



**INSTITUT KIMIA MALAYSIA**

**ANNUAL REPORT  
2022/2023**

# INSTITUT KIMIA MALAYSIA

## ANNUAL REPORT 2022/2023

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# INSTITUT KIMIA MALAYSIA

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1. This report covers the period from April 2022 to March 2023.

### I: HIGHLIGHTS

2. The IKM Professional Centre is located a floor below the IKM Secretariat Office at Taman Tun Dr Ismail, Kuala Lumpur and has been operational since September 2003. In 2022, a total of 25 courses on laboratory quality management and laboratory safety as well as analytical techniques and instrumentation were successfully conducted. Mostly, the courses conducted by IKM Professional Centre are HRDCorp claimable.
3. Four issues of the Berita IKM – Chemistry in Malaysia were published in 2022. Four issues of the Malaysian Journal of Chemistry (MJChem) were also published on-line. A dedicated website for MJChem (<https://ikm.org.my/publications/malaysian-journal-of-chemistry/>) has been set up. The Malaysian Journal of Chemistry (MJChem) is indexed in Scopus.
4. The Annual Malam Kimia & Presentation of IKM Awards 2022 was held on Friday, 2 December 2022.
5. The final draft of the Program Standards for Chemistry degree has been submitted to the Malaysian Qualifications Agency (MQA). The program standard is drafted based on the feedback obtained from the stakeholders, MQA and Ministry of Education (MOE).
6. The Kuiz Kimia Kebangsaan Malaysia 2022 (K<sub>3</sub>M 2022) was held on 28 October 2022 at participating schools nationwide.
7. The 14<sup>th</sup> Refresher Course for those who intend to sit for the IKM LMIC Examination was held from 16 July 2022 to 4 September 2022 virtually using Zoom platform. The course is based on the syllabus of the IKM Part I Examination and is intended for those sitting for the IKM Licentiate Membership Examination. A total of 39 participants attended this course.
8. A total of 49 candidates registered for IKM LMIC Examination 2022 of which 29 candidates passed the examination. 15 candidates failed and 5 withdrew from the examination. The 2022 LMIC Examination was held from 10-12 September 2022 at Universiti Malaya (KL).
9. Membership of the Institute increased from 4947 to 5474 for the year 2022.
10. IKM continues to interact and participate in the activities of several national, international and professional organizations such as COSTAM, BIM, MSA, KISM, RSC and RSC Malaysia, ACS and ACS Malaysia Chapter, FACS, FAPS, OPCW and IUPAC.

### II: COUNCIL

11. The Council consists of the Registrar who is the Director-General of Chemistry and 15 elected Council Members, who serve a term of 3 years from the year of his/her last election to the Council. The Chemists Act also provides for members who can contribute to the development of the profession and to IKM to be co-opted into the Council. The 2022/2023 Council of the Institute is as follows:

#### **IKM Council 2022/2023**

*Registrar* ChM Halimah binti Abdul Rahim (effective 25 January 2023)

#### **Elected Council Members**

<i>President</i>	Datuk ChM Dr Soon Ting Kueh
<i>Vice-President</i>	Datin ChM Dr Zuriati Zakaria
<i>Hon. Secretary</i>	ChM Chang Hon Fong
<i>Hon. Treasurer</i>	ChM Dr Malarvili Ramalingam
<i>Hon. Asst. Secretary</i>	Assoc. Prof. ChM Dr Juan Joon Ching

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<i>Hon. Asst Treasurer</i>	Prof ChM Ts Dr Chan Chin Han ( <i>Deceased</i> )
<i>Council Members</i>	Dato' ChM Dr Hj Mas Rosemal Hakim Mas Haris DCP(R) Assoc. Prof. Dato' ChM Dr Yew Chong Hooi Datin ChM Maimonah Binti Sulaiman Prof. ChM Dr Mansor Ahmad Prof. ChM Dr Yang Farina Abdul Aziz ChM Marhayani binti Md. Saad ChM Li Hui Ling ChM Ts Damien Khoo Yiyuan Asst. Prof ChM Dr Yvonne Choo Shuen Lann

