when a group of dream struck individuals came together to start the Institution. Yes, indeed, he even took part in the competition for the IEM logo – and won!!!

"Come to think of it, no one had asked me to explain the rationale for it now until now", was the reply from Ir. Philip Chow, when our Hon. Secretary, Ir. Dr. Ow Chee Sheng at that session enquired on the matter.

Below is the description of the crest as expressed by Ir. Philip Chow:

Basically, I had meant the logo to be a description of the engineer and his profession in Malaysia. Most of it is inscribed in the three sections on the shield. The top section represents the three major engineering branches; electrical engineering shown by the power transmission tower on the left, civil and structural engineering by the bridge in the middle, and the mechanical engineering by the cogwheels on the right.

The middle section depicts the most essential components of the profession. Knowledge as represented by a book on the left, and professional integrity by a scale on the right. The lower section depicts the elements and the environment in which an engineer works, macroelement comprising earth, water and atmosphere on the left, and microelements, i.e. the electrons, neutrons and protons on the right.

Behind the shield are the tools of the trade used in the days when IEM was born. These essentially were, a pencil and slide rule. We had no idea of course of their replacement by computer and CADD today.

The entire ensemble is then surrounded by the primary Malaysian symbols: Bunga Raya, the national flower, and the tiger. These were chosen also to symbolize the character of the country and her people, with the beauty and gentleness of a flower, and the strength and resolve of a tiger.

So here it is, the solution to the mystery of who done it and why. We hope this story of the crest will be of as much interest to the members, as the pleasure it has given to Ir. Philip Chow in savouring a little of the nostalgia of a pleasant past.



SEEKING SUPPORT FOR

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 Tel/ Fax No: :
 Address :

Signature :

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Advertisement Size:

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- Type area: 185mm x 272mm

Advertising Materials Requirements:

- PDF files (Optimised For Press) with high resolution photos (300dpi) in CMYK
- JPEG files (resolution 300dpi)

Artwork Charges:

- The positioning of the advertisements, unless specified will be at the direction of BEM.
- Cancellation will not be entertained.

Numbers of Registered Engineer with IEM Malaysia (From year 2003 to June 2007)

Grade	2003	2004	2005	2006	2007
Dist. Hon. Fellow	1	1	1	1	1
Hon. Fellow	13	14	14	14	14
Hon. Member	0	0	0	0	0
Fellow	707	700	713	715	699
Member	7,525	7,506	7,546	7,610	7,503
Graduate	5,393	5,363	5,412	5,506	5,281
Incorporated	0	1	5	7	8
Affiliate	23	24	20	20	18
Associate	0	0	4	7	9
Student	1,826	1,817	1,439	1,346	1,553
Total	15,488	15,426	15,154	15,226	15,086

Numbers of Registered Engineer with IEM Malaysia In Multi-disciplines.

DISCIPLINE	Dist. Hon. Fellow	Hon. Fellow	Hon. Member	Fellow	Member	Graduate	Incorporated Member	Affiliate	Associat	Student	Total
Aeronautical	0	1	0	0	10	13	0	0	0	19	43
Aerospace	0	0	0	0	1	2	0	0	0	5	8
Agricultural	0	0	0	4	23	41	0	0	0	4	72
Architectural	0	0	0	0	2	0	0	0	0	0	2
Automotive	0	0	0	0	0	1	0	0	0	4	5
Biochemical	0	0	0	0	0	1	0	0	0	13	14
Biology & Agricultural	0	0	0	0	0	0	0	0	0	3	3
Biomedical	0	0	0	0	0	2	0	0	0	2	4
Biotechnology	0	0	0	0	0	0	0	0	0	1	1
Building	0	0	0	0	2	1	0	0	0	0	3
Building Services	0	0	0	0	3	0	0	0	0	0	3
CAD/CAM	0	0	0	0	0	0	0	0	0	2	2
Chemical	0	0	0	16	164	264	0	0	0	255	699
Civil	0	3	0	413	4,271	2,631	5	4	4	489	7,820
Civil & Structure	0	0	0	0	0	1	0	0	0	1	2
Communication	0	0	0	0	1	5	0	0	0	0	6
Computer Systems	0	0	0	0	1	1	0	0	0	0	2
Construction	0	0	0	0	0	2	0	0	0	0	2
Control	0	0	0	0	0	0	0	0	0	0	0
Computer & Communication	0	0	0	0	1	5	0	0	0	0	6
Electrical	0	4	0	134	1,433	766	1	1	0	172	2,511
Electrical & Electronic	0	0	0	0	0	1	0	0	0	0	1
Electromechanical	0	0	0	0	4	1	0	0	0	0	5
Electronic	0	0	0	5	69	314	0	0	1	157	546
Electronic & Radio	0	0	0	0	1	5	0	1	0	0	7
Energy	0	0	0	0	2	1	0	0	0	0	3
Environment	0	0	0	0	3	13	0	0	0	7	23
Flight	0	0	0	0	0	0	0	0	0	0	0
Food & Process	0	0	0	0	0	2	0	0	0	21	23
Fuel	0	0	0	1	1	0	0	0	0	0	2
Gas	0	0	0	0	0	0	0	0	0	0	0
Geological	0	0	0	0	1	2	0	2	0	0	5
Geotechnical	0	0	0	1	2	3	0	1	0	0	7
Hyghway	0	0	0	0	0	2	0	0	0	0	2
Hydraulic	0	0	0	0	0	0	0	0	0	0	0
Industrial	0	0	0	0	2	16	0	0	0	0	18
Information Systems	0	0	0	0	0	0	0	0	0	0	0
Information Technology	0	0	0	0	0	1	0	0	0	0	1
Instrumentation & Control	0	0	0	0	11	4	0	0	0	0	15
Instrumentation & Systems	0	0	0	0	1	1	0	0	0	0	2
Manufacturing	0	0	0	0	6	17	0	0	0	54	77
Manufacturing Systems	0	0	0	0	0	2	0	0	0	0	2
Marine	0	0	0	0	13	9	0	0	0	0	22
Materials	0	0	0	1	3	16	0	1	0	6	27
Mechanical	0	0	0	111	1,356	1,065	2	6	4	298	2,842
Mechanics	0	0	0	0	0	0	0	0	0	0	0
Mechatronics	0	0	0	0	1	6	0	0	0	24	31
Metallurgy	0	0	0	0	7	2	0	0	0	0	9
Mineral Processing	0	0	0	0	1	3	0	0	0	0	4
Mineral Resources	0	0	0	0	0	5	0	0	0	2	7
Mining	0	0	0	6	33	2	0	0	0	0	41
Mining & Metallurgy	0	0	0	1	0	0	0	0	0	0	1
Municipal	0	0	0	1	1	0	0	0	0	0	2
Naval Architecture	0	0	0	0	12	4	0	0	0	0	16
Nuclear	0	0	0	1	1	1	0	0	0	0	3
Offshore	0	0	0	0	0	0	0	0	0	0	0
Petroleum	0	0	0	0	4	13	0	0	0	0	17
Polymer	0	0	0	0	0	1	0	0	0	0	1
Production	0	0	0	0	10	9	0	0	0	1	20
Public Health	0	0	0	0	0	0	0	0	0	0	0
Structural	0	0	0	3	39	12	0	0	0	0	54
Telecommunication	0	0	0	0	0	2	0	0	0	2	4
Textile	0	0	0	0	1	0	0	0	0	0	1
Thermal	0	0	0	0	1	0	0	0	0	0	1
Transport	0	0	0	0	0	0	0	0	0	0	0
Water Resources	0	0	0	0	2	2	0	0	0	0	4
Others	1	6	0	0	1	3	0	2	0	4	17
Total	1	14	0	699	7,503	5,281	8	18	9	1,553	15,086



IEM Miri Branch



MIRI INTERNATIONAL TREASURE HUNT 2007

Sunday, 21st October 2007- "The Hidden Jewels Of Sarawak"

ENTRY FEE: RM300.00 PER CAR (4 persons per car - inclusive of 2 T-shirts & lunch)

REGISTRATION ENTRY FORMS AND FEES IN CASH OR CHEQUE PAYABLE TO "IEM Miri Branch" MUST BE RETURNED BY HAND OR EMAIL TO

INSTITUTE OF ENGINEERS MALAYSIA, MIRI BRANCH OFFICE

For the application form, please contact IEM Miri Branch Office.

DEADLINE 19th October 2007 (4 persons per car with at least 1 person being a tourist/visitor of other nationality, if possible)

Name of Driver	:												
NRIC/Passport No.	:												
Address	:												
Driver's License No.	:												
Tel. No.	:												
		T-SHIRT SIZE			XXL	XL			L				
Name of Driver	:												
NRIC/Passport No.	:												
Driver's License No.	:												
Tel. No.	:												
		T-SHIRT SIZE			XXL	XL			L				

Vehicle Reg. No. : Make/Model:

Sponsorship : Private Corporate (Individuals, tick "private", company sponsored "corporate")

Name of Additional	:													Age:	<input type="text"/>	<input type="text"/>			
Passengers (Max 2)	:													T-SHIRT SIZE	XXL	XL	<input type="checkbox"/>	L	<input type="checkbox"/>
	:													T-SHIRT SIZE	XXL	XL	<input type="checkbox"/>	L	<input type="checkbox"/>

NOTE

In consideration of the Miri Branch of Institute of Engineers Malaysia (IEM) allowing us at our request, to participate in MIRI INTERNATIONAL TREASURE HUNT 2007, we hereby jointly and mutually agree to indemnify and keep indemnity of MIRI INTERNATIONAL TREASURE HUNT 2007, the Miri Branch of IEM, the Organising Committee of MIRI INTERNATIONAL TREASURE HUNT 2007, and the servants and agents of the aforesaid, against all and any actions, claims, damages, fines, penalties, costs and expenses which they suffer or incur as a result of our participation in MIRI INTERNATIONAL TREASURE HUNT 2007. We declare that we are participating in the MIRI INTERNATIONAL TREASURE HUNT 2007 at our sole risk and we according further jointly and severally agree to save harmless all the aforesaid persons in respect of any loss, damage, injury, or fatality which we may suffer or incur as a result of our said participation.

RULES, REGULATIONS AND GENERAL INFORMATION

- Ability**
- Drivers must be duly licensed to drive.
 - Participating cars must be roadworthy and meet statutory requirements, and also be duly insured against third party risks.
 - It is recommended that cars be fitted with trip meters which give readings in kilometers
- Entry Fees and Corporate Sponsorship**
- Each participating car must have 4 persons (driver and navigator) with 1 person shall be a tourist/visitor of other nationality if possible.
 - The entry fees are RM300.00 for each participating car.
 - Corporations are encouraged to sponsor teams or cars. Sponsorship of RM10,000.00 or more, inclusive of entry fees, entitles the corporations to affix their logos on the cars.
 - All entry forms and entry fees must be submitted to the IEM, Miri Branch office no later than 19th October 2007.
 - The entry fees totaling RM300.00 is inclusive of 2 T-shirts, goodies bag and lunch for the prize-presentation. All passengers are encouraged to be present at the prize-presentation and any other photograph session for promotion of the treasure hunt in either print or electronic media.
- Route and Distance**
- The hunt will encompass areas in Miri to Batu Niah and back to Miri. Directions will be issued on the day of the Hunt in the form of tulips.
- Question and Treasures**
- The answer to questions will be found in sequence, i.e. the answer to Question 1 should be seen before the answer to Question 2. The answer to a particular question will also be located within the sector in which that question is asked.
 - Treasures have to be collected in the course of the Hunt and submitted to the Hunt officials at the finish point.
- Scoring and Judging**
- Scoring will be based on four criteria: answers, treasures, scrutiny, marshals' stamping and endorsement. In circumstances of point tie, the winner will be decided on timing.
- Assembly Point, Scrutiny and Flag-Off**
- The Hunt will flag-off at the **KRP (identified parking spot signage)** at 7:00 am on **Sunday, 21st October 2007**. The flag-off will be in batches and sequence of which cars arrive first at the Assembly Point.
 - The Assembly Point is at the **KRP**. The participating cars are required to queue along the front of Car Park and, if necessary, continue to the rear as well. Officials will be on hand to direct cars and conduct scrutiny of cars.
 - Assembly Point will open at 6:00 am. There will be an Early Bird Prize for the first car to arrive (look for the Early Bird parking spot signage)
- Duration and Finish**
- The Finish will be at the **KRP**, which is close to the flag-off point. Competitors are required to drive up their cars to the Finish Line and hand in their answers and treasures to the Hunt Officials, who will note the finishing times. Competitors are then to immediately park their cars in the **KRP**.
 - Each car is given a maximum of 6 hours to return to the finish line. Any car exceeding the time limit will be automatically disqualified. Therefore, if the flag off time is at 7:00 am, all cars are expected to be back at the **KRP** by 1:00 pm; after which the judges will begin their marking.
- Briefing**
- There will be a briefing for participants at **10:00 am to 12:00 noon on Saturday, 20th October 2007** at **KRP**. At least one person from each participating team must be presented to register their car and to collect the car sticker (Car No.), lunch coupons and T-shirts.
 - Participants can purchase additional Lunch coupons immediately after the briefing for their family members or friends who might want to join the Prize-Presentation Lunch. Lunch coupons are priced at RM25.00 each. Otherwise, entry to the venue for payment of Lunch and prize presentation will be strictly upon presentation of Lunch coupons only.
- T-shirt and Car Stickers**
- The official T-shirts for the driver and navigator must be worn throughout the Hunt for identification purpose.
 - Official car stickers have to be affixed on both side of the car visible to the Hunt Official throughout the hunt.
 - Participating teams are allowed to affix corporate logo on their cars only on condition the company has contributed RM10,000.00 to the Event.
- Prize-Presentation-Lunch**
- The prize-giving ceremony will be conducted during the Prize-Presentation Lunch scheduled at **2:30 pm** at **KRP**.
 - Entry to the venue will be upon presentation of Lunch coupons. All participants are issued with Lunch coupons at the briefing on **20th October 2007**.
 - Lunch will be served from 12.30pm to 2.00pm.