

IMM NEWSLETTER

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Special points of interest:

- IMM 22nd AGM & Seminar
- Technical Visit
- Corrosion Seminar in East Coast
- 8th International Materials Technology Conference & Exhibition

HARMONISING WELDING STANDARDS

Kuala Lumpur - 5 August 2011

The welding fraternity in the oil and gas industry is set to benefit tremendously with the introduction of a certification scheme recognised by 13 Asian nations in Malaysia.

In a dialogue hosted by PETRONAS, the objective of the Asian Welding Federation (AWF) and the Common Welder Certification Scheme (CWCS) were put forth. The federation aims for common guidelines for the education, training, qualification & certification of personnel in welding & its related technology which shall provide a platform for a common welding standard. This order of flow will assist the business manufacturing process to be more efficient & cost effective.

"The CWCS will bring value creation within the industry and offers an improvement in quality of welders through a standardized system of qualification and certification which will be recognized throughout Asia" said Dr Colin Wong Hee Huing, Vice President of T&E, PETRONAS, adding "cost benefits will be passed on to the operators, contractors and welders while the AWF-certified welders will eventually get recognition to seek employment anywhere within Asia without re-testing and re-qualification."

The CWCS will utilise the Manpower Optimisation System, a database accessible via the Internet of all trained and



Take it from me: Dr Colin Wong addressing members of welding community

certified welders, welding inspectors and welding engineers. MOS oversees the continuous work experience of certified welders, who can be recertified regularly as long as their performance records are up to date and in order. The system is easily accessible to project owners, clients, fabricators and contractors. The CWCS adheres to international welding standards specified under ISO 9606-1.

IMM is an active proponent of a harmonised welding standard in Malaysia. The AWF was initiated since April,

IMM COUNCIL MEMBERS 2010 - 2012

Advisor: DATUK IR YEOW KIAN CHAI - PETRONAS
President: DATO' DR ONG ENG LONG - Kossan Rubber Industries Bhd
Dep. President: PROF DR MOHAMAD KAMAL HARUN - Universiti Teknologi MARA
Hon. Secretary: IR MAX ONG CHONG HUP - Norimax Sdn Bhd
Hon. Treasurer: IR MOHD SURADI YASIN - MTE/OSFAM

Immediate Past President:

ZAINUDDIN ISHAK - Ingress Fabricators Sdn Bhd

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 DATUK IR WAHIRUDDIN WAHID - PRA Services Sdn Bhd
 DATUK FATEH CHAND - Academy of Sciences Malaysia
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 PROF DR ESAH HAMZAH - Universiti Teknologi Malaysia
 ASSOC PROF DR ANDREW SPOWAGE - U of Nottingham M'sia C
 DR ABDUL AZIZ MOHAMED - Agensi Nuklear Malaysia
 DR AZMI IDRIS - SIRIM Bhd
 DR TEH SER KOK - Metallurgical Consultant
 ABDUL RAZAK HURAIRAH - Morecap Sdn Bhd
 CHRISTOPHER KETTLE - Sarawak Shell Bhd
 DAVID LIM CHEE CHEONG - ExxonMobil E & P (M) Inc
 ENG KIM LENG - EKL Ventures Sdn Bhd
 FRANKIE CHUA CHENG HUAT - PLC Laboratory Sdn Bhd
 HARRY WOON - Bredero Shaw (M) Sdn Bhd
 JOHAR JUHARI - Kencana Petroleum Bhd
 KANG KIM ANG - Corrtrol Corrosion Sdn Bhd
 MAIMUNAH ISMAIL - Shell Global Solutions (M) Sdn Bhd
 MOHD TAJUDIN ALIAS - MTE Sdn Bhd
 NIGEL PATRICK BREWITT - MTIS Sdn Bhd
 NOOR HISHAM ABDUL HAMID - UTM - PJSB
 SITI HASLINA - PETRONAS Research Sdn Bhd
 TUNGKU NOR MANIRA - Norimax Sdn Bhd
 YII MING SING - Malaysia LNG Sdn Bhd
 ZAMALUDDIN ALI - PETRONAS

Chairmen of Regional Chapters/Committees:

Welding: DR EDWIN JONG - Shell Deepwater Group
Kuching: NUZUL ADZWAN BIN SULAIMAN - Brooke Dockyard
Labuan: JOHN WONG PAK KUNG - Fumiko Sdn Bhd
Northern: PROF DR HANAFI ISMAIL - Universiti Sains Malaysia

Past Presidents:

1988-1996 PROF DATO' DR HJ MOHD MANSOR HJ SALLEH - Universiti KL
 1996-2000 DR IR SAMAD BIN SOLBAI - PT Gunanusa Utama Fabricators
 2000-2004 DR AB. RAHIM BIN MOHD NOR - Teras Duta Sdn Bhd



*"To become the
 authority on materials
 science technology &
 engineering in Malaysia
 by 2020"*

THE PRESIDENT'S MESSAGE



Dato Dr Ong Eng Long

It's that time of year again - the end of the year Holiday Season, especially if you have school going children or grandchildren. The family will be testing your good will and generosity to demand a holiday trip to somewhere exotic and most likely you will comply. While others less fortunate, like me, will be rushing to meet the end-of-the-year deadlines and perhaps bring increased feeling of stress and anxiety to the New Year.