### Co-opted Council Members

Hon. Col. (CD) Snr. Assoc. Prof. ChM Dr. Kathiresan a/l Sathasivam	
Academician ChM Dr Ho Chee Cheong	
ChM Dr Nurul Huda binti Abd Karim	
ChM Dr Chin Teen Teen	
ChM Dr Lee Siang Yin	
ChM Steven Tea Hing San	
Dato' ChM Dr Hj Mas Rosemal Hakim Mas Haris	<i>Chairman, IKM Northern Branch</i>
ChM Yap Fei Ching	<i>Chairman, IKM Southern Branch</i>
ChM Dr John Chan Sung Tong	<i>Chairman, IKM Sarawak Branch</i>
ChM Dr Jenny Lee Nyuk Len	<i>Chairman, IKM Sabah &amp; F.T. Labuan Branch</i>
ChM Khairul Hadi bin Haji Abd Raof	<i>Chairman, IKM Perak Branch</i>
ChM Teo Chook Kiong	<i>Chairman, IKM Terengganu Branch</i>
ChM Dr Awis Sukarni bin Mohamad Sabere	<i>Chairman, IKM Pahang Branch</i>

### 12. The Council held 7 meetings:

321 <sup>st</sup> Meeting	26 March 2022
322 <sup>nd</sup> Meeting	28 May 2022
323 <sup>rd</sup> Meeting	8 July 2022
324 <sup>th</sup> Meeting	23 July 2022
325 <sup>th</sup> Meeting	1 October 2022
326 <sup>th</sup> Meeting	24 November 2022
327 <sup>th</sup> Meeting	18 February 2023

### 13. The following Council members who will retire on rotation in accordance with the Rules but are eligible to seek re-election are:

Datuk ChM Dr Soon Ting Kueh	Elected in 2020
Assoc Prof ChM Dr Juan Joon Ching	Elected in 2020
ChM Chang Hon Fong	Elected in 2020
Dato' ChM Dr Hj Mas Rosemal Hakim bin Mas Haris	Elected in 2020
Prof ChM Dr Mansor Ahmad	Elected in 2020
Asst. Prof ChM Dr Yvonne Choo Shuen Lann	Appointed under Section 9(4) First Schedule

### 14. The attendance at Council Meetings are as follows:

<u>Members</u>	No. 321	No. 322	No. 323	No. 324	No. 325	No. 326	No. 327
Datuk ChM Dr Soon Ting Kueh	√	√	√	√	√	√	√
Datin ChM Dr Zuriati Zakaria	√	√	√	√	√	√	√
Dato' ChM Hj Mohamed Zaini Abdul Rahman	√	A	√	A	√	-	-
ChM Halimah binti Abdul Rahim	√	A	√	A	A	√	A
ChM Chang Hon Fong	√	√	√	√	√	√	√

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ChM Dr Malarvili Ramalingam	√	√	√	A	√	√	√
Assoc Prof ChM Dr Juan Joon Ching	√	√	A	√	√	√	√
Prof ChM Ts Dr Chan Chin Han	√	√	A	√	√	A	-
DCP(R) Assoc. Prof. Dato' ChM Dr Yew Chong Hooi	√	√	√	√	√	√	√
Datin ChM Maimonah Sulaiman	√	√	A	√	√	√	A
Dato' ChM Dr Hj Mas Rosemal Hakim Mas Haris	√	√	A	√	A	√	√
Prof ChM Dr Mansor Ahmad	√	√	A	√	√	√	√
Prof ChM Dr Yang Farina Abdul Aziz	√	√	√	√	√	√	√
ChM Marhayani binti Md. Saad	√	√	√	√	√	√	√
ChM Li Hui Ling	√	A	√	A	√	√	√
ChM Ts Damien Khoo Yiyuan	√	√	A	A	√	√	√
Asst. Prof ChM Dr Yvonne Choo Shuen Lann	-	√	√	√	√	√	√
Hon. Col. (CD) Snr. Assoc. Prof. ChM Dr. Kathiresan a/l Sathasivam	-	√	√	√	A	√	√
Academician ChM Dr Ho Chee Cheong	-	√	√	√	√	√	√
ChM Dr Nurul Huda binti Abd Karim	-	√	√	√	√	√	A
ChM Dr Chin Teen Teen	-	√	A	A	A	√	A
ChM Dr Lee Siang Yin	-	-	√	√	√	√	√
ChM Steven Tea Hing San	-	-	√	√	√	√	√
ChM Yap Fei Ching	A	√	√	√	√	√	A
ChM Dr John Chan Sung Tong	A	A	A	√	√	A	√
ChM Dr Jenny Lee Nyuk Len	√	√	A	√	√	√	√
ChM Khairul Hadi Bin Haji Abd Raof	√	√	A	A	A	√	√
ChM Teo Chook Kiong	√	√	√	√	√	√	√
ChM Dr Awis Sukarni bin Mohmad Sabere	√	√	A	√	√	√	√

