

INSTITUTE OF MATERIALS, MALAYSIA

ANNUAL REPORT OF THE COUNCIL FOR THE FINANCIAL YEAR ENDING 31ST DECEMBER 2017

Dear IMM Members,

On behalf of the IMM Council, I am pleased to present the Report of the activities of IMM covering the period from 1st January 2017 to 31st December 2017 plus activities prior to this AGM in early 2018.

(I) IMM COUNCIL AND IMM MANAGEMENT COMMITTEE MEETINGS

For the year under review, the IMM Council held 4 meetings while the IMM Management Committee held 7 meetings.

Date	Event
	Council term: 2016 - 2018
16 th February 2017	Council Meeting no. 4
2 nd May 2017	Council Meeting no. 5
28 th July 2017	Council Meeting no. 6
7 th October 2017	Council Meeting no. 7

Date	Event
	Council term: 2016 - 2018
6 th January 2017	Management Committee Meeting no.4
16 th February 2017	Management Committee Meeting no.5
17 th April 2017	Management Committee Meeting no.6
19 th May 2017	Management Committee Meeting no.7
28 th July 2017	Management Committee Meeting no.8
28 th August 2017	Management Committee Meeting no.9
24 th October 2017	Management Committee Meeting no.10

During the penultimate IMM Council Meeting no. 7 (term: 2016 – 2018) on 24th October 2017 at Kelab Golf Negara Subang, the IMM Council conducted elections from within the Council, in accordance with Clause no. 3.3.2.2 of the IMM Constitution for the posts of Deputy President, Honorary Secretary and Honorary Treasurer for the 2018-2020 Council Term.

Mohd. Azmi Mohd Noor (F3820) from Kebabangan Petroleum Oil Company Sdn Bhd will continue his second term as President for 2018 – 2020 Council Term. The term of office for the President shall be two consecutive terms in accordance with Clause no. 3.3.2.1 of the IMM Constitution.

The following were elected:-

Deputy President: Dato' Dr. Ir. Hj. Mohd Abdul Karim Abdullah (F7442)
proposed by Prof. Dr. Mohamad Kamal Bin Harun (F0117) and seconded by Ir. Mohd Suradi Yasin (F0010)

Honorary Secretary: Assoc. Prof. Dr. Melissa Chan Chin Han (F4118)
proposed by Dato' Udani Dato' Seri Mohamed Daud (F7208) and seconded by Zainudin Zulkifli (F7045)

Honorary Treasurer: Dr. Zulkarnain Kedah (F7911)
proposed by Sofiyan Yahaya (F6040) and seconded by Assoc. Prof. Dr. Melissa Chan Chin Han (F4118)

The IMM Council congratulates the above elected officials and look forward to their contribution towards the development of materials technology through the IMM.

(II) THE ACTIVITIES CARRIED OUT BY THE VARIOUS IMM WORKING COMMITTEES AND REGIONAL CHAPTERS ARE LISTED BELOW:-

DATE	ACTIVITY	COMMITTEE
JAN	Materials Mind Issue 16	
5 Jan	Coating Committee Small Group Meeting on Recertification	Coating Committee & Materials Technology Education Sdn Bhd (MTE) team
6 Jan	4 th Management Committee Meeting at Pappa Rich, Subang Parade	Management Committee & Secretariat
10 Jan	Meeting with National Metrology Institute of Malaysia (NMIM)	Suradi, Dr. Zulkarnain & MTE team
12 Jan	Southern Chapter meeting at Universiti Teknologi Malaysia (UTM)	Southern Chapter & Education Committee
12 Jan	6 th Vibration Committee Meeting at Menara Dayabumi	Vibration Committee & Secretariat
13 Jan	Meeting with Dialogue and Pengerang Integrated Petroleum Complex (PIPC) in Pengerang	Education Committee
14 Jan	1 st IMM Away Day at Amerton Cove Golf Club	Management Committee & Council
14 Jan	5 th Miri Chapter Meeting (Session 2016-2018) at AMW Conference Room, Miri	Miri Chapter
19 Jan	2 nd Coating Fingerprinting (FP) Task Force Meeting 2017 at Kelab Golf Negara Subang (KGNS)	FP Task Force & Secretariat
10 Feb	2 nd Insulation Committee Meeting	Insulation Committee & Secretariat

