

# UiTM-IMM STUDENT CHAPTER

## COVER STORY

Prepared by: Siti Azizah Hayati binti Mustapha, President of UiTM-IMM Student Chapter



Edited by: Dr. Amirah Amalina Ahmad Tarmizi, Advisor of UiTM-IMM Student Chapter



On 13<sup>th</sup> September 2018, Universiti Teknologi MARA (UiTM)-Institute of Materials, Malaysia (IMM) Student Chapter was established. Through UiTM-IMM Student Chapter, UiTM and IMM shows continuous effort in organizing activities or programs related to joint conferences, training courses, seminars and activities as well putting a development of academic materials and other information for the benefit of students and also the community at large. This association allows the members to carry out and take part in activities such as conferences, training courses, seminars, and other related activities.

The UiTM-IMM Student Chapter primarily initiated by the Faculty of Applied Sciences at UiTM Shah Alam Campus. During the early establishment of this association, UiTM-IMM Student Chapter has approximately 70 members which are from Faculty of Applied Sciences and College of Engineering, UiTM Shah Alam Campus. Now the membership has expanded to almost 100 members.

Attending the conferences, the students were exposed with the latest issue and technology applied in the industry.

In 2019, the UiTM-IMM Student Chapter started the year by organizing a site visit to Cenviro Waste Management at Port Dickson. In this visit, the student gained knowledge on the waste management process in Malaysia. This visit provides both theoretically and practical knowledge on the waste management process. After six months of the UiTM-IMM was established, the UiTM-IMM Student Chapter was given the opportunity to organize the first UiTM Materials Lecture Competition with collaboration from IMM and School of Mechanical Engineering, UiTM Shah Alam. This event has become an annual event organized by UiTM-IMM Student Chapter.

Unfortunately, when the Covid-19 pandemic hits the world, all physical activities were held virtually. The first virtual event attended by the UiTM-IMM Student



Figure 1: IMM Week Opening remarks by IMM President, Dato' Dr. Ir. Ts. Mohd. Abdul Karim Abdullah (left) and virtual talk by Dr. Rahizar Ramli on vibration topic (right).

The first event organized by the UiTM-IMM Student Chapter was the Corrosion Forum which was held on the 13<sup>th</sup> of September 2018. Two invited speakers; Mr. Kang Kim Ang, the Managing Director of Control Group Companies and Mr. Mark Hew, Executive Director of Universal Corrosion Engineering (M) Sdn Bhd were pleasant to discuss on the topic "Industrial Corrosion and Coating Development". Both speakers shared their knowledge and experience on the current technology issues of corrosion and coating.

The UiTM-IMM Student Chapter was invited by IMM to attend the "International Applied Vibration Conference (IAVIC) 2018" which was held at the Royale Chulan Hotel, Kuala Lumpur. Besides that, UiTM-IMM Student Chapter has participated in several other IMM conferences such as Coating Fingerprinting Forums, and Polymer and Corrosions Conference. By

Chapter was the IMM week which was organized by IMM. This event was initiated by IMM President, Dato' Dr. Ir. Ts. Mohd. Abdul Karim Abdullah. IMM week is a five-day virtual conference starting from 15<sup>th</sup> March 2021 until 19<sup>th</sup> March 2021. The event was divided into few areas related to the materials such as corrosion, polymer, vibration, and welding. At the ends of the IMM week the Annual General Meeting of IMM was held. Throughout the IMM week, panels and representative from various industry background were invited to join the virtual booth and the professionals from related industries were invited as speakers. During this event, the students were exposed to the knowledge on the selected topic discussed by the professionals from the industry. This event helps the students to know more about the materials issues and exposed the students with the challenges in the industry.

Next, the UiTM-IMM Student Chapter also conducted UiTM-IMM Tech Talk which was held virtually on the 17<sup>th</sup> April 2021. The title discussed in this talk was "The Future of Materials Science and Technology: Polymer and Corrosion". Two speakers from IMM were invited to give the talk; Mr. Nik Khairil Azman covered the topic of "Roadmap Career Growth in Digitalization" and Mr. Kang Kim Ang highlighted the topic on "Materials Engineering and Corrosion Protection". The talk was attended by more than 50 students from Faculty of Applied Sciences, UiTM Shah Alam. The UiTM-IMM Student Chapter committee received a lot of positive feedback from the students, lecturers, and the speakers. The objective of this talk is to expose the

real life of a materials science graduate and career pathway they can pursue once they graduated.