A – Absent with apologies

15. The following committees were established by the Council to carry out its functions:

<b>ADMINISTRATION &amp; FINANCE</b>	
<i>Administration &amp; Finance Committee</i>	ChM Chang Hon Fong ( <i>Chairperson</i> ) & ChM Dr Malarvili Ramalingam ( <i>Co-Chairperson</i> )
<i>Malam Kimia 2022 Organizing Committee</i>	Assoc. Prof. ChM Dr Juan Joon Ching
<i>ICPAC Kota Kinabalu 2022 Organizing Committee</i>	Datuk ChM Dr Soon Ting Kueh
<i>Benevolent Fund Committee</i>	DCP(R) Assoc. Prof. Dato' ChM Dr Yew Chong Hooi
<b>PUBLICATIONS</b>	
<i>Berita IKM: Chemistry in Malaysia Editorial Board</i>	Datin ChM Dr Zuriati Zakaria
<i>Malaysian Journal of Chemistry Editorial Board</i>	Datin ChM Dr Zuriati Zakaria
<b>PROFESSIONAL AFFAIRS &amp; DEVELOPMENT</b>	
<i>Professional Affairs Committee</i>	Academician ChM Dr Ho Chee Cheong
<i>Membership Committee</i>	ChM Halimah binti Abdul Rahim Datuk ChM Dr Soon Ting Kueh
<i>Examination Board</i>	Datin ChM Dr Zuriati Zakaria
<i>IKM Professional Centre Development Committee</i>	ChM Chang Hon Fong
<i>Laboratory &amp; Quality Assurance Committee</i>	<i>Laboratory Excellence Award</i> ChM Li Hui Ling ( <i>Chairperson</i> ) Dato' ChM Dr Hj Mas Rosemal Hakim bin Mas Haris ( <i>Co-Chairperson</i> )
	<i>Chemical &amp; Occupational Safety &amp; Health</i>

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	ChM Halimah binti Abdul Rahim
<b>IKM HQ &amp; BRANCHES</b>	
<i>IKM HQ</i>	Datuk ChM Dr Soon Ting Kueh (soontk@ikm.org.my)
<i>IKM Northern Branch Committee</i>	Dato' ChM Dr Hj Mas Rosemal Hakim bin Mas Haris (rosemalharis@gmail.com)
<i>IKM Southern Branch Committee</i>	ChM Yap Fei Ching (rachelyap0609@gmail.com)
<i>IKM Sarawak Branch Committee</i>	ChM Dr. John Chan Sung Tong (johnchan@chemsain.com)
<i>IKM Sabah &amp; FT Labuan Branch Committee</i>	ChM Dr Jenny Lee Nyuk Len (jennylee1318@yahoo.com)
<i>IKM Perak Branch Committee</i>	ChM Khairul Hadi Bin Haji Abd Raof (hadi@kimia.gov.my)
<i>IKM Terengganu Branch Committee</i>	ChM Teo Chook Kiong (tchookkiong@petronas.com)
<i>IKM Pahang Branch Committee</i>	ChM Dr Awis Sukarni Bin Mohmad Sabere (awissabere@iium.edu.my)
<b>ACADEMIC &amp; INDUSTRIAL DIVISIONS / NETWORK</b>	
<i>Division of Inorganic &amp; Bioinorganic Chemistry (DIBC)</i>	Prof. ChM Dr Yang Farina Abdul Aziz, <i>Chairperson</i> (yfarina@gmail.com) ChM Dr Nurul Huda binti Abd Karim, <i>Co-Chairperson</i> (nurulhuda@ukm.edu.my)
<i>Division of Analytical Chemistry (DAC)</i>	ChM Dr Malarvili Ramalingam, <i>Chairperson</i> (malar@kimia.gov.my) ChM Dr Chin Teen Teen, <i>Co-Chairperson</i> (teenteen.chin@alsglobal.com)
<i>Division of Organic &amp; Biomolecular Chemistry (DOBC)</i>	Datin ChM Dr Zuriati Zakaria (zuriatiz@gmail.com)
<i>Division of Physical &amp; Theoretical Chemistry (DPTC)</i>	Prof. ChM Dr Mansor Ahmad (mansorahmad@gmail.com)
<i>Division of Polymers &amp; Materials Chemistry (DPMC)</i>	Prof. ChM Ts Dr Chan Chin Han (cchan_25@yahoo.com.sg)
<i>Division of Green &amp; Sustainable Chemistry (DGSC)</i>	Assoc. Prof. ChM Dr Juan Joon Ching (joon.c.juan@gmail.com)
<i>Division of Food Science and Nutrition (DFSN)</i>	Datin ChM Maimonah Sulaiman, <i>Chairperson</i> (maimonahsulaiman@gmail.com) ChM Li Hui Ling, <i>Co-Chairperson</i> (lhling@kimia.gov.my)
<i>Division of Forensic Chemistry (DFC)</i>	DCP(R) Assoc. Prof. Dato' ChM Dr Yew Chong Hooi, <i>Chairperson</i> (drych23@gmail.com) Datin ChM Maimonah Sulaiman, <i>Co-Chairperson</i> (maimonahsulaiman@gmail.com) ChM Halimah binti Abdul Rahim, <i>Co-Chairperson</i> (halimah@kimia.gov.my)
<i>Malaysian Young Chemists Network</i>	Assoc. Prof. ChM Dr Juan Joon Ching (joon.c.juan@gmail.com)
<b>COMMITTEES</b>	
<i>Committee on Chemistry Education &amp; Community (CCEC)</i>	Datuk ChM Dr Soon Ting Kueh (soontk@ikm.org.my)
<i>Committee on Chemistry &amp; Industry (CCI)</i>	ChM Marhayani binti Md. Saad, <i>Chairperson</i> (yanie@kimia.gov.my) ChM Ts Damien Khoo Yiyuan, <i>Co-Chair</i> (damienkhoo@gmail.com)