DATE	ACTIVITY	COMMITTEE
13 Feb	2 nd IMM Away Day Meeting at PETRONAS Twin Towers	Management Committee & Council
13 Feb	Meeting with CETIM Asia Pacific	Azmi, Max Ong, Nigel, Dr. Andrew Spowage, Melissa
15 Feb	Coating Conference Organizing Committee Meeting at KLCC	Coating Committee & Secretariat
16 Feb	Materials Mind Meeting on advertisement at Tunku Abdul Rahman University College (TAR-UC)	Materials Mind Committee & Secretariat
16 Feb	5 th Management Committee Meeting at KGNS	Management Committee,
16 Feb	4 th Council Meeting at KGNS	Council & Secretariat
17 Feb	Vibration Conference Organizing Committee at ICON Building	Vibration Committee & Secretariat
17 Feb	7 th Vibration Committee Meeting at ICON Building	Vibration Committee & Secretariat
20 Feb	4 th Corrosion Committee Meeting	Corrosion Committee & Secretariat
22 Feb	Meeting with Southern Chapter on IMM-UTM Symposium on Materials Processing, Inspection and Testing at UTM, Johor	Southern Chapter & Secretariat
23 Feb	½-day IMM Coating Seminar at Tanjung Puteri Golf Resort, Pasir Gudang, Johor	Coating Committee, Council & Secretariat
25 Feb	IMM Futsal Tournament Game at IM4U, Puchong	Azmi, Max Ong & Secretariat
28 Feb	Website meeting at IMM Secretariat Office, Puchong	Website Committee & Secretariat
2 Mar	Materials Mind Meeting at IMM Secretariat Office, Puchong	Materials Mind Committee & Secretariat
3 Mar	2 nd Welding Committee Meeting at CIAST, Shah Alam	Welding Committee & Secretariat
11 Mar	6 th Miri Chapter Meeting at BV Conference Room, Miri	Miri Chapter
16 Mar	1-Day IMM Conference on Insulation at UTM Space	Insulation Committee & Secretariat
16 Mar	27 th IMM Annual General Meeting at UTM Space	Council & Secretariat
17 Mar	Signing of IMM-Society for Protective Coatings (SSPC) Cooperation Agreement at Malaysian Petroleum Club	Coating Committee, Council & Secretariat
20 Mar	7 th Vibration Committee Meeting at Menara Dayabumi	Vibration Committee & Secretariat
30 Mar	½-Day IMM Vibration Awareness Seminar & Plant Visit at Tentera Laut Diraja Malaysia (TLDM), Lumut, Perak	Vibration Committee & Secretariat
31 Mar	5 th Materials Mind meeting	Materials Mind Committee & Secretariat

DATE	ACTIVITY	COMMITTEE
31 Mar	2 nd Website Committee meeting	Website Committee, Melissa & Secretariat
April	Materials Mind Issue 17	
6 April	Plant Visit at RAPID Pengerang, Johor	Corrosion Committee & Secretariat
7 April	2 nd Materials Lecture Competition (MLC2017) Committee Meeting	MLC Committee
10 – 11 April	6 th Sabah Oil & Gas Conference & Exhibition	MTE team
17 April	8 th Vibration Committee Meeting	Vibration Committee & Secretariat
18 April	1-Day IMM Awareness Seminar: Monitoring and Management of Vibration at Tatiuc, Kemaman, Terengganu	Vibration Committee & Secretariat
18 April	MLC 2017 Semi Final at Asia Pacific University, Kuala Lumpur	MLC Committee & Secretariat
20 – 21 April	International Conference on Materials Technology and Energy 2017 (ICMTE), Curtin University, Miri, Sarawak	Miri Chapter, Azmi & Institution of Engineers, Malaysia (IEM), Miri
2 May	5 th Council Meeting at KGNS	Council & Secretariat
2 May	Career Talk at International College of Advanced Technologies (ICATS), Kuching, Sarawak	Vibration Committee & Student Chapter
4 May	Facility Integrity & Maintenance Conference, Golden Bay Hotel, Bintulu, Sarawak.	Bintulu Chapter & Secretariat
5 May	3 rd Welding Committee Meeting at CIAST, Shah Alam	Welding Committee
10 May	IMM Coating Friendly Golf Game, Kinrara Golf Club, Bandara Kinrara, Puchong, Selangor.	Coating Committee & Council
16 May	MLC2017 Final at Asia Pacific University, Kuala Lumpur	MLC Committee & Secretariat
18 May	1-Day IMM Coating Conference on Combating Coating Failure, Corus Hotel, Kuala Lumpur	Coating Committee & Secretariat
22 May	Visit to Chinese Mechanical Engineering Society (CMES) and China Center for NDT Certification.	Vibration Committee & Secretariat
24 May	Visit to South West Jiao Tung University (SWJT) and National Rail Traction Research Centre.	Vibration Committee & Secretariat
27 May	7 th IMM Miri Chapter Meeting at AMW Conference Room, Miri	Miri Chapter
11 July	5 th Corrosion Committee Meeting at Malaysia Petroleum Club, PETRONAS Twin Tower	Corrosion Committee & event organizer
18 July	½-Day IMM-Interscience-Quantachrome Seminar on Characterizing Porous Materials and Powder at ITS Office, Shah Alam, Malaysia	Polymer Committee & Azmi
29 Jul	8 th Miri Chapter Meeting at BV Conference Room, Miri	Miri Chapter