Normally, I would love to parade in the December Newsletter, our successes and achievements that IMM enjoyed in 2011. However, I am reminded of the targets of getting 1000 participants, 600 presentations and 50 exhibitors for the 8th International Materials Technology Conference and Exhibition (IMTCE 2012) which will be held on 5-12 July, 2012. These targets seem unreachable and the faint hearted have revised the numbers downwards. With the IMM 3000 plus members each contributing his or her share of responsibility and the international connections that we have out-reached, I am confident that we can achieve our targets of having a successful 8th IMTCE 2012.

Unlike previous years, the IMTCE 2012 will consist of more than ten different symposiums which are held concurrently. These symposium topics are carefully selected to cover all aspects of materials science and technology. Each symposium is chaired by a senior IMM member and co-hosted by a specially selected organisation. As such, all potential paper pre-

senters/participants should have no problems identifying the symposiums which they intend to submit papers and to participate. In addition, there will be eight master classes to cater for the needs of the industrial members and students. I wish to appeal to all chairpersons and co-hosts of symposiums to help to attract at least 100 participants and 30 papers to their symposiums. I would also like everyone to help to solicit exhibitors to make the IMTCE 2012 a really the most grandeur one.

To make IMM visible and recognizable, we must create public awareness, understanding and appreciation of materials science and technology. We hope to organise some activities in 2012 with these objectives in mind. It is hoped that all IMM members will support and assist us to realise our missions.

This will be the last time that I am writing in this Newsletter as the President of IMM. I would like to take this opportunity to thank you for your support to IMM and to me in all these years. During my tenure as President, it was my humble wish to get professional recognition for our members. Although I have not achieved this goal fully, the conducting of the Associate Welding Engineers, Welding Engineers and Senior Welding Engineers program for our members is a mean to achieve the end. I hope this training program will continue to get your support and to bring benefits to our members.

Thank you once again and with best wishes to all for a happy and successful 2012.



Happy participants at the dia-

ASIAN WELDING STANDARDS

Continued from Page 1

2002 to co-ordinate the efforts in standardization of welding standards in the Asia-Pacific, present a common platform at the ISO TC 44 Committee, promote a greater efficiency for welding for all related industries and lower costs by improving the economy of the region.

To do so, the AWF will adopt a standardized welder qualification programme among all the member countries. The MOS programme already has the

backing of the Oil & Gas & Petrochemical Operators and the Government agencies (SPRING) in Singapore. The MOS qualifies welders once and monitors the registration of these welders via Welder Qualification Tests (WQT), and standardizes Welding Procedure Specifications (WPS), thus reducing costs of re-qualification and yet maintaining the skills standards.

Note: More related news on page 5.

IMM WORKING COMMITTEES

2010 - 2012

Examinations, Certification and Accreditation Panel (ECAP)

Chairman: Prof Dr Kamal Harun
 Secretary: Kirk Keng Chuan
 Co-Sec: Azman Murad
 Committee Members:
 Maimunah Ismail
 Kang Kim Ang
 David Lim
 Yeoh Tian Hock
 Dr Edwin Jong
 Ismail Abu Bakar
 Noor Hlsyam Noor Mohamed

Coatings Committee

Chairman: David Lim
 Dep Chairman: Johar Juhari
 Secretary: Yeoh Tian Hock

Committee Members:

Dato' Udani bin Dato' Seri Mohd Daud
 Prof Dr Mohd Kamal Harun
 Chong Horng Yih
 Frankie Chua
 Junaidy Abdullah
 Lim Wai Bin
 Muhammad Hawari Hasan
 Roslan Ismail
 Tan Ju Liang
 Ting Lai Liong
 Wong Ing Chiew

Corrosion Committee

Chairman: Maimunah Ismail
 Vice Chairman: Kang Kim Ang
 Secretary: Nor Aida Hussin
 Committee Members:
 Eric Lay
 Jeffery Ngau Uvang
 Junaidy Abdullah
 Kenny Siew
 Mohd Rais Sabiyah
 Muhamad Paizal Othman
 Rozle Sazlee
 William Lim