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<i>Committee on Chemistry Invention &amp; Innovation (CCII) / Kimia Invensi dan Inovasi Malaysia (KI2M)</i>	Dato' ChM Dr Hj Mas Rosemal Hakim bin Mas Haris, <i>Chairperson</i> (rosemalharis@gmail.com) Assoc. Prof. ChM Dr Juan Joon Ching, <i>Co-Chairperson</i> (joon.c.juan@gmail.com) ChM Marhayani binti Md. Saad, <i>Co-Chairperson</i> (yanie@kimia.gov.my)
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### INVESTIGATION COMMITTEE & DISCIPLINARY COMMITTEE

16. Members of the IKM Investigation Committee are:  
DCP(R) Assoc. Prof. Dato' ChM Dr Yew Chong Hooi (Chairman)  
Dato' ChM Dr Hj Mas Rosemal Hakim bin Mas Haris  
Assoc. Prof. ChM Dr Juan Joon Ching
17. The IKM Disciplinary Committee comprises the following:  
Dato' ChM Hj Mohamed Zaini Abdul Rahman (Chairman)  
Datuk ChM Dr Soon Ting Kueh  
Datin ChM Dr Zuriati Zakaria  
Prof. ChM Dr Yang Farina Abdul Aziz  
ChM Dr Malarvili Ramalingam
18. During the year under review, no disciplinary cases were reported.

### MEMBERSHIP

19. The IKM Membership Committee comprises the following members:  
ChM Halimah binti Abdul Rahim Chairperson  
Datuk ChM Dr Soon Ting Kueh Co-Chairperson  
Datin ChM Dr Zuriati Zakaria  
Assoc Prof ChM Dr Juan Joon Ching  
ChM Chang Hon Fong  
Prof ChM Dr Ho Chee Cheong  
Prof ChM Dr Tan Guan Huat  
Prof ChM Dr Norashikin bte Saim  
Assoc Prof ChM Dr Irmawati Ramli  
ChM Dr Chan Boon Lye
20. The committee held 5 meetings on 20 May 2022, 15 July 2022, 27 September 2022, 16 November 2022 and 8 February 2023 to consider applications for membership and upgrading. A summary of the membership changes in 2022 is given below.

#### New Members

Members	414
Licentiates	195

#### Upgraded

Members to Fellows	8
Licentiates to Members	63

#### Deregistered (for non-payment of annual retention fees):

Members	40
Licentiates	26

#### Deceased

Fellows	3
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Members	4
Licentiates	4

<u>Resigned</u> Members	4
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### MEMBERSHIP STATISTICS

21. The existing membership is as follows:

As at	1 January 2022	31 December 2022
Fellows	98	103
Members	3682	4101
Licentiates	1167	1270
Total	4947	5474

22. There was a net increase in membership of 527 for the year 2022. A full detail of the changes in the membership in 2022 are given in Appendix A.

### CONTROL OF LABORATORIES

23. Laboratories will be inspected by the inspectors appointed under the Chemists Act only if an official complaint is received as given in Section 27 (2) of the Chemists Act. No complaints were received for the year under review.

