

ISSUE No.17 FOR MEMBERS ONLY

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IMTCE2008 - ANOTHER SUCCESSFUL EVENT

The IMTCE2008 started with a whimper but ended with a bang. The much anticipated Golf Tournament at the Kelab Golf Perkhidmatan Awam, Bukit Kiara, Kuala Lumpur was washed out due to heavy rain on 24th August 2008. 40 eager golfers were disappointed as rain was not something they had expected after a long period of dry weather prior to the tournament. However, they enjoyed a good meal and all had a gift to take home.

There was enthusiastic participation about the technical visits to SIRIM at Shah Alam and the Yung Kong Galvanising Plant in Klang. Several had to be turned away due to late registration and limited seats.

At the same evening of 25th August, participants were treated to a grand Banquet Dinner held in commemoration with the 20th Anniversary of the Institute of Materials, Malaysia (IMM). We had the honour of the presence of the Deputy Minister of the Ministry of Science, Technology and Innovation (MOSTI), YB Haji Fadillah Yusof, who kindly officiated the opening. He congratulated IMM for 20 years of service to the



The Deputy Minister of the Ministry of Science, Technology and Innovation, YB Haji Fadillah Yusof, graced the IMTCE2008. Inset: Cutting the 20th anniversary cake.

Materials fraternity as he shared with those present that research grants are available from the ministry. He said "We at the Ministry of Science, Technology and Innovation wish to inform you that opportunities are there for you to apply for research grants into developing new materials particularly in the area of creating waste to wealth. An example of this is Biomass. This, we strongly believe will also create wealth and societal well being at the same time making a more friendly environment for all of us to live in".

The diners were thrilled with a dinner pres-

entation by the resident 'tea-server' from the Sichuan province of China. The artistic, acrobatic and clinical way he served tea from a teapot with a long three foot spout to the guests-of-honour was appreciated by all.

Pn Hjh Maimunah Ismail provided the founding and senior members of IMM some fond memories by reminiscing with a poem dedicated to IMM. She recollected the history of IMM over two decades in true Malay poetic style (see the full text of the poem in Page 3)

Nostalgia is one that

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MATERIALS TECHNOLOGY CAREER TALK IN UTM



The keenness is reflected in the faces of concentration of these students

Upon the invitation from the Kelab Bahan, Universiti Teknologi Malaysia located in Skudai, Johor, a team comprising of Ir Max Ong Chong Hup, Ir Suradi Yasin, Mr Frankie Chua and Mr Kang Kim Ang presented various papers on the career opportunities on Materials Technology in the Oil and Gas Industry.

About 40 club members were present. There were active participation and discussions as well as questions ably answered by the panel.

From the discussions, a plan was hatched to have the first Student Chapter of IMM in this university in the south of Malaysia.



The IMM team taking questions from the members of Kelab Bahan, UTM, Skudai

COSTAM VICE PRESIDENT

*"We are honoured
COSTAM appointed
Dato' Dr Ong Eng
Long as a Vice
President"*



Dato Dr. Ong Eng Long

We congratulate our president, Dato' Dr Ong Eng Long, on his appointment as one of the Vice Presidents to the Confederation of Scientific and Technological Associations in Malaysia (COSTAM).

Dato' Dr Ong, was made a Fellow of the Malaysian Academy of Sciences for his contribution to the Science and Technology Develop-

ment in the country. A consultant in rubber research, he is also a Fellow of the Institute of Chemistry and a Fellow of the Plastic and Rubber Institute of Malaysia.

The appointment to COSTAM will be another milestone added to the long list of his achievements.

WELDING FORUM IN CONJUNCTION WITH IMM AGM

A forum on welding will be held on Saturday, 14th March 2009, in conjunction with the 19th Annual General Meeting of the Institute of Materials, Malaysia.

Keep a look out for more details regarding these events in upcoming issues of Material News.