Nanomaterials

Chairman: Dr Azmi Idris
 Dep Chairman: Prof. Dr. Ahmad Fauzi Mohd Noor
 Secretary: Dr. Talib Ria Jaafar
 Committee Members:
 Dr. Aziz Mohamad
 Dr. Mat Husin Saleh
 Dr. Mohd Radzi Mohd Toff
 Dr. Teng Wan Dung

Eastern Chapter

Chairman: Harry Woon

Northern Chapter

Chairman: Prof Dr Hanafi Ismail

Composites Committee

Chairman: Siti Haslina Ramli
 Secretary: Razman Marsoff Johar
 Committee Members:
 Dr Caroline Jee
 Dr KH Leong
 Dr Roslina Ismail
 Elizah Samat
 Zulkarnain Mohamad

Green Materials Committee

Chairman: Dr Chen Sau Soon
 Dep. Chairman: Prof Dr Saifollah Abdullah
 Secretary: Abd Razak Hurairah

Committee Members:

Angelina Edward
 Arnold Denes
 Eng Kim Leng
 Frankie Chua
 Hahnas Mahbut
 Hussein Mahmat
 Yeoh Eng Huei
 Zamaluddin Ali

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 Vice Chairmen: Ismail Abu Bakar
 Hj Ghalib Tham
 Secretary: Md Hafidzuddin Mohd Salleh

Committee Members:

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 Dr Samsul Bahar Sadli
 Dr Teh Ser Kok
 Abu Bakar Mohd Arif
 Barry Edmonds
 Faisal Luis Amoroso
 Kelvin Chan
 Maruthamuthu Pushpanathan
 Mohd Shahrizal PKM Seeni Mohd
 Nigel Brewitt
 Steve Yeong
 Tan Yew Min
 Thomas Teo

Vibration

Chairman: Noor Hisham Abdul Hamid
 Committee Member: Gary Lee

Rheology

Chairman: Dr Aaron Goh
 Dep Chairman: Dr Azuraen Jaafar
 Committee members-
 Prof Dr Abdul Karim Alias
 Dr Chew Kong Chin
 Dr Chin Nyuk Ling
 Dr David Hassell
 Dr Ngu Joo Ding
 En Dzulkifly Mat Hashim

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 Secretary: Lai Kok Leong
 Committee Members:
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 Drahan Matzin
 Duan Kelvin Seling
 Giridharan Anandan
 Liew Shann Ching
 Liew Wei Yew
 Mackenzie Soret
 Priscilla Henry
 Sylvia Laggat

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 Vice Chairman: Leong Yin Chin
 Secretary: Felix Bantin Ak Amit
 Committee Members:
 Chung Yih Yenn
 Steward Siran

Kuching Chapter

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 Chairman: Nuzul Adzwan Sulaiman
 Secretary: Wan Mohd Naguib
 Committee Members:
 Biran ak Atu
 Dominic Christopher ak Keli

Labuan Chapter

Chairman: John Wong Pak Kung
 Secretary: Chrys Johanathan
 Treasurer: Ooi Ling Lew
 Committee Members:
 Bonaventure Petrus
 Chieng Kung Lik
 Jeffery Ngau Uvang
 Liew Ep Ping
 Rohaiza Morshaid

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 Dep Chairman: Mohd Khairul Mohd Nazar
 Secretary: Dr Tuty Asma Abu Bakar
 Committee Members:
 Dr Ali Ourdjini
 Dr Muhammad Azizi Mat Yajid
 Engku Mohd Nazim Engku Abu Bakar

Sabah Chapter

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 Secretary: Dr. Chong Siaw Fung
 Committee members:
 Ir. Lee Hung Sang
 Ahmad Tirmizi Ali Amat
 Chung Tze Kong
 Mohd. Khairudin Mohd. Naser
 Jamir Mahmood
 Natalie Fung
 Simon Thien
 Valarie Fung
 Vanessa Foo

TRAINING BODIES IN MALAYSIA

The Institute of Materials Malaysia (IMM) who is an active member of the Asian Welding Federation (AWF) is tasked to implement and monitor the Common Welder Certification Scheme (CWCS) for certified welders in Malaysia. Within the scheme, the Malaysian Authorised Certification Body (MAS-ACB) under the leadership of IMM has already been formed and comprises relevant stakeholders from suppliers, manufacturers, technical service providers, fabricators, end-users and institutes/associations involved with welding technology. IMM's task also includes approving training bodies (Approved Training Body - ATB) which have been deemed to have fulfilled the requirements of ISO 17024, and training centres (Approved Testing Centre - ATC) as per ISO 17025 requirements implementing and/or assessing welder qualification tests according to ISO 9606-1 (Qualification testing of welders - Fusion



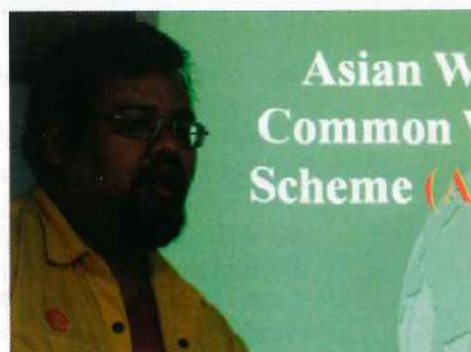
ACB Members (L-R): Prof Dr Mohd Kamal Harun, Dr Edwin Jong, Zamaluddin Ali

welding - Part 1: Steels) requirements. Qualified and experienced experts from the various industries and academia have been appointed to committee of the MAS-ACB.