### MEMBERSHIP EXAMINATION

24. The IKM Examination Board for 2022/2023 comprised the following:

Datin ChM Dr Zuriati Zakaria (Chairperson)  
Prof ChM Dr Lee Yook Heng  
Hon. Col. (CD) Snr. Assoc. Prof. ChM Dr. Kathiresan a/l Sathasivam  
Assoc Prof ChM Dr Lo Kong Mun  
ChM Dr Malarvili Ramalingam  
ChM Dr Fatimah Salim

25. The Board held 1 meeting on 26 September 2022 to discuss matters related to the Examination.
26. The Refresher Course comprises 4 modules on Inorganic Chemistry, Organic Chemistry, Physical Chemistry and Analytical Chemistry with a total of 80 hours of lectures. The lectures are held on weekends (Saturdays and Sundays) and the course fee is RM4,000 per participant.

### IKM PROFESSIONAL CENTRE

27. The calendar of courses for 2022 was published at IKM website & Facebook.
28. A total of 25 trainings were conducted in 2022:

No	Online Courses in 2022	Number of Participants	
		IKM Member	Non-IKM Member
1	General QA/QC Procedures for Testing Laboratories Date: 12-13 January Trainer: ChM Pua Hiang	10	1
2	Calibration of Test and Measuring Instruments and Metrological Traceability Date: 26-27 January Trainer: Mr Chen Soo Fatt	4	4
3	Statistical Methods for Chemists Date: 14-15 February Trainer: Prof ChM Dr Sharon Teh Geok Bee	16	10
4	Understanding the Elements of MS ISO/IEC 17025:2017 Date: 16-17 February Trainer: ChM Chang Hon Fong	12	13



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5	Basic Laboratory Skills & Techniques Date: 21-22 February Trainer: Prof ChM Dr Sharon Teh Geok Bee	10	16
6	Procedures of Method Validation & Verification (MVV40) Date: 02-03 March Trainer: ChM Chang Hon Fong	13	14
7	Management of Chemicals & Chemical/Lab Wastes Date: 09-10 March Trainer: ChM Dr Malarvili Ramalingam	10	4
8	MS ISO/IEC 17025:2017 Management Systems Internal Auditing Date: 14-15 March Trainer: ChM Pua Hiang	19	5
9	Decision Rules and Conformity Assessment Meeting The MS ISO/IEC 17025:2017 Requirements Date: 11 April Trainer: ChM Chang Hon Fong	9	7
10	Understanding the Elements of MS ISO/IEC 17025:2017 (ONLINE IN HOUSE TRAINING - SYARIKAT SESCO BHD) Date: 20-21 April Trainer: ChM Chang Hon Fong	4	21
11	Root Cause Analysis and Corrective Actions on Unsatisfactory Proficiency Testing (PT) Performance Date: 17 May Trainer: ChM Chang Hon Fong	22	6
12	General QA/QC Procedures for Testing Laboratories Date: 18 - 19 May Trainer: ChM Pua Hiang	14	4
13	Measurement Uncertainty in Chemical Analysis Date: 25 - 26 May Trainer: ChM Chang Hon Fong	18	8
14	Statistical Methods for Chemists Date: 13-14 June Trainer: Prof ChM Dr Sharon Teh Geok Bee	14	9
15	Method Validation & Quantification of Measurement Uncertainty in Microbiological Testing Date: 15 - 16 June Trainer: Dr New Chia Yeung	2	22
16	Understanding the Elements of MS ISO/IEC 17025:2017 (ONLINE IN HOUSE TRAINING - ASEAN BINTULU FERTILIZER S/B) Date: 20-21 June Trainer: ChM Chang Hon Fong	1	8
17	Calibration of Test and Measuring Instruments and Metrological Traceability Date: 20-21 June Trainer: Mr Chen Soo Fatt	5	5
18	Understanding the Elements of MS ISO/IEC 17025:2017 (ONLINE IN HOUSE TRAINING - ASEAN BINTULU FERTILIZER S/B) Date: 04-05 July Trainer: ChM Chang Hon Fong	1	8
19	Basic Laboratory Skills & Techniques Date: 18-19 July Trainer: Prof ChM Dr Sharon Teh Geok Bee	2	22
20	MS ISO/IEC 17025:2017 Management Systems Internal Auditing Date: 02 - 03 Aug Trainer: ChM Pua Hiang	15	8
21	Understanding the Elements of MS ISO/IEC 17025:2017 Date: 15 - 16 Aug Trainer: ChM Chang Hon Fong	13	10
22	Procedures of Method Validation & Verification Date: 5 - 6 Sept Trainer: ChM Chang Hon Fong	7	7
23	Chemical Safety and Security Date: 7 - 8 Sept Trainer: Datin ChM Dr Zuriati Zakaria	1	7
24	Management of Chemicals & Chemical/Lab Wastes Date: 13 - 14 Sept Trainer: ChM Dr Malarvili Ramalingam	8	13
25	Measurement Uncertainty in Chemical Analysis Date: 3 - 4 Oct Trainer: ChM Chang Hon Fong	19	3
Total		249	235