Overall, over the past three years, the UiTM-IMM Student Chapter had successfully conducted many events that were beneficial to the students. The output was very insightful for the students and give good exposure for UiTM students. We would like to thank IMM for the invitation and collaboration for the past three years. We hope that in future more UiTM students are keen to join as the UiTM-IMM Student Chapter as this society is a good exposure for the students to create their networking with the industries for their profession development.

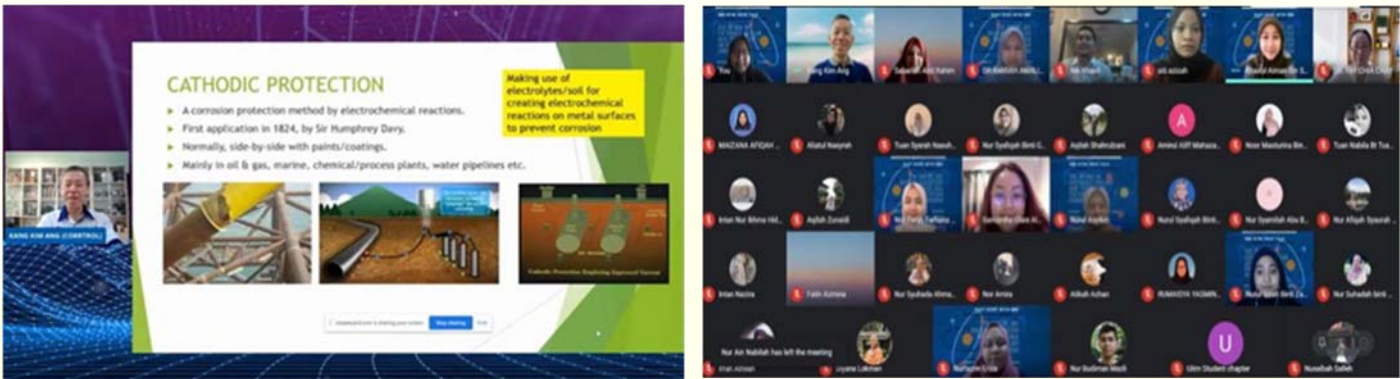


Figure 2: Talk by Mr. Kang Kim Ang on Materials Engineering and Corrosion Protection (left) and participants for the UiTM-IMM Tech-Talk (right).

## Registration of IMM Certified Trainers and Assessors

Starting from 1<sup>st</sup> January 2021 until 30<sup>th</sup> June 2022, IMM requires all existing trainers and assessors to register as IMM certified trainers and assessors for related IMM certification schemes with payable fees:

Registration fee = RM100

IMM membership fee = According to membership grade (Applicant shall be required to have a 5-year IMM membership from the date of registration)

Entrance/processing fee for membership = Not applicable for existing IMM members

Starting from 1<sup>st</sup> July 2022, the existing trainers and assessors who were not registered as IMM certified trainers and assessors (prior to 1<sup>st</sup> July 2021), will have to be certified through the IMM Certified Trainer certification program in order to be officially registered as IMM certified trainers and assessors.

Discounted assessment fee will be given to the candidates until 31<sup>st</sup> December 2022, as follows:

50% assessment fee = RM435 (Normal Price: RM870)

IMM membership fee = According to membership grade (Applicant shall be required to have a 5-year IMM membership from the date of registration)

Entrance/processing fee for membership = Not applicable for existing IMM members

Full assessment fee of RM870 is applicable from 1<sup>st</sup> January 2023 onwards.

For more information, please contact IMM Secretariat via phone call at +60376611591, via WhatsApp at +60189113480 or via email at [secretariat@iommm.org.my](mailto:secretariat@iommm.org.my).

Download the registration form from the link or scan the QR code here,

<https://www.iommm.org.my/wp-content/uploads/2021/05/IMM-CF-314-Certified-Trainer-Registration-Form-010221.pdf>





A quarterly magazine PP18691/01/2018(034114)/ISSN2289-9030

# MATERIALS IND

Issue 32

October 2021

[www.iomm.org.my](http://www.iomm.org.my)

Institute of Materials, Malaysia



## HIGHLIGHTS

IMM Student Chapter

Addressing the Issues of Significant Figures for Degree of Similarity and Specific FTIR Fingerprint Regions for Paints: A Pilot Study

Predicting the Whiteness Index of Cotton Fabric with a Least Squares Model



# TABLE OF CONTENTS

## COVER STORY

IMM Student Chapter	04
UiTM-IMM Student Chapter	06
UTAR-IMM Student Chapter	08
Information Note of IMM Protective Coating Technician Level 1/ Level 2 Certification Program	10
IMM Training and Certification Program Overview	14
IMM Authorized Training Body (ATB)/ Authorized Testing Centre (ATC)/ Authorized Training Partner (ATP) for IMM Courses and Certification	18
Information Note of IMM Coating Inspector Level 1/ Level 2 Competency Certification Scheme	20

## TECHNICAL ARTICLES

Addressing the Issues of Significant Figures for Degree of Similarity and Specific FTIR Fingerprint Regions for Paints: A Pilot Study	24
Predicting the Whiteness Index of Cotton Fabric with a Least Squares Model	26

## STUDENT EDITORIAL

Hydrothermal Growth of Niobium Oxide Microrods in Ammonium Fluoride for Electrochromic	28
--	----

IMM Protective Coating Technician (Blaster & Painter) Competency Certification Scheme	32
New Upgrade Members IMM Fellow and Professional	34
<b>EVENT ARTICLES</b>	
UTHM-IMM Materials Lecture Competition 2021	36
Virtual Industrial Talk 2021: Material Testing (in collaboration with CTRM Testing Laboratory)	37
Sarawak Shell Berhad Participation in ICPER Seminar by Universiti Teknologi Petronas (UTP)	38
Materials Lecture Competition 2021 (MLC 2021)	40
1-Day Rheology Workshop on Polymers	45
IMM Profiles	50
IMM Council Members and Committees	52
IMM 6 <sup>th</sup> Council Meeting	57

## OCTOBER 2021 Issue 32

### EDITORIAL BOARD MEMBERS

#### Chief Editor

Assoc. Prof. Ts. Dr. Tay Chia Chay  
(Universiti Teknologi MARA)

#### Deputy Chief Editor

Assoc. Prof. Dr. Lim Teck Hock  
(Tunku Abdul Rahman University College)

#### Managing Editor

Ms. Nurul Fatahah Asyqin Zainal  
(Universiti Teknologi MARA)  
Ts. Dr. Nur Aimi Jani  
(Universiti Teknologi MARA)

#### Committee Members

Prof. Ts. ChM. Dr. Melissa Chan Chin Han  
(Universiti Teknologi MARA)  
Dr. Amirah Amalina Ahmad Tarmizi  
(Universiti Teknologi MARA)  
Ir. Mohd Raziff Embi  
(Malakoff Power Bhd)  
Ts. Brian Lim Siong Chung  
(Geopolitan Sdn Bhd)  
Ms. Hairunnisa Ramli  
(Universiti Teknologi MARA)



**INSTITUTE OF MATERIALS, MALAYSIA**  
Suite 515, Level 5, Block A, Kelana Centre Point (Lobby B), No. 3 Jalan SS 7/19, Kelana Jaya, 47301 Petaling Jaya, Selangor.  
Tel: +603-76611591

✉ secretariat@iommm.org.my  
www.iommm.org.my  
☎ +60 18-911 3480  
f Institute of Materials, Malaysia




**EDITORIAL BOARD MEMBERS**

- Chief Editor**  
Assoc. Prof. Ts. Dr. Tay Chia Chay
- Deputy Chief Editor**  
Assoc. Prof. Dr. Lim Teck Hock
- Managing Editor I**  
Ms. Nurul Fatahah Asyqin Zainal
- Managing Editor II**  
Dr. Nur Aimi Jani
- Committee Member**  
Dr. Amirah Amalina Ahmad Tarmizi
- Committee Member**  
Ir. Mohd Raziff Embi
- Committee Member**  
Ts. Brian Lim Siong Chung
- Committee Member**  
Ms. Hairunnisa Ramli
- Committee Member**  
Prof. Ts. ChM. Dr. Melissa Chan Chin

**Disclaimer:** The articles written by various authors and news from external sources are published in good faith for the benefit of our readers and do not necessarily reflect the views of IMM. Further, we give no assurance or warranty that the published information is current or accurate and take no responsibility for any losses or consequences arising from its transmittal through the bulletin.