TWO DECADES WITH INSTITUTE OF MATERIALS, MALAYSIA

By Pn Hj Maimunah Ismail

A group of Engineering Materials advocates
Sought to form a learned group to dedicate
Quest for excellence to Science & Technology
An act of collaboration between Theory and the Industry

Initially registered as Malaysian Materials Society
Was met with much skepticism and anxiety
Though no link to secret society and its notoriety
Image change was much heeded as a necessity

It was finally in November of 1987
The 'Jabatan Perdana Menteri' endorsed its inception
A non profit making body as it stands
Overcame challenges as it expands

The first Council led by the President Dato' Dr Mansor
Deputised by Dr Teh Ser Kok, always on the go
Ir Ong Chong Hup the everlasting Hon. Secretary
Ir Helmi Hashim at the helms of Treasury

In the year 1998 enlisted a mere fifty four
A decade later 2000 members or more
Various levels of workers cooperate
Each eager to impart and share knowledge

To encourage Materials Education
To promote Research & Development
These are the missions of the Institute
Various activities planned and in pursuit

As IMM celebrates the "China/Platinum" anniversary
Corrosion resistant materials symbolise the centenary
Enshrining IMM members with Professional Integrity
Will propel the Institute to greater glory and opportunity

The above poem was recited by Pn Hj Maimunah
Ismail at the Banquet Dinner in celebration of the
20th anniversary of IMM in August 2008



Pn Hj Maimunah reciting the
poem during the dinner

*"Enshrining IMM
members with
Professional Integrity,
will propel the Institute
to greater glory and
opportunity"*

50 YEARS IN MALAYSIA

The Institute of Minerals, Materials and Mining (IOM³) Malaysian Branch will be celebrating its 50th anniversary in Malaysia in 2010.

In conjunction with the auspicious occasion, a conference will also be held.

You can enjoy a game of golf, great food at the 50th Anniversary Banquet Dinner, gain better and latest knowledge at one of the Technical visits and Conference. What more with about 200 technical papers on the theme: "The Role of Materials,

Minerals and Mining Technologies for Sustainable Development" and 2 plenary sessions with 4 presentations planned.

You can expect 2 Nobel Laureates sponsors. The British High Commission and the Academy of Sciences Malaysia, IOM³ UK, University of Nottingham Malaysia and the Institute of Materials Malaysia will support this grand event.

Selected papers will be published in a journal of the IOM³. A souvenir programme highlighting the



IOM³ celebrates 50th anniversary in 2010

50 years of IOM³ in Malaysia and the role it played in the history of the country will also be compiled for your coffee table with the glory of days past to be shared with friends who visit you.

IMTCE 2008

Continued from page 1

seems to permeate throughout the night, especially for the senior members of IMM and older diners. The evening

was swinging along nicely, what with a band named *Forever* that croons with songs like 'What a wonderful world', 'Falling in Love' and

others by Elvis Presley, The Beatles, The Bee Gees, Engelberg Humperdinck, Tom Jones, Herman's Hermits and many more. The crowd also wished Nettie, the wife of Roy Vogelpoel, a Happy Birthday.

The past presidents of IMM were also remembered for their dedicated service to the institute. Prof Dato' Dr Hj Mohd Mansor Hj Salleh, Dr Samad Solbai, Dr A Rahim

Md Nor and En Zainuddin Ishak were awarded Honorary Fellows, with a special mention for Mr Roy Vogelpoel who has been associated with and served IMM



YB Fadillah Yuosf (centre), with Dato' Dr Ong Eng Long (2nd from left) with recipients of Honorary Fellow awards - (L-R) Prof. Dato' Dr Hj Mohd Mansor Hj Salleh, Dr Abdul Rahim Mohd Nor and Mr Roy Vogelpoel

since its inception.

The plenary sessions on the following day were well attended, with participants from several countries. We recorded participation from Singapore, Japan, England, India, Bangladesh, Saudi Arabia, Austria, Iraq and Iran. Dr Abdul Nasir Adam spoke on revolutionising solid waste Management whilst Dr Chen Sau Soon elaborated about management of materials.

Seven symposium sessions were presented each day. The scientific programme was based on the theme "New Technologies in Materials and Minerals Industry Towards A Sustainable Future". Technical papers on Materials Research and Development, Materials Application, Welding and Joining Techniques, Corrosion Control, Coatings Technology, Inspection and Testing, Composites and Nano Materials

were presented by more than 80 speakers.