### ADMINISTRATION & FINANCE

29. Members of the IKM Administration and Finance Committee are:

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ChM Chang Hon Fong (Chairperson)  
ChM Dr Malarvili Ramalingam (Co-Chair)  
Datuk ChM Dr Soon Ting Kueh  
Datin ChM Dr Zuriati Zakaria  
Assoc. Prof. ChM Dr Juan Joon Ching  
Prof. ChM Ts Dr Chan Chin Han

30. The committee held 5 meetings during this term - 27 May 2022, 15 July 2022, 10 September 2022, 17 November 2022 and 10 February 2023.

### **Wisma IKM at Taman Tun Dr Ismail, Kuala Lumpur**

31. Wisma IKM comprises 2 shoplots located at No. 127 and 129 Jalan Aminuddin Baki, Taman Tun Dr Ismail, Kuala Lumpur. The IKM Secretariat occupies the top floors of both buildings at No 127B and No 129B. The floor at No 129B consists of the Board Room and the President's room. The secretariat office is located at No 127B.
32. The 1<sup>st</sup> floor at No 127A is the IKM Professional Centre which is being used for conducting regular professional courses, workshops, seminars and talks. The 1<sup>st</sup> floor at No 129A is currently vacant.
33. The ground floor at No 129 is rented to Baba Ho Liao Enterprise which operates a restaurant. The tenancy agreement was renewed for one year effective from 1 September 2022 to 31 August 2023 at RM8,000 per month.
34. The ground floor at No 127 is rented to Rizqiez Resources which operates a restaurant. The tenancy agreement was renewed for one year effective from 15 September 2022 to 14 September 2023 at RM8,000 per month.

### **Shop-house at Taman SEA, Petaling Jaya**

35. IKM has a freehold property which is a four storey shop-house located at No. 35 Jalan SS 23/15, Taman SEA, 47400 Petaling Jaya. The property was purchased on 31 May 2010.
36. The purchase price of the property was RM2,550,000.00 and was financed from internal funds from IKM, shares from the IKM Branches as well as a fixed term loan of RM500,000 from Public Bank which has been fully repaid by end of October 2014.
37. The shareholders of the property at Taman SEA are as follows:
- |                              |     |
|------------------------------|-----|
| IKM General Fund             | 49% |
| IKM Education Fund           | 17% |
| IKM Benevolent Fund          | 13% |
| IKM Southern Branch          | 10% |
| IKM Sarawak Branch           | 5%  |
| IKM Northern Branch          | 2%  |
| IKM Perak Branch             | 1%  |
| IKM Terengganu Branch        | 2%  |
| IKM Sabah & FT Labuan Branch | 1%  |
38. Sustain Geotechnics Sdn Bhd rents the 3rd floor of the shop-house. Their tenancy was renewed for one year from 1 August 2022 to 31 July 2023 at RM2,700 per month with RM300 per month for maintenance of the lift.
39. Revelation Republic, a fitness centre, is renting both the ground and 1st floor of the shop-house at RM7,300 per month with an additional RM250 per month for lift maintenance charges. The tenancy was renewed from 16 March 2021 to 15 March 2023.

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### SECRETARIAT STAFF & OFFICE

40. The Secretariat Staff of the Institute comprises:

***IKM HQ Secretariat Office***

ChM Dr Aqeel Saravanan	Executive Director
Ms. Tan Lay Kuan	Head of Finance & Human Resource
Mrs. Norbahia binti Daud	Senior Executive Officer
Mrs. Siti Maziah binti Mohd Yunus	Executive Officer
Mrs. Aliah Nur Fatehah binti Mohamad Basir	Executive Officer
Mr. Mohd Noor Safiq bin Mohd Yusof	Accounts Executive
Ms. Nurul Idayu Suhana binti Harun	Executive Officer
Ms. Nurul Nabila binti Abdullah	Executive Officer
ChM Mohd Azizi Al-Hafiz bin Wirzal	Executive Officer

41. IKM members can contact the IKM HQ Secretariat at the following e-mail: [ikmhq@ikm.org.my](mailto:ikmhq@ikm.org.my).
42. The IKM website is [www.ikm.org.my](http://www.ikm.org.my) and IKM Facebook account is Institut Kimia Malaysia.
43. The telephone number for the IKM secretariat is 03-77283272 / 03-77283858 / 03-77269029 and the fax number is 03-77289909.