Training and testing centres are being approved as required. MAS-ACB welcomes applications for the AWF ATBs. Interested parties are to contact IMM at email iomm@po.jaring.my for more details.

*MOS is a database
that organises,
administers and
monitors skilled
workers*

MOS ONBOARDING



Zamir Mohamed-Daud (Head of Inspections)
GSMY-PTE/PMMI

Port Dickson - 1 November, 2011

The Asian Welding Federation Common Welder Certification Scheme (AWF CWCS) utilises the Manpower Optimisation System (MOS) in the certification of welders.

MOS is a database that organises, administers and monitors skilled workers.

The scheme provides standardisation and harmonisation of the certification of welders which will reduce uncertainty and lack of confidence in the weld quality with better manpower management. The internet linked system of shared information of a common pool of skilled manpower will benefit contractors. Such arrangement would assure quality and skills standards, reduce costs in welder qualifications whilst upgrading and maintain skills in the skills qualification and certification system.

Being aware of the benefits of the MOS, key lead team members were present when Ang Chee Pheng, Secretary General of the Asian Welding Federation presented the benefits of the Common Welder Certification Scheme (CWCS). Following the presentation, representatives from Shell, its contractors as well as inspection companies were provided with a hands-on demonstration of the system.

IMM TO SERVE IN SABAH



Signed, Sealed and Delivered: Dato Dr Ong Eng Long exchanging the MOU with Datuk Seri Panglima Wong Khen Thau (second from right), witnessed by Prof Dr Mohd Kamal Harun (L), Datuk Dr. Yee Moh Chai (C) and Luiz Liew (R)

Kota Kinabalu - 25 November 2011

In line with its objectives to create awareness, promote and encourage materials science, technology and engineering as well as skill sets, the Institute of Materials, Malaysia (IMM) signed an Memorandum of Understanding (MOU) with the Sabah Skills & Technology Centre (SSTC) in Kota Kinabalu, witnessed by the Dep-

uty Chief Minister/Minister of Resource Development & Information Technology, Yang Berhormat Datuk Dr. Yee Moh Chai who said "The Government of Sabah has projected the overall investments in Sabah which will require a well-placed infrastructure and proper planning of manpower requirement. The Human Capital development programme will help achieve and fulfil objective of the Oil & Gas Industry in the state."

The MOU will pave the way for IMM to offer its' well accepted training and certification programmes to Sabahan school leavers, general workers, skilled workers, technicians and engineers so that a pool of skilled personnel can be developed for the local oil & gas industry. IMM was represented by its President, Dato' Dr. Ong Eng Long, Deputy President, Professor Dr. Mohd. Kamal Harun and Chairman of IMM Sabah Chapter, Ir. Luiz Liew while SSTC was represented by its Chairman, Datuk Seri Panglima Wong Khen Thau and Director, Ms. Natalie Fung. With the mushrooming oil & gas developments in Sabah, it is timely for IMM to offer its services to develop local Sabahans with technical skills in coatings, welding and corrosion jointly with a local Sabah-based training organization.

LEADERS IN PROTECTIVE COATINGS



Here we go: Dato Dr Ong Eng Long (3rd from left) receiving the signed MOU from William Shoup, whilst Max Ong Chong Hup (L), Prof Dr Mohd Kamal Harun, Prof Dato Dr Mohd Mansor Salleh and Tom Jones look on.

Shah Alam - 15 November 2011

The coatings committee of Institute of Materials, Malaysia (IMM), together with SSPC, held a symposium entitled "Advanced Coatings Standards & Technology". The chairman of the committee, David Lim, envisaged that "the education and skills of coatings technicians will be further enhanced with continual learning and awareness of the advancement of standards and technology that are constantly being introduced." Five topics were presented during the day-long event. An MOU between IMM and SSPC were signed by Dato Dr Ong Eng Long and Bill Shoup, Executive Director of SSPC.

The IMM, in seeking continual improvement in assisting service providers provide quality services to industries, has been conducting training courses on coatings for 20 years. As development in materials and materials technology become advanced, an up-to-date knowledge of these changes is inevitable. This symposium, for self-improvement based on continuous learning, serves to create awareness of available new technology, equipment, instruments, materials and education which are required by service providers who would match client's specifications.



The Asian-Australasian Association for Composite Materials (AACM) was founded in 1997 to encourage the free exchange of information and ideas on composite materials which are of interest to the scientific and engineering communities.

Since its inception the association has made great strides towards the provision of an Asian-Australasian-wide discussion forum by organising the ACCM series of conferences. Malaysia will be hosting the 8th Asian-Australasian Conference on Composite Materials (ACCM-8) in Kuala Lumpur, on 6-8 November 2012.

With the theme "Composites: Enabling Tomorrow's Industry Today", ACCM-8 will continue with the tradi-

tion of all the previous ACCMs by providing a high quality technical program, whilst placing special emphasis on converging R&D's efforts towards providing real engineering solutions.

ACCM-8 cordially invites you to submit abstracts for oral and poster presentation. The topics of interest at ACCM-8 will cover all aspects of composite materials and structures including the areas listed below. All types of composites (polymer, ceramic and metal based) will be addressed at the conference. Keynote lectures and special symposia/sessions by leading experts focusing on emerging composite technologies & applications will be organized concurrently with ACCM-8.

For more details, please visit www.accm8.my.

IMM COLLABORATES WITH IEM IN SEMINAR



Engrossed: Seated front (L-R) Maimunah Ismail, Prof Dr Mohd Kamal Harun, Ir Mohd Yusri Mohamed Yusof, Harry Woon and Max Ong. Below: Participants of visit to Ethylene Malaysia Sdn Bhd



Paka - 4 July 2011

"Corrosion & Materials Degradation" was the theme of the seminar jointly organised by the IMM Corrosion & Materials Degradation and East Coast committees, in collaboration with the Institution of Engineers Malaysia (IEM) Terengganu Branch - Kertih Committee. Interest was high, especially when the event covers topics such as Oxidation & Decarburization of 33Fe-45Ni-35Cr Alloy for Cracking Furnace Radiant Tube, CUF Recent Case Study, PGB Piping Integrity Management System, Indirect Inspections for Buried Pipeline External Corrosion Direct Assessment and Polyurea Coating. All speakers were very adept in fielding question after question from the floor.

Ir Mohd Yusri Mohamed Yusof, Chairman of IEM, Terengganu Branch, wished in the opening address that 'more seminars on materials science and engineering be held in the region to provide opportunities to the young engineers to improve and upgrade themselves with useful updated information'.

The chairman of the Corrosion and Materials Degradation committee, Pn Hjh Maimunah Ismail, was happy that the occasion has been able to serve the engineering fraternity in Terengganu as most seminars of such interest are held in Kuala Lumpur, whilst Mr Harry Woon, chairman of the East Coast committee said "IMM will continue to play its part to disseminate new information on advances in materials to the public".

Following the seminar, some participants visited the Ethylene Malaysia Sdn Bhd plant, whilst others enjoyed a game of golf at a golf course nearby.

Vibration Practitioner Need To Be **certified?**

Why?

To ensure a global standard of engineering practices are utilised and maintained in the field of vibration diagnosis using vibration technology.

By Whom?

Institute of Materials Malaysia

Which Standards?

In compliance to ISO 18436-2:2003



Vibration caused by Imbalance, Misalignment/Shaft Runout, Wear & Tear and Looseness in equipment and machinery affects production efficiency and quality. The socio-economic impact of vibration costs millions in downtime. A plant maintenance professional with a typical, long-term vibration monitoring programme is essential in controlling and managing vibration in equipment.

IMM offers maintenance personnel the opportunity to be a professional vibration specialist according to ISO standards. Enroll now!



For more info :

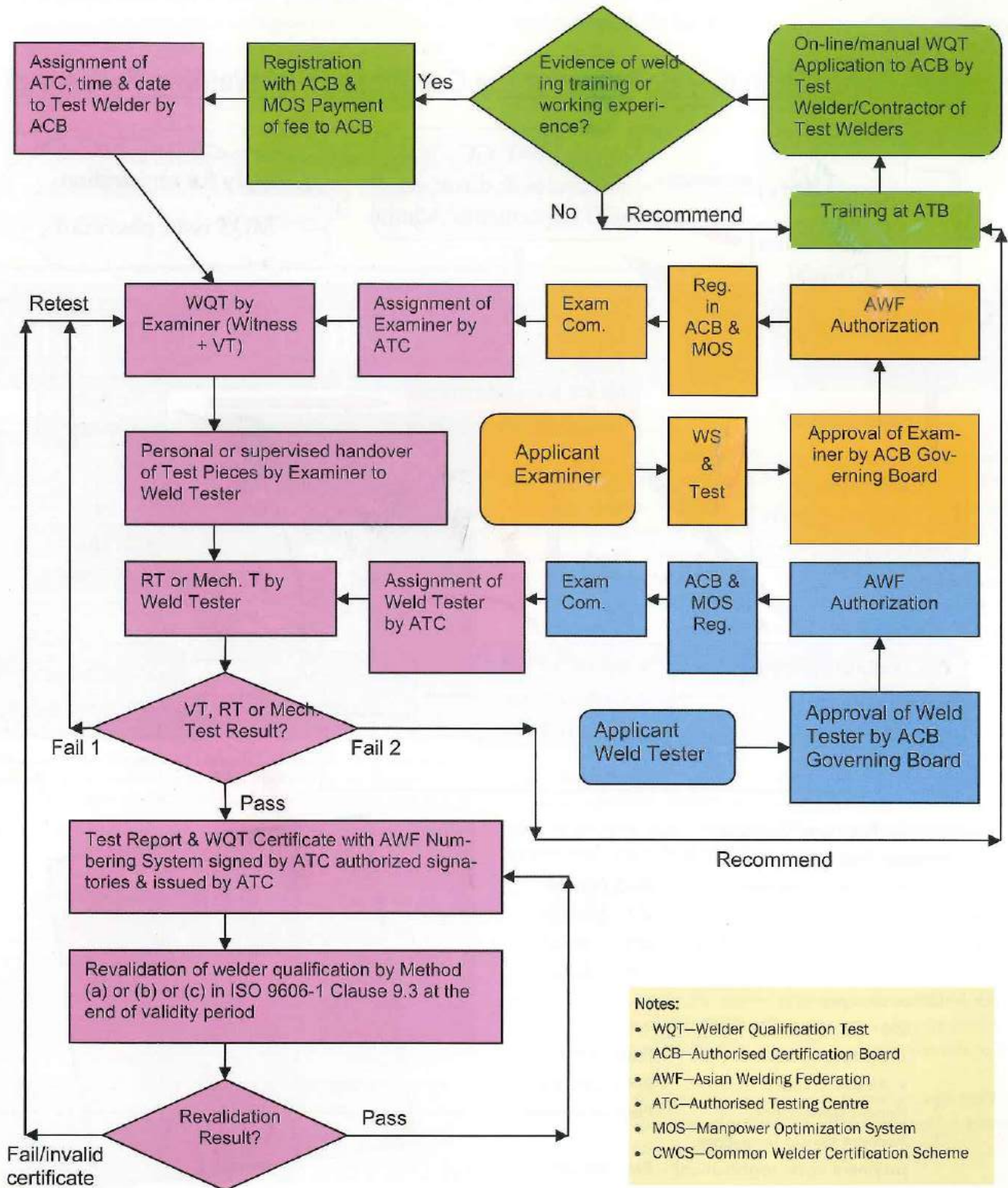
+603 5882 3574

info@mte.com.my

www.mte.com.my

CWCS WQT PROCESS CONTROL CHART

- All WQT shall be conducted by Examiners and Weld Testers approved by ACB Governing Board of each AWF member country, endorsed and authorised by the AWF Governing Council, and subsequently assigned by the ATC. All WQT outcomes shall be decided by Examiners and Weld Testers from an Examination Committee, who have conducted the WQT.
- A letter of authorisation to each ATC Examiner and Weld Tester shall be issued by the AWF via MOS Network and is therefore available in MOS Network for authentication purposes if required by any participant of the CWCS.
- Specific ATC, date and time of WQT for Test Welders shall be assigned only by ACB.
- Conduct of WQT shall be an audit item that shall be assessed by ATC Assessors in all initial, surveillance and renewal of approval audits and spot checks.



- Notes:**
- WQT—Welder Qualification Test
 - ACB—Authorised Certification Board
 - AWF—Asian Welding Federation
 - ATC—Authorised Testing Centre
 - MOS—Manpower Optimization System
 - CWCS—Common Welder Certification Scheme