Twelve exhibitors displayed their wares in the booths conveniently located within the hotel on the same floor. Exhibits include coatings materials to high tech machinery, from sophisticated instruments to education in skills training.

We look forward to IMTCE2010 as the China/Platinum year of IMM comes to a close.

"We recorded participation from Singapore, Japan, England, India, Bangladesh, Saudi Arabia, Austria, Iraq & Iran"

THE WORLD'S LARGEST SEISMIC RUBBER BEARING PROJECT

By Dr Kamarudin Ab Malek FIMM
Engineering and Product Design Unit
Malaysian Rubber Board

For many years the Malaysian Rubber Board (MRB) has been actively promoting seismic rubber bearing technology in seismic-prone countries round the world. This technology, developed by MRB in the 70's, would be able to provide the maximum protection not only to the buildings but also to the people and contents in the buildings. The effectiveness of these rubber bearings was clearly demonstrated during the 1994 Northridge and 1995 Kobe devastating earthquakes during which buildings and bridges installed with rubber



A complete installation of seismic rubber bearings for one of the buildings

bearings performed very well as compared to conventionally-built structures. In fact the application of this technology skyrocketed in Japan immediately after the Kobe temblor especially for almost all bridges constructed after Kobe earthquake. The Japanese are also retrofitting their existing bridges with seismic rubber bearings. Today more than 8,000 structures all over the world in the US, Japan, China, Italy, Taiwan and New Zealand have been installed with seismic rubber bearings.

Despite a proven record, the seismic rubber bearing technology is yet to be adopted by other seismic-prone countries and Iran is an example of a country constantly under threats from devastating earthquakes. The recent Iranian earthquake in December 2003 which destroyed the historical city of Bam illustrates the destructive power of the earthquake. Last year the Ira-

nian government agreed to use the rubber bearing technology for the first time in Iran.

The Iranian housing project awarded to a Malaysian developer, Amona International Venture, is for the construction of residential apartment buildings in Parand (30km south west of Tehran) which is going to be the world's largest application of seismic rubber bearings in a single project. It is expected that more than 8,000 rubber bearings will be used for more than 150 blocks of building apartment of 8 and 12-storey high.

Earlier in 2004, MRB and the Iranian International Institute of Earthquake Engineering & Seismology (IIEES) jointly organized a Seminar on seismic rubber bearing with a view to promote the technology in Iran. The Seminar was a success because the Iranians were very keen to adopt the technology and MRB got the breakthrough with the commencement of the Parand project where the Iranian first seismic rubber bearing was installed on the 9th November 2007. The first 256 rubber bearings, manufactured locally by a Malaysian manufacturer, have been installed for the first four blocks of 12-storey building. MRB is involved in the design, testing and manufacturing of the bearings for this Parand project.

The use of rubber in civil engineering applications is not new. MRB through its research laboratories started to investigate the use of rubber for bridges in the 1950's and culminated in the installation of rubber bearings at Pelham Bridge in England in 1956. This is the first bridge in the world that used rubber bearings to replace the metal bearings which were more expensive and require heavy maintenance and were susceptible to corrosion and wear. Rubber bridge bearings are meant to reduce stresses for the bridge piers when the decks undergo thermal expansion and contraction. Today the rubber bearings have been accepted worldwide as an important engineering component of bridges. The Penang bridge built in 1985 sits on about 10,000 rubber bearings.

In the 1960's, MRB carried out investigation to isolate buildings from unwanted vibrations

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"More than 8,000 structures all over the world, in the US, Japan, China, Italy, Taiwan and New Zealand, have been installed with seismic rubber bearings"

OF ABS AND CPVC PIPES

Members from IMM and IOM³, Malaysian Branch visited the manufacturing plant of Euratech (Malaysia) Sdn Bhd, located in Nilai on 11 September 2008. Euratech is wholly owned by the Tyco Flow Control Group of Companies.

The General Manager, Mr Amos Yeo, briefed the entourage on the uses of the



Amos Yeo (centre) stressing a point to the visitors

ABS Pressure Pipe System and the CPVC plastic pipes which may have equal or better applications than carbon steel pipes.

Mr Yeo subsequently guided the group to tour the manufacturing plant where he shared intricacies of the manufacture of ABS and the CPVC pipes and components parts.

We thank Dr John Eow who assisted in planning and arranging this technical visit.

“Using rubber bearings, buildings in big cities and located above busy underground train stations are protected from unwanted vibrations”

SEISMIC RUBBER BEARING

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such as caused by moving trains. In 1966, Albany Court building in London became the world first building to be installed with rubber bearings for isolating the building from underground moving trains. Using rubber bearings, buildings in big cities and located above busy underground train stations are protected from unwanted vibrations.

Based on these pioneering works, MRB in the 1970s jointly carried out research with the University of California at Berkeley to determine if rubber bearings could also protect structures from earthquakes. This work culminated in 1985 with the construction of the first building in the world that was installed with 98 high damping natural rubber bearings in San Bernadino California, USA. This US\$38 million building, called the “Foothill Communities Law and Justice Centre”, is a 4-storey structure, built to withstand earthquakes with the magnitude of up to 8.3 Richter scale. The construction of this building paved the way for the worldwide applications of seismic rubber bearings and Iran has now joined this membership of nations which adopted the seismic rubber bearing tech-



Construction of the first floor after the bearing installation

nology which would provide the maximum protection to their population, buildings and bridges in the event she is struck by a major earthquake.

Used with permission from
Dr Kamarudin Ab Malek
FIMM

NEWS UPDATE ON IOM³ MALAYSIA BRANCH



Mr Yip Foo Weng, Chairman of IOM³, Malaysian Branch (2008/2009)

The Institute of Materials, Minerals & Mining U.K. is the international professional body licensed by the Engineering Council and Science Council of United Kingdom to assess and qualify professionals in the field of Materials, Minerals & Mining for the award of Chartered

Engineer (C.Eng.) and Chartered Scientist (C.Sci.).

This "combined" institute was due to a merger of the Institute of Materials U.K. and the Institute of Mining & Metallurgy U.K. in 2003. Prior to 2003, the Institute of Metals, Institute of Ceramics and the Plastics & Rubber Institute in the U.K. merged to form the Institute of Materials in 1992.

The Institute of Materials, Minerals & Mining IOM³ – Malaysian Branch evolved from the previous Institute of Mining & Metallurgy, Malaysia.

The EXCO members of IOM³ Malaysian Branch for 2008/2009 session comprised of:-

- Mr. Yip Foo Weng – Chairman
- Engr. Max Ong Chong Hup – Hon. Secretary
- En. Mohd. Redzuan B. Mohd. Ramli – Immediate Past Chairman
- Datuk Fateh Chand – Comm. Member

- Dr. Ng Wing Kong – Comm. Member
- Dr. Leong Kok Hoong – Comm. Member
- Mr. Choo Mun Keong – Comm. Member
- Mr. Chan Wan Choon – Comm. Member
- Mr. Lim Weng Tong – Comm. Member

IOM³ Malaysian Branch planned various technical visits to manufacturing plants and mines from September 2008, amongst which are:-

1. Visit to Tyco Euratech CPVC Plastic Pipe manufacturing plant in Nilai, Seremban. (see accompanying article on page 4)
2. Visit to Mengapur Copper Mine in Maran, Pahang.

IOM³ Malaysian Branch will also be organizing an International Materials, Minerals & Mining Conference in 2010.

Various technical talks and seminars will also be organized in 2009 throughout Malaysia.

The Secretariat of IOM³ Malaysian Branch will be located in Puchong, Selangor. The IOM³ Secretariat address;

10-1 Jalan Bandar 3,
Pusat Bandar Puchong
47100 Puchong, Selangor
Tel: (603) 5882 3574
Email: iomm@po.jaring.my



The official logo of IOM³

*"The Institute of
Materials, Minerals &
Mining IOM³ –
Malaysian Branch evolved
from the previous Institute
of Mining &
Metallurgy, Malaysia"*



ASIA WELDING SHOW 2009

The first full fledged welding trade fair, Asia Welding Show (AWSS2009) will be held in Singapore from 14 - 16 July 2009.

The three day show, organized by the Singapore Welding Society (SWS) together with Sanpo Publications, Inc of Japan, will be held at the Singapore Expo Hall 3. It will exhibit the latest and most advanced

welding machinery and equipment from the world's leading manufacturers and suppliers showcasing new innovations and cutting-edge technology:

The show is supported

by several organizations including the Institute of Materials Malaysia and IOM³.



Exhibits at the previous Welding Show organized by Sanpo Publications, Inc in Japan

For more details, please contact Sanpo Publications, Inc. URL: <http://www.sanpopub.co.jp/>

CORROSION CONTROL SEMINAR IN KERTEH



Main picture: A section of the crowded room. Inset: Participation from a wide range of qualification, experience and gender.

Minerals and Mining (Malaysian Branch) organized a seminar on Corrosion Control on 3 November 2008.

The seminar, held at the Perhentian Room, PETCEN Building, Ethylene Malaysia Sdn Bhd covered the various aspects of corrosion control and coatings, was a overwhelming success. Close to 100 participants attended the one-day

session which concluded with a plant visit to Ethylene Malaysia Sdn Bhd - Petro-

The Institute of Materials, Malaysia (East Coast Committee), together with the Institution of Engineers Malaysia (Terengganu Branch-Kerteh Chapter) and the Institute of Materials,



BOOST YOUR CAREER IN SCIENCE AND ENGINEERING

A one day workshop focusing on career development and improving communication in the field of Science and Engineering.

Good communication in the field of science and engineering is an essential skill that will boost your career, publicise your work, improve your chances of receiving funds, hone your networking skills, and ultimately improve the sales of your 'product' (even if the product is yourself!). This one day workshop will give you practical advice on how to communicate verbally with colleagues, the public and the media, how to improve your written publications and funding applications, how to further your career by mapping your career development, and how to obtain a professional qualification. The conference is aimed at anyone working in the field of science and engineering wishing to improve their communication skills.

This event, organised by the Institute of Materials, Minerals and Mining, is available at a reduced rate to all delegates who are members of IOM³ or one of the other co-sponsoring organisations listed below. Attendance at the event can



be credited to a member's Continuing Professional Development.

21 Jan 2009, IOM³, London, UK

Registration

Online registration for this event available at:

<https://www.eventsforce.net/iom/frontend/reg/home.csp?pageID=15342&CSPCHDx=0000000000&eventID=53&mode=preview&version=future&eventID=53>

"Good communication ... will boost your career, publicise your work, improve your chances of receiving funds, hone your networking skills ..."

AWF REVIEWS ISO9606 & MOS

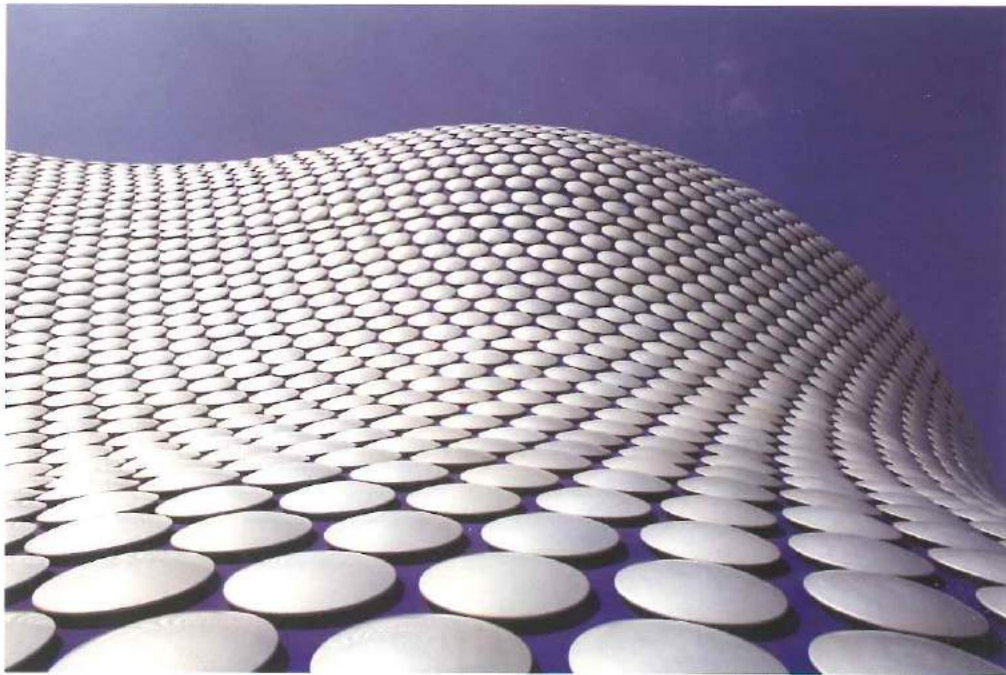
The 11th Governing Council Meeting of the Asian Welding Federation (AWF) was held on 17 November 2008 in Kyoto, Japan. Ir. Mohd Suradi Yasin and Ir. Max Ong represented the Institute of Materials Malaysia (IMM) at the meeting. The AWF comprises the welding societies of Japan, Singapore, India, Thailand, China, Korea, Indonesia, Philippines, Malaysia, Vietnam and Mongolia. The latest development amongst the welding fraternity in all member countries was presented during the meeting.

The AWF is reviewing the ISO-9606 welding standard to suit the needs of the Asian welding industry. AWF is also in the process of implementing the Manpower Optimization Scheme (MOS) to reduce costs of qualification and certification of welders in Asia.



L-R: Ir Max Ong and Ir Suradi in Kyoto for the AWF 11th Governing Council Meeting

The next AWF task force meeting on ISO 9606 meeting will be hosted by IMM in April 2009 in Kuala Lumpur.



“... the Manpower Optimization Scheme (MOS) ... reduce costs of qualification and certification of welders in Asia”



MANPOWER OPTIMISATION SCHEME (MOS) - to Avoid Disaster

MAJOR DISASTERS can be avoided if the competency and experience of critical tradesmen are continually monitored. With the Manpower Optimisation Scheme (MOS), only qualified and competent skilled workers are certified to work.

MOS was introduced to oversee the work performance and continuous work experience of all registered skilled workers such as Coating Inspectors, Welding Inspectors, Coating Supervisors, Welders, Corrosion Technicians, Corrosion Technologists, Blasters and Painters.

In MOS, the skilled worker is assigned to a job whose work is supervised by registered Inspector or Supervisor in the project. Their work performance is managed and maintained online by the system. In this manner the skilled worker's work and performance are constantly tracked and monitored.

The registered skilled worker will no longer need to fill in the logbook or Job Development Record Book which has been a basis for re-certification by the Institute of Materials, Malaysia (IMM). The database in MOS which continually observe and maintain job performance of these tradesmen will be used for this purpose. Re-certification is automatic so long as the worker's work records are maintained in MOS subject to the terms & conditions. As this information is accessible online, project owners, clients, fabricators or contractors will also use MOS for hiring purposes. It therefore offers better exposure to great opportunities for work and career advancement for those who are registered in the scheme.

For more details, please contact Ms Siti Norlina of Primos (M) Sdn Bhd at (03) 5882 3574 or email: lina@primos.com.my

“MOS was introduced to oversee the work performance and continuous work experience of all registered skilled workers such as Coating Inspectors, Welding Inspectors, Coating Supervisors, Welders, Corrosion Technicians, Corrosion Technologists, Blasters and Painters ”



THE ROLE OF MATERIALS, MINERALS, AND MINING TECHNOLOGIES
FOR SUSTAINABLE DEVELOPMENT

MATERIALS, MINERALS & MINING CONFERENCE & EXHIBITION 2010

M3CE 2010

In conjunction with the 50th Anniversary Celebration of IOM³ in Malaysia

EVENTS PLANNED:

- 200 TECHNICAL PAPERS. AUTHORS ARE INVITED TO SUBMIT THEIR PAPERS IN LINE WITH THE THEME
- SELECTED PAPERS TO BE PUBLISHED IN LOCAL IOM³ JOURNAL
- 2 NOBEL LAUREATES (SPONSORED BY THE BRITISH HIGH COMMISSION & THE ACADEMY OF SCIENCES MALAYSIA)
- GOLDEN ANNIVERSARY BANQUET DINNER
- 50TH ANNIVERSARY SOUVENIR BOOKLET
- TECHNICAL VISITS
- GOLF TOURNAMENT



Supported by:

Institute of Materials, Minerals & Mining (UK)
Institute of Materials, Malaysia
The British High Commission
The University of Nottingham, Malaysia

Organised by IOM³ (Malaysian Branch)

Event organizer: Materials Technology Education Sdn Bhd

Materials, Minerals & Mining Conference 2009 (M3C 2009)

The Role of Materials, Minerals, and Mining Technologies
for Sustainable Development

Date: Tuesday, 7 April 2009

Time: 9.00am - 5.30 pm

Venue: University of Nottingham
Malaysia Campus (UNMC),
Chulan Square, Jalan Conlay,
Kuala Lumpur

Papers: Minerals and Mining
Materials R & D
Corrosion and Inspection
Welding and NDT

Sign up now!

Call (603) 5882 3574

The Institute of Materials, Mineral and Mining, (IOM3) Malaysia branch, will organize Materials, Minerals & Mining Conference 2009 (M3C 2009). The theme will be The Role of Materials, Minerals, and Mining Technologies for Sustainable Development.

The M3C 2009 will be held at the University of Nottingham, Malaysia Campus at the Chulan Square, Jalan Chulan in Kuala Lumpur on Tuesday 7th April, 2009. Several papers pertaining to Minerals & Mining, Materials R & D, Corrosion and Inspection as well as Welding and Non Destructive Testing (NDT).

Members are encouraged to sign up early as there are limited seats available at RM120.00 per person.

Please contact:

Azman Murad

at (03) 5882 3574

or email: iomm@po.jaring.my

Institute of Materials,
Malaysia

10-1 Jalan Bandar 3
Pusat Bandar Puchong
47100 Puchong

Phone: (603) 5882 3574
Fax: (603) 5882 3254
E-mail: iomm@po.jaring.my

We're on the web
www.iomm.org.my

Towards a Knowledgeable Skilled
Workman



The Malaysian Materials Science & Technology Society (MMS) was registered with the Registrar of Societies on 6th November, 1987. The MMS was actively promoting the awareness of Materials in Malaysia since 1988. In 1996, with a newly-elected Council, the change of name to the Institute of Materials, Malaysia (IMM) was approved on 16th June 1997.

IMM promotes honourable practice, professional ethics and encourages education in materials science, technology and engineering. Engineers, academicians, technicians, skilled workers and professionals are amongst its members exceeding 2200.

For membership details, contact the Secretariat at:

Tel: (603) 5882 3574 Fax: (603) 5882 3524 Email: iomm@po.jaring.my

- Kirk Keng Chuan (General Manager)
- Siti Norlina (Asst Manager)
- Azman Murad (Executive)

IMM CERTIFIED COURSES



In the quest for knowledgeable skilled workers, IMM has joined forces with Materials Technology Education Sdn Bhd (MTE) to provide various skills courses that will enhance the livelihood of the experienced worker who needs to improve by being a not only being a skilled worker but a knowledgeable one.

Several courses are available that provide a charted progression and development of the worker from skills based to knowledge based work. These are:

1. Diploma in Welding Technology
2. Diploma of Applied Science (Coatings Technology)
3. Protection Coatings Technician (Blaster & Painter)
4. Blasting & Painting Supervisor
5. Coatings Quality Control Technician (QC)
6. Coatings Inspection (CI)
7. Corrosion Control By Protective Paints
8. Corrosion Control By Cathodic Protection
9. Thermal Spray Coatings
10. Marine Painting Inspection
11. Malaysia Welding Inspection Scheme
12. Calculation of Strength of Welded Members
13. Cost & Estimation of
14. Interpretation of Weld Quality by Radiographic Method
15. Interpretation of Weld Quality by Welding Codes
16. API-570 Piping Inspector
17. API-510 Pressure Vessel Inspector
18. API-653 Above Ground

For more information please contact:

- Syaiful Hilal
- Kirk Keng Chuan

Tel: (603) 5882 3574
Email: info@lifeskills.com.my