### BENEVOLENT FUND

44. The Committee and the Council recorded with deepest sympathies the demise of the following IKM members:

Chan Chin Han, Prof. Dr.	F/0115/4464/03/17
Ibrahim bin Baba, Prof Dr	F/0086/1237/79/09
Loke Kwong Hung, Dr	F/0012/0016/67
Kirat Singh	M/0157/0049/68
Md Sani Bin Ibrahim, Dr	M/1427/2592/95
Raziyun bin Abdul Razak	M/1846/4191/01
Sim Joong Hiong, Dr	M/2576/5246/08
Chan Kim Seng	L/0460/0889/77
Lim Suat Lean	L/1132/2737/96
Rahmat Syuhaili Abd Rashid	L/1339/4284/02
Zainal Bin Wakid	L/0858/2053/90

45. The Benevolent Fund made a contribution of RM2,000 each to the next-of-kin of the deceased members. Statement of the accounts of the Fund up to 31 December 2022 is included in the Annual Financial Statements of the Institute.

### EDUCATION FUND

46. In the year 2022, a total amount of RM6,600.00 under the Education Fund was awarded as IKM Merit Award to the children of IKM members.
47. A Gold Medal, 2 Outstanding Young Chemist Award Medals, 1 Tan Sri Ong Kee Hui Postgraduate Chemistry Medal, 1 IKM/RSC – Synthomer Award in Polymer Science Award Medals and 5 Graduate Chemistry Medals costing RM3,800.00 were awarded under the Education Fund to the recipients of the 2022 IKM Awards at the Institute's Malam Kimia. In addition to the medals and certificates, cash awards amounting to RM12,500.00 were also given to the awardees.

### PUBLICATIONS

***Berita IKM – Chemistry in Malaysia***

48. The Berita IKM – Chemistry in Malaysia Editorial Board comprised the following:

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Datin ChM Dr Zuriati Zakaria (Chairperson)  
Datuk ChM Dr Soon Ting Kueh  
Assoc Prof ChM Dr Juan Joon Ching  
Prof ChM Dr Yang Farina Abdul Aziz  
Prof ChM Ts Dr Chan Chin Han  
Prof ChM Dr Mansor Ahmad  
Dato' ChM Dr Hj Mas Rosemal Hakim Mas Haris  
ChM Yap Fei Ching  
ChM Dr Aqeel Saravanan

49. Four issues of the Berita IKM were published as follows:
- No. 146 (March 2022)
  - No. 147 (June 2022)
  - No. 148 (September 2022)
  - No. 149 (December 2022)

### **Malaysian Journal of Chemistry**

50. The Editorial Board for the Malaysian Journal of Chemistry (MJChem) comprised the following:

Name	Organization
Datin ChM Dr Zuriati Zakaria (Editor-in-Chief & Chairperson-Editorial Board)	Institut Kimia Malaysia / Academy of Sciences Malaysia
Assoc. Prof ChM Dr Juan Joon Ching (Associate Editor-in-Chief)	Institut Kimia Malaysia / University of Malaya
Academician ChM Dr Ho Chee Cheong	Institut Kimia Malaysia / Academy of Sciences Malaysia
Prof ChM Dr Yang Farina Abdul Aziz	Institut Kimia Malaysia
Prof ChM Ts Dr Chan Chin Han	Institut Kimia Malaysia / Universiti Teknologi MARA
Prof Datuk ChM Dr Y. H. Taufiq-Yap	Universiti Putra Malaysia
Prof ChM Dr Wan Aini Wan Ibrahim	Universiti Teknologi Malaysia
Assoc. Prof ChM Dr Anita Ramli	Universiti Teknologi PETRONAS
Assoc. Prof ChM Dr Collin G. Joseph	Universiti Malaysia Sabah
Prof ChM Dr Sharon Teh Geok Bee	Southern University College
Dr ChM Nurul Izzaty Hassan	Universiti Kebangsaan Malaysia
ChM Dr Fatimah Salim	Universiti Teknologi MARA
ChM Dr Ngai Koh Sing (Associate Editor)	Institut Kimia Malaysia

51. The Board was established to look into various aspects of the publication of the Journal. Following current trends in the publication of Journals, the Malaysian Journal of Chemistry is published on-line at IKM website.
52. In 2022, articles were published in 4 issues of the Malaysian Journal of Chemistry. They are:
- Volume 24(1), 2022 - 12 articles
  - Volume 24(2), 2022 - 33 articles
  - Volume 24(3), 2022 - 10 articles
  - Volume 24(4), 2022 - 24 articles