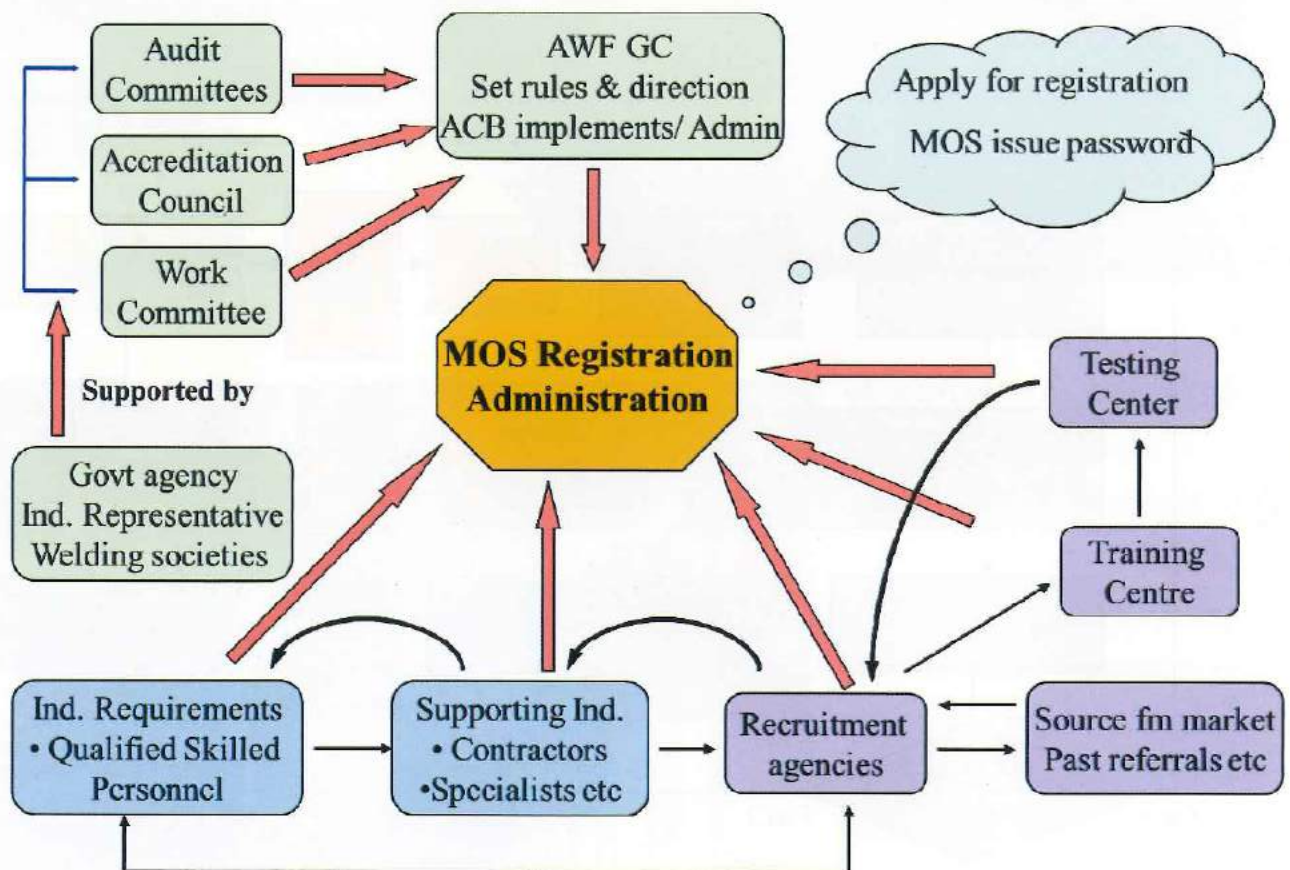
FLOW OF MOS



The Manpower Optimization System (MOS) was introduced to oversee the continuous work experience of skilled tradesmen. It has now more than seven hundred workmen in its register. Those registered in MOS are automatically re-certified as long as their records are up to date and in order. The scheme is easily accessible to project owners, clients, fabricators and contractors who can seek qualified, experienced and skilled workers from the database via the internet.

For more information, call Primos at Tel: (603) 5882 3574 or visit www.primos.com.my or email info@mte.com.my

AWF CWCS & MOS – Scheme for the Certification of Welding Personnel



Applicable Fees and Charges

Subscription fees (yearly basis)

- Owner/Client company - RM5,000.00
- Contractor - RM 600.00
- Certified Welding Inspectors - RM 150.00
- Certified Welder - RM 120.00
- Other charges
 1. User IDs
 - Up to 3 users - Free of charge
 - Above 3 users - RM 20.00 per ID
 2. Report generation - Free of charge
 3. Account set-up (one-time payment upon registration) - RM 100.00



COMPOSITES INTEREST



Remembering the visit: Siti Haslina (2nd from left) and Azmi Omar (6th from left) with the happy visitors.

A group of enthusiast learners were met by En Azmi Omar, Chief Technical Officer of Composites Technology Research Malaysia Sdn Bhd (CTRM) during a recent visit. Led by Siti Haslina, chairman of the IMM Composites committee, the party were briefed on the progress of the company which began its operations in 1990 in Malacca. The main service is manufacturing of composites aero structures amongst several others.

A guided tour of the manufacturing plant followed the briefing, where Azmi was busy fielding question after question about the materials used, source of materials and the manufacturing processes from the eager participants. For many this is the first time they had the opportunity to visit a high security manufacturing plant to observe a process for a very specialised industry – the aero nautical industry. All wanted another opportunity to visit CTRM.

*“Enjoy benefits of
IMM at no annual
membership fee”*

ORDINARY MEMBERSHIP FOR AFFILIATES

The Institute of Materials, Malaysia (IMM) recognizes the value of members of other institutes and associations who has interest in matters of materials, materials technology and science which affects their profession and work. As materials is relevant in the human daily lives,

IMM will recognize various professional institutions and societies for free membership at “Ordinary Grade “. Members of the recognized professional institutions and societies can become Ordinary Members of the IMM without any annual subscriptions. The Council of the IMM approved the proposal in accordance to IMM Rules clause no. 3.2.3 and the members at its 21st Annual General Meeting unanimously approved the proposal on 19th March 2011. Eligible members will need to fill up an application form and submit a copy of their membership certificate from their institute/society plus a one-time payment of RM40.00 for the IMM membership certificate and ID card.

Please contact Mr Azman Murad at iomm@po.jaring.my for the application form or obtain it from IMM website www.iomm.org.my/v3

IMM'S 22ND ANNUAL GENERAL MEETING SEMINAR

(Jointly organized by IMM Coatings and Composites Committees)

Date: Friday 30th March 2012

Venue: Kelab Golf Negara Subang, Kelana Jaya , Selangor



CORROSION CONTROL SYSTEMS FOR HIGH TEMPERATURE FACILITIES IN OIL & GAS INDUSTRY

Pipes and pressure vessels subjected to high temperatures, cyclic hot & cold conditions, and exposures to corrosive & salty environments in petrochemical plants and offshore facilities have traditionally been coated with high-temperature paints for corrosion protection. The performance of such paint systems has been unsatisfactory in many facilities. This seminar is aimed at discussing newer developments of corrosion protection systems for high temperature and high pressure facilities in the oil & gas industry.

TENTATIVE PROGRAM

- 2:30pm : Registration & refreshments
- 3:00pm : Welcoming Remarks
- 3:15pm : Presentation on Thermal Spray Coatings for pressure vessels & pipes under cyclic temperatures
- 3:45pm : Presentation on Copolymeric Coatings for high temperature applications
- 4:15pm : Presentation on Polymer Composite Cladding for Offshore Hot Pipeline Risers
- 4:45pm : Panel Discussion
 - David Lim (IMM Coatings Committee Chairman)
 - Siti Haslina (IMM Composites Committee Chairman)
- 5:15pm : Closing Remarks
- 5:30pm : Tea / Coffee & refreshments
- 6:00pm : IMM 22nd Annual General Meeting
- 7:00pm : ADJOURN

FEES: IMM Members : RM50.00 Non-members : RM80.00



For registration details, contact IMM Secretariat at:

Tel: (603) 5882 3574

Fax: (603) 5882 3524

Email: iomm@po.jaring.my

Institute of Materials,
Malaysia



<http://materialsimm.blogspot.com/>

Institute of Materials, Malaysia (IMM) is a professional society that promotes honorable practice, professional ethics and encourages education in materials science, technology and engineering. Engineers, academicians, technicians, skilled workers and professionals are amongst its members exceeding 3000.

Vision

To Become the Authority on Materials Science Technology & Engineering in Malaysia by 2020

Mission

- *To Become the Centre for Materials Information in Malaysia*
- *To Provide Route to Attaining Professional Status for Materials Specialists in Malaysia*
- *To Provide Technical Skill Certification and Educational Programmes in Materials Science, Technology & Engineering*

Brief

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. In 1996, the change of name to the Institute of Materials, Malaysia (IMM) was submitted to the Registrar of Societies and approved on 16th June 1997. The new name was to be synergistic with the rest of the world. For example in the case of The United Kingdom, The Institute of Metals, The Institute of Ceramics and The Plastics & Rubber Institute were merged into a single Institute of Materials in 1992 where its members are recognized as professionals with the status of a Chartered Engineer (C.Eng). The technology of materials is advancing day-by-day throughout the world. We must keep up with the pace of technological advancement. The objectives of the IMM include the training and development of individuals and companies in Malaysia to attain professional recognition in various fields of materials science, technology and engineering.

The long term objective of the IMM is to attain professional recognition for its members in line with that which is accorded to the other disciplines of science, technology and engineering. Membership of IMM is opened to all individuals and companies keen in developing and contributing toward the growth of materials science, technology and engineering in Malaysia. Materials cover a very wide field such as metals, polymers, rubber, wood, concrete, ceramics, semiconductors, advanced materials, cellulose, textiles, etc. Membership to the IMM will enable networking and exchange of knowledge from a very wide variety of specialized areas of expertise. The IMM is also committed to seeking affiliations with overseas Materials and Engineering/Scientific professional institutions to gain access to technological developments worldwide.

IMM Working Committees

Please see page 4 for details.

Institute of Materials,
Malaysia

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Malaysia

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