DATE	ACTIVITY	COMMITTEE
9 Aug	5 th Vibration Committee Meeting at Room 1001, Level 10, Menara Dayabumi, KL	Vibration Committee & event organizer
24 Aug	1-Day UTM-IMM Symposium on Materials Processing, Impact and Testing	Southern Chapter, Melissa, Suradi, Max Ong & event organizer
7 Sept	6 th Corrosion Committee Meeting at Menara Shell	Corrosion Committee & event organizer
15 Sept	4 th Welding Committee Meeting at JOTAC Sdn Bhd	Welding Committee
27 Sept	1-Day IMM Conference on Pipeline Corrosion Management at Corus Hotel	Corrosion Committee & event organizer
27-28 Sept	4 th Workshop on Sample Preparation and Microstructural Analysis 2017	Southern Chapter
30 Sept	IMM Vibration Golf at Kota Seriemas Golf & Country Club, Nilai	Vibration Committee & Golf Committee
7 Oct	9 th Miri Chapter Meeting at BV Conference Room, Miri	Miri Chapter
26 Oct	6 th Vibration Committee Meeting at Menara Dayabumi, KL	Vibration Committee & event organizer
31 Oct	1-Day IMM Conference on Prevention of Loss of Primary Containment at Park City Everly Hotel, Bintulu Sarawak	IMM Bintulu Chapter & event organizer
2 Nov	1-Day IMM Coating Conference on Combating Coatings Failure on PFP at KL	Coating Committee & event organizer
3 Nov	Universiti Tunku Abdul Rahman (UTAR)-IMM Student Chapter Talk	Student Chapters & IMM-UTAR Student Chapter
16 Nov	1-Day IMM Vibration Conference, Theme: Vibration Technology in Industry at Corus Hotel, KL	Vibration Committee & event organizer
27 Nov	7 th Corrosion Committee Meeting at Menara Shell	Corrosion Committee
8 Dec	5 th Welding Committee Meeting at CIAST, Shah Alam	Welding Committee
11-14 Dec	SSPC Blasting (C7) & Painting (C12) course and Train-the-trainer course in Shah Alam	Coating Committee and SSPC
21 Dec	Secretariat meeting at KLCC Suria	Azmi, Melissa & Secretariat
26 Dec	Website Committee meeting at IMM Secretariat Office	Dr. Yong, Melissa & Secretariat

In addition to the above committee & regional chapter activities, 53 IMM training courses and certification schemes such as the IMM Coating Inspector Course, IMM Blaster & Painter Scheme, JWES Welding Engineer Course, IMM Corrosion Technician Certification Course, the new IMM Materials Selection & Corrosion and many others were held in 2017. Many of these certifications are mandatory requirements in the Malaysian oil & gas industry. IMM, through its subsidiary company, Materials Technology Education Sdn Bhd (MTE) organized these activities and MTE will present a separate report (APPENDIX 1) to members.

IMM understands the importance of impartiality in carrying out its certification activities and ensuring the objectivity of all its certification. Over the years, MTE have conducted numerous IMM courses on Coating, Coating Fingerprinting, Corrosion, Welding, Insulation, Vibration *etc.* Over 600 Coatings Inspectors have been trained and certified as well as 2500 Blasters & Painters, Supervisors, Corrosion Technician and Vibration Practitioners. Its certification programs are recognized by PETRONAS and all oil & gas operators. Since January 2011, 72 Associate Welding Engineers, 80 Welding Engineers, 20 Senior Welding Engineers and 24 Coating Fingerprint Quality Controllers were trained and certified.

(III) HIGHLIGHTS OF ACTIVITIES IN 2017

(3.1) Relocation of IMM Secretariat Office [Compiled by Honorary Secretary: Assoc. Prof. Dr. Melissa Chan Chin Han (F4118)]

- IMM set up its own Secretariat office starting 1st July 2017.
- IMM Secretariat office was relocated to new premises (No. D-0-9, Setiawangsa Business Suite, Jalan Setiawangsa 11, Taman Setiawangsa, 54200 Kuala Lumpur, Malaysia) since 1st July 2017. IMM took over the administration of the secretariat matters in progressive manner from our formerly appointed service provider of secretariat service [*i.e.* MTE]. IMM expressed its gratitude to MTE directors and staffs for the secretariat works over the past ten years.
- MTE was relocated to a new location (No. 2, Jalan TPP 5/17, Taman Perindustrian Puchong, Seksyen 5, 47160 Puchong, Selangor). MTE expressed its gratitude to the IMM Council and Committee Members for their support over the years.

(3.2) New IMM Vision and Mission [Compiled by Honorary Secretary: Assoc. Prof. Dr. Melissa Chan Chin Han (F4118)]

- IMM Away Day was held on 14th January 2017 (Saturday) at Amverton Cove Golf & Island Resorts in Pulau Carey, Selangor. The objectives were :-
 - (1) to revisit IMM strategic plan on mission and vision,
 - (2) to provide road map of IMM for the next 5 years,
 - (3) to strengthen industry-academia linkage (more insights from industry - university perspectives and Malaysian Board of Technology),
 - (4) to uplift IMM's professional status
- Setting of NEW Vision and Mission for IMM on 12th February 2017

VISION

To Be an Internationally Recognised Leading Institution in Materials Science and Technology

MISSION

- To be the technical authority on materials science and technology
- To develop and enhance competency and skills for all categories and practitioners
- To become an internationally recognized certifying body
- To be the forum for industry and academia collaboration
- To positively contribute to society and quality of life

(3.3) 30th Anniversary Gala Dinner Taskforce [Compiled by the Chairman: Dato' Udani Dato' Seri Mohamed Daud (F7208)]

- 30th Anniversary Gala Dinner of IMM was held on 6th November 2017 at the Intercontinental Hotel, Kuala Lumpur. Tan Sri Wan Zulkiflee Wan Ariffin, President & Group CEO of PETRONAS (the guest-of-honor) officiated the gala dinner. Guests and members from Serba Dinamik Group, KNM Group, Dialog Group, Deleum Primera Sdn Bhd, Malaysia Marine and Heavy Engineering Holdings Bhd, Petra Energy Bhd, INSTEP, Sapura Energy, Schmidt Abrasive Blasting Sdn Bhd, Environmental Resources Management (M) Sdn Bhd, Newwin Engineering (M) Sdn Bhd, Boustead Penang Shipyard Bhd, Carimin Petroleum Bhd, DNVGL Sdn Bhd, Materials Technology Education Sdn Bhd, PRA Services Sdn Bhd, Ernerthrust, Akzo Nobel, Jotun (M) Sdn Bhd, Hempel (M) Sdn Bhd, Dayang Holding, HHA Associates Sdn Bhd, RZF Engineering Services, Euro Circuit Tech, Malaysian Offshore Contractors Association (MOCA), Malaysian Oil & Gas Services Council (MOGSC) *etc* had memorable moment for this dinner.
- Milestones of IMM over the last 30 years and recent initiative on coating fingerprinting using infrared spectroscopy for protective coating, reports on various committees were highlighted.
- Prof. Dato' Dr. Hj Mohd Mansor Salleh from Universiti Kuala Lumpur (founder, President and Advisor of IMM) and Ir. Max Ong Chong Hup from Norimax Sdn Bhd (founder and long serving former Honorary Secretary of IMM) were awarded President's Special Awards during the gala dinner. Honorary Fellow certificate was presented to Dato' Dr. Ir. Haji Mohd Abdul Karim Abdullah from Serba Dinamik for his eminence in science or industry.

(3.4) Coating Committee [Compiled by the Chairman: Muhammad Hawari Hasan (O2516)]

- No report was submitted.

(3.5) Corrosion Committee [Compiled by the Chairman: Ir. Ong Hock Guan (F0792)]

- Actively participated in Offshore Technology Conference (OTC) Asia 2018 Programme Committee Meeting at KLCC on 27th Feb 2017 and the 1-Day IMM Conference on Insulation on 16th Mar 2017 at UTM Space, Kuala Lumpur.
- A visit to PETRONAS Rapid Pengerang Plant in Johor Bahru was organized by Corrosion Committee on 6th April 2017. The visit was an eye-opener to the members on the size of the construction sites/plants and the members were impressed by the ginormous equipment being installed.
- 1-Day IMM Conference on Pipeline Corrosion Management was successfully organized by Corrosion Committee at Corus Hotel, Kuala Lumpur on 13th Oct 2017. The event was attended by total of 129 participants, 59 delegates, 30 students from local university, 12 esteem speakers, 24 exhibitors and a keynote speaker. This event drew much attention from the audience to share their experiences knowledge and ideas on managing pipeline corrosion in a holistic manner.

(3.6) Insulation Committee [Compiled by the Chairman: Danny Tan Kim Chew (O7120)]

- The Insulation Committee was formed with the aim to bring together members' experiences, knowledge and ideas to tackle the issues related to insulation.
- The infrastructures of oil & gas, petrochemical, power, oleo-chemicals, marine industries *etc* has numerous issues on corrosion under insulation (CUI) and yet there is lacking of

understanding on the cause of the incidents and the workable solutions to mitigate it. The Insulation Committee has been actively conducting conferences focusing on insulation performance, integrity & quality assurance & quality control (QA & QC) issues relating to insulation specifications, installation issues, performing monitoring issues *etc.*

- The working committee members comprise of experts in their own fields and individual working committee member was given a set of task to ensure the continuous improvement of the insulation issues *via* conferences and road shows to be organized in different regions within Malaysia. This will bring awareness to the industries on the establishment of IMM Insulation Committee.
- Introduced two NEW IMM training courses, *i.e.* (1) Introduction to Thermal Insulation and (2) Certified Thermal Insulation Installer.
- Organized 1-Day Insulation Conference with the theme: "Assuring Integrity & Performance on Insulation" at UITM Space on 16th March 2017 and the response from the conference participants was overwhelming too.

(3.7) Materials Lecture Competitions (MLC) Committee [Compiled by the Chairman: Prof. Dr. Esah Hamzah (F0011)]

- Materials Lecture Competition 2017 (MLC2017) was hosted by Asia Pacific University of Technology & Innovation (APU), alongside IMM and the Institute of Materials, Minerals and Mining, United Kingdom (IOM³-UK). The aim of the event was to provide a platform for young talents to exhibit effective and impressive presentation skills in delivering topics in the field of Materials Science and Engineering. Twelve universities took part in the MLC2017 Semi-Final, namely Universiti Malaya (UM), Universiti Kebangsaan Malaysia (UKM), Universiti Teknologi Malaysia (UTM), Universiti Sains Malaysia (USM), Universiti Malaysia Perlis (UniMAP), Universiti Teknikal Malaysia Melaka (UTeM), Universiti Teknologi MARA (UiTM), APU, Multimedia University (MMU), The University of Nottingham, Malaysia Campus, Taylor’s University and Universiti Tenaga Nasional (UNITEN). The event took place at APU campus in Bukit Jalil, Kuala Lumpur on 18th April 2017. Top five winners went to compete in the MLC 2017 Final which was also held at APU campus on 16th May 2017. The MLC 2017 finals results are as shown in Table 1.
- The first winner of MLC 2017, Mr. Ng Zheng Yu, from Nottingham University Malaysia Campus who represented Malaysia won third place in the Young Persons’ World Lecture Competition (YPWLC) 2017 which was held on 12th October 2017 in Perth, Australia organised by IOM3- UK. UTM was appointed to be the host of MLC 2018.

Table 1 Results of MLC 2017 finals

PrizeCategories	Name of Participant	University	Prize
First Prize	Mr. Ng Zheng Yu	The University of Nottingham, Malaysia campus	Cash prize + certificate + plaque
Second Prize	Mr. Mohd Haziq Dzulkifli	UTM	Cash prize + certificate + plaque
Third Prize	Mr. Muhammad Johan Iskandar bin Zahari	UKM	Cash prize + certificate + plaque
Consolation	Mr. Soo Kuan Lim	USM	Cash prize + certificate
Consolation	Miss Tinesha a/p Selvaraj	UniMAP	Cash prize + certificate

(3.8) Materials Mind Committee [Compiled by the Chief Editors: Assoc. Prof. Dr. Melissa Chan Chin Han (F4118) and Ir. Max Ong Chong Hup]

- Altogether 3 issues published: **Issue 16** (Jan 2017); **Issue 17** (Apr 2017) and **Issue 18** (Oct 2017 – 30th Anniversary Special Issue).
- These quarterly IMM magazines (ISSN no: 2289-9030) were distributed to IMM members. The content of the magazine embraced of reports on IMM events & new IMM courses; technical reports, corporate advertorial *etc.*
- The content of the magazine can be accessed online on IMM website. All the technical reports were can be openly accessed on IMM website.
- Online advertisement on Materials Mind webpage started since July 2017.
- Electronic distribution (*e.g.* eBlast and Whatsapp) of Materials Mind (book format) was attempted for Issue 18.

(3.9) Membership Committee [Compiled by the Chairman: Sofiyan Yahya (F6040)]

- Total number of active members as of 31st December 2017 = 1554 members.
- The IMM continues to encourage members of other professional societies and associations to join as Ordinary Members with no annual subscriptions. Materials Science & Technology is essential to everyone and IMM welcomes the sharing of knowledge & experience amongst professionals from all disciplines (medical, dental, nursing, architectural, engineering, science, arts, physics, biology, chemistry, banking, finance, accounting, legal, insurance, marine, oil & gas, petrochemical, geology *etc.*)
- The IMM also offers free “Company Membership” to Companies who are company members of other Trade Associations such as Malaysian Oil & Gas Services Council (MOGSC), Malaysian Offshore Contractors Association (MOCA), Malaysian Oil & Gas Engineering Council (MOGEC), Federation of Malaysian Manufacturers (FMM) and others with free-of-annual subscriptions.

(3.10) Polymer Committee [Compiled by the Chairman: Assoc. Prof. Dr. Melissa Chan Chin Han (F4118)]

- 1-Day Seminar on Dynamic Flow Methods for Characterizing Zeolites, Activated Carbons and Catalysts were organized on 18th Jul 2017 at ITS Shah Alam. President of IMM officiated the event.

(3.11) Vibration Committee [Compiled by the Chairman: Datuk Dr. Ir. Karim Abdullah (HF7442)]

Vibration Committee actively organized the following events:-

- 2nd May 2017: ½-Day IMM Career Talk at International College of Advanced Technologies (ICATS), Kuching, Sarawak
- 4th May 2017: Facility Integrity and Maintenance Conference at Goldenbay Hotel, Bintulu, Sarawak.
- 18th July 2017: Facility Integrity and Maintenance Conference at Awana Kijal Resort, Kemaman, Terengganu
- 22nd May 2017: Visit to Chinese Mechanical Engineering Society (CMES) and China Center for NDT Certification.
- 24th May 2017: Visit to South West Jiao Tung University (SWJT) and National Rail Traction Research Centre.

- 30th September 2017: Vibration Friendly Golf Event at Kota Seriemas Golf and Country Club, Nilai.
- 9th - 13th October 2017: Vibration Practitioner Level II Training for 16 Experienced Engineers in Condition Based Monitoring (CBM) from PETRONAS Group Technical Solution (GTS).
- 15th November 2017: Vibration Practitioner Level IV (Train-the-Trainers) conducted by Dr. Rahizar Ramli and Tuan Mokhtar Mohd Tahir.
- 16th November 2017: International Vibration Technology Conference at Chorus Hotel, Kuala Lumpur; MoU signing ceremony between IMM and Qingdao Research Institute, Southwest Jiaotong University and Launching of Asia-Pacific Vibration Federation by two founders, IMM and Chinese Mechanical Engineering Society (CMES).

(3.12) Website Committee [Compiled by the Chairman: Dr. Yong Soon Kong (O-07092)]

- Website Committee has been working on updating information in the IMM's official website since July 2016, and has so far completed 3 phases:
 - (i) Phase 1 (*i.e.* IMM Council & working committees and Coating Fingerprinting),
 - (ii) Phase 2 (*i.e.* membership list, IMM courses and events), and
 - (iii) Phase 3 (*i.e.* Materials Mind)
- Apart from maintaining IMM website, Website Committee has assisted the new secretariat in updating IMM information in Google search engine and Google Map.
- The Website Committee is still working with the new secretariat on various pending issues that include maintenance of the membership list, online payment system, and migration of IMM website to mobile-friendly platform.
- Website Committee has also help contributed to income generation through advertisement in IMM and Materials Mind portals.
- The Website Committee has created new social media accounts in November 2017 (*i.e.* Facebook, Gmail, WhatsApp), and is exploring these channels in simplifying IMM's operation and increase online visibility of the IMM brand.

(3.13) Welding Committee [Compiled by the Chairman: Haji Ghalib Tham (F00561)]

Summary of activities:-

- Asian Welder Certification – The committee completed document OP12. The IMM Welding Committee is ready to test and qualify arc welder. However, no test house interested in getting accreditation from Japan or Singapore. Four Welding Committee members are IMM certified welding inspectors. Two more Certified Welding Inspector courses will be conducted.
- Advised the preparation of Pipe and Structural Fitter Course for diploma and certificate level. The teaching materials were developed the committee.
- Provided advisory service to JOTAC Sdn Bhd on welding matters. *E.g.* advised the preparation and testing of WPS, 3G position, which was used for welder qualification and developed bend test facilities for JOTAC Sdn Bhd.
- To provide welder training and qualification to ~100 welders for PETRONAS Pengerang project. IMM Welder certificates will be issued to IMM welding graduates and re-certification will be attempted for certified welder.

- MM Welding conducted the Associate Welding Engineer (AWE) course, and recertification of AWE, Welding Engineer (WE) and Senior Welding Engineer (SWE) in collaboration with Japan Welding Engineering Society (JWES).
- Advised Air Foil Sdn Bhd on the repair of titanium turbine components.
- Designed and developed the course module for IBS house production; planning to register the design of affordable, low cost, DIY, quick installation single and double storey houses - an application of robotic welding in housing construction.

(3.14) Bintulu Chapter [Compiled by the Chairman: Raymond Phen (O5552)]

- Bintulu Chapter had successfully organized 1-Day Facility Integrity & Maintenance Conference on 4th May 2017 at Golden Bay Hotel, Bintulu which was initiated by Task Force on Upskilling Sarawak Engineers & Technicians and was supported by Institution of Engineers, Malaysia (Bintulu Branch) with a record of 140 participants. This conference was sponsored by Serba Dinamik Group Bhd. This 1-day conference aimed to bring together industry players (*e.g.* Bintulu plant & facility operators as well as service providers) to share their experiences and knowledge in maintaining their assets & facilities; challenges & problems faced; lessons learnt as well as potential solutions to the LOPC problems.
- On 31st October 2017, Bintulu Chapter organized 1-Day IMM Conference on Prevention of Loss of Primary Containment (LOPC) at Parkcity Everly Hotel, Bintulu Bintulu, which was initiated by Task Force on Upskilling Sarawak Engineers & Technicians (USET) and was supported by Institution of Engineers, Malaysia (Bintulu section) with a record of 125 participants. This conference was sponsored by Serba Dinamik Group Bhd. This conference had achieved some common ground on how to tackle LOPC issues and how to prevent future LOPC occurrences. Technical presentations were followed by a high-level and interactive panel discussion on reviewing LOPC situations and discussing the measures for future prevention amongst the stakeholders.

(3.15) Miri Chapter [Compiled by the Chairman: Ir. Dr. Edwin Jong Nyon Tchan (F490)]

Activities organized in 2017 were:

- 20th – 21st April 2017: International Conference of Materials Technology and Energy (ICMTE2017):
Miri Chapter jointly organized ICMTE2017 with Institution of Engineers, Malaysia (IEM) (Miri Branch) at Curtin University Sarawak, Miri with roughly 100 registered delegates (scholars, researchers, industrial professionals and practitioners in the fields of Materials and Corrosion Engineering, Welding Technology, Green Technology, Health and Safety, and Energy) with varying international backgrounds from Canada, India, China, Indonesia, Singapore, Australia, Germany and Malaysia. This conference provided an effective platform for international networking and exchanging technical ideas, knowledge and information on developments and innovations in the fields of materials engineering, green technology and energy, and particularly eco-friendly and long-term sustainable solutions in structures, materials and manufacturing, and the environment, energy and resources. ICMTE2017 also served to create linkages and cooperation between academia and industry, and innovative solutions for the materials technology and energy industries from all sectors. In developing countries such as Malaysia, the materials technology and energy sectors play an important role in national development, and the dissemination of cutting-edge technology and research

is important towards creating national development and improvements. In addition, a one-day trip to Niah National Park, offering jungle walk, Iban longhouse tour, and cave experiences was arranged.

- 16th June 2017: Annual Buka Puasa Gathering Dinner
Annual BUKA PUASA GATHERING DINNER was organized, where 11 committee members together with their family members joined the dinner at Imperial Palace Hotel, Miri.
- 12th August 2017: ICMTE2017 Appreciation Dinner
23 working committee members and 9 conference helpers from both IMM Miri Chapter and IEM (Miri Branch) attended ICMTE2017 Appreciation Dinner at Grand Palace Hotel.

(3.16) Southern Chapter [Compiled by the Chairman: Prof. Dr. Esah Hamzah (F0011)]

IMM Southern Chapter organised several activities in the year 2017. Among notable ones were:-

- UTM-Materials Lecture Competition (MLC2017) which was held on the 19th March 2017 at UTM Johor Bahru campus. Mr Mohd Haziq Dzulkifli, a PhD student from the Faculty of Mechanical Engineering won the first prize and represented UTM at the National MLC 2017 Semi-Final and Final which was held on 18th April 2017 and 16th May 2017, respectively at Asia Pacific University (APU), Bukit Jalil. Mohd Haziq won second place in MLC2017 Final.
- Co-organised with IMM and UTM [in collaboration with the Institution of Engineers Malaysia (IEM) (Southern Branch)] for the first One-Day Symposium on *Materials Processing, Inspection and Testing* (MPIT2017) which was held on the 24th August 2017 at Puteri Pan Pacific Hotel, Johor Bahru. The main objective of the symposium was to gather the academia and industrial players to share the current technology development and discuss any potential solution *via* panel discussion and dialogue. The event brought together a total of 113 participants who came from Malaysia and Singapore where 48 were from industries, and 49 from the academia. There were 11 invited speakers from the academia and industries in Malaysia and Singapore as well as 5 exhibitors from the industries.
- Faculty of Mechanical Engineering UTM and IMM also co-organized another successful event, which was the 4th Workshop on Sample Preparation and Microstructural Analysis 2017 on the 27th – 28th September 2017 at UTM Kuala Lumpur campus. The Workshop was well-participated by participants from local industries and universities. The main objective of the workshop was to give a theoretical knowledge and hands on experience on sample preparation for microstructural analysis using optical technique. The technical lecture and practical class was given by Mr Henry Heng from Reveal Technology Enterprise. The workshop also included a visit to Materials Science Laboratory in Malaysia-Japan Institute of Technology (MJIT) in UTM Kuala Lumpur. The participants were shown a quick demo on materials analysis using many state-of-the-art materials characterization equipment such as SEM, EDS, TEM, FIB, XRD and others.

(IV) SUMMARY AND MOVING FORWARD

2017 was an eventful year for IMM. IMM aims to bring greater awareness of Materials Science & Engineering to all sectors of industry and academia and encourages everyone to join and share their knowledge, experience and expertise for the benefit of the nation.

The IMM Council thank all members of the Working Committees, Regional Chapters, and staffs of the IMM Secretariat and staffs at the office of Materials Technology Education Sdn Bhd

(MTE) in Puchong, Selangor for their continuing efforts to promote and fulfill the objectives of the IMM.

On behalf of the Council

Assoc. Prof. Dr. Melissa Chan Chin Han
Honorary Secretary

Date: 15th Jan 2018

APPENDIX 1

THE ACTIVITIES CARRIED OUT BY MATERIALS TECHNOLOGY EDUCATION SDN BHD (MTE)

No	DATE	ACTIVITY
1	16 Jan	Protective Coating Technician Assessment at Temasek Coatings, Pasir Gudang
2	19 Jan	Protective Coating Technician Assessment at MAR Coating, PasirGudang
3		Protective Coatings Technician Assessment at Trisolution, Miri
4	16 Feb	Coating Inspection Certification Scheme Level 2 (CI L2) Training at MTE
5	20 – 23 Feb	Coating Inspection Certification Scheme Level 1 (CI L1) Training at MTE
6	20 – 24 Feb	Protective Coatings Technician Training & Assessment at Sabah Skills & Technology Centre
7	11 Mar	Protective Coatings Technician Assessment at PS PERUVISION, Shah Alam
8	13 – 20 Mar	Welding Engineer Course AWE/WE/SWE
9	20 – 23 Mar	Coating Inspection Certification Scheme Level 1 (CI L1) Training at MTE
10	27 Mar – 3 April	Certified Welding Inspector Course
11	17 Jun	Protective Coating Technician Assessment at Tri Solutions Training & Consultancy, Miri
12	12-19 Jul	Welding Inspector at BHIC MTA BNS TLDM Lumut
13	29 Jul	Protective Coating Technician Assessment at Tri Solutions Training & Consultancy, Miri
14	29 Jul	Protective Coating Technician Assessment at Punj Llyod RAPID Pengerang, Johor
15	1-9 Aug	IMM-JWES 12 th Associate Welding Engineer at Hotel Sfera, Seri Manjung, Perak
16	14 Aug	Protective Coating Technician Assessment at Tri Solutions Training and Consultancy Sdn Bhd, Miri
17	16 Aug	Protective Coating Technician Assessment at UBF Maintenance Sdn Bhd Kemaman, Terengganu
18	17 Aug	Protective Coating Technician Assessment at MAR COATING Sdn Bhd, Pasir Gudang, Johor
19	25-26 Aug	Coating Inspector Level 2 at Sabah Skills & Technology Centre
20	26 Aug	Coating Inspector Level 1 at NuHotel, Bintulu
21	28-29 Aug	Coating Inspector Level 2 at MTE Training room
22	5 Sept	Coating Inspector Level 2 at Meritz Hotel, Miri
23	7 Sept	Protective Coating Technician Assessment at MOCA, Kolej Komuniti Bandar Penawar, Johor

No	DATE	ACTIVITY
24	11-14 Sept	Coating Inspector Level 1 at Hotel Sfera, Seri Manjung, Perak
25	14 Sept	Protective Coating Technician Assessment at Seacademy, Miri, Sarawak
26	21 Sept	Protective Coating Technician Assessment at RM Leopad, Sitiawan, Perak
27	25-28 Sept	Cathodic Protection Engineer at KL
28	25-29 Sept	Protective Coating Technician Training & Assessment at Kumus Sdn Bhd, Bintulu, Sarawak
29	25 Sept – 6 Oct	Protective Coating Technician Training & Assessment at Kolej Komuniti Bandar Penawar, Johor
30	30 Sept	Protective Coating Technician at TBA location
31	2-6 Oct	Protective Coating Technician Training & Assessment at Sealink Shipyard Sdn. Bhd., Miri
32	3 Oct	Coating Inspector Level 1 at Miri
33	5-6 Oct	Protective Coating Technician Training & Assessment in Johor
34	12 Oct	Protective Coating Technician Assessment at Seacademy Sdn Bhd, Miri, Sarawak
35	9-12 Oct	Coating Inspector Level 1 at Meritz Hotel, Miri
36	9-12 Oct	Cathodic Protection Engineer at MTE
37	9-13 Oct	Protective Coating Technician Training & Assessment at TBA location
38	9-13 Oct	Vibration Practitioner Level 2 at Menara Dayabumi
39	13 Oct	Protective Coating Technician Assessment at Institute Kemahiran Malaysia, Bintulu, Sarawak
40	13 Oct	Cathodic Protection Engineer at MTE, Puchong
41	17 Oct	Protective Coating Technician Assessment at Mar Coating Sdn Bhd, Pasir Gudang
42	30-31 Oct	Metallurgical Failure Investigation at MTE
43	1 Nov	Vibration Practitioner Level 2 at Serba Dinamik
44	10 Nov	Protective Coating Technician Assessment at PS Peruvision Sdn. Bhd., Shah Alam
45	15 Nov	Vibration Practitioner Level IV (Train-the-Trainers)
46	15-18 Nov	Coating Inspector Level 1 at Kemena Hotel, Bintulu
47	17 Nov	Protective Coating Technician Assessment at Seacademy, Miri, Sarawak
48	17-18 Nov	Coating Inspector Level 2 at Kemena Hotel, Bintulu
49	20-23 Nov	Coating Inspector Level 1 at MTE
50	20-23 Nov	Cathodic Protective Technician Training & Assessment at MTE
51	27-28 Nov	Materials Selection and Corrosion at MTE
52	4-5 Dec	Coating Inspector Level 2 at MTE
53	11-12 Dec	Coating Inspector Level 2 at MTE