### **NATIONAL AND INTERNATIONAL CONFERENCES/SEMINARS FORUM ON CHEMISTRY & CLIMATE CHANGE (C&CC)**

53. The main culprit of climate change is carbon dioxide in the atmosphere. This is due mainly to the use of fossil fuels as a source of energy for power generation and transportation. Other human-induced activities such as deforestation, land clearing for agriculture and degradation of soil, also contributed significantly to the release of carbon dioxide into the atmosphere. The obvious solution is to replace fossil fuels with other renewable energies such as solar, wind, geothermal and even nuclear. Chemistry plays a very important part in the development of these renewable energy resources. In fact, the development of these renewable energy resources is so advanced that they are gradually replacing fossil fuels in the energy supply system.

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Research work on new energy sources such as green hydrogen and induced fusion, are very promising and they may soon be available. Beside working on reducing carbon emission, scientists are also working on decarbonisation, removing carbon dioxide from the atmosphere. A lot of research are being done now to find ways for the large-scale sequestration of carbon dioxide from the air at a reasonable cost.

54. On the 26 March 2022, IKM brought together an invited speaker and five keynote speakers to talk about climate change from various perspectives to raise awareness, initiate discussions and inspire chemists in attendance to bring about change from their respective areas of expertise. The followings were the presentation highlights:
- Welcome & Introductory Remarks by Datuk ChM Dr Soon Ting Kueh, President, Institut Kimia Malaysia
  - Invited Lecture on Climate Change: Chemistry Comes to The Rescue by Assistant Professor ChM Dr Yvonne Choo Shuen Lann, Xiamen University Malaysia
  - Keynote Lecture on COP 26: Climate Change and Its Global Impact on Economy and Society by Datin Seri Sunita Rajakumar, Climate Governance Malaysia
  - Keynote Lecture on Chemistry and Sustainable Development Goals in Malaysia by by Associate Professor ChM Dr Collin G. Joseph and Professor Datuk ChM Ts Dr Taufiq Yap Yun Hin, Universiti Malaysia Sabah
  - Keynote Lecture on Climate Change Mitigation and Adaptation: An Imperative for Advancing Scientific Action by Professor Dr Joy Jacqueline Pereira, SEADPRI-Universiti Kebangsaan Malaysia
  - Keynote Lecture on Green Hydrogen Economy and Its Impact on Climate Change by Datin Dr Vijayalakshmi Samuel, AGV Energy & Technology Sdn. Bhd., Malaysia
  - Keynote Lecture on Tropical Forests: Its Role in Carbon Sequestration and Climate Change Mitigation by ChM Dr Jeyanny Vijayanathan, Forest Research Institute Malaysia

### **10TH SYMPOSIUM ON BEST PRACTICES & INNOVATIONS IN LABORATORY MANAGEMENT (10TH BPI-LAB 2021)**

55. The 10th Symposium on Best Practices & Innovations in Laboratory Management 2021 (10th BPI-LAB 2021) was successfully conducted from 24 to 25 March 2022 at the Kuala Lumpur Convention Centre. It is a continuation and a fresh rebranding of the previously held biennial Symposium on Quality, Safety, Environment & Laboratory Informatics (QSEL). 10th BPI-LAB 2021 was jointly organised by IKM and Department of Chemistry Malaysia, in collaboration with the Department of Standards Malaysia, Department of Occupational Safety and Health, National Water Research Institute of Malaysia as well as Environmental Preservation & Innovation Centre Sdn Bhd. 10th BPI-LAB 2021 was the first face-to-face event organised by IKM after a 2-year hiatus due to COVID-19 pandemic.
56. With the theme Advancing Excellence & Best Practices in Laboratory Operations and Management, 10th BPI-LAB 2021 focused on the latest development and advances in the field of Green Chemistry & Sustainability, Laboratory Safety & Chemical Hazards, Laboratory Science Education & Quality, Disruptive Technologies and Automation & Digitalisation. BPI-LAB 2021 aimed to help the attendees in keeping up-to-date with the latest development in these areas as the laboratory industry is constantly evolving with new technologies, regulations and ways of working.
57. The following depict the speakers and their topics according to the five key areas:

#### Key Area 1: Laboratory Safety & Chemical Hazards

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Innovations in Laboratory Analysis through Application of Chemosensors and Biosensors Technology by Prof. Dato' Dr. Musa Ahmad, Universiti Sains Islam Malaysia (USIM)

Waste + Water = Wealth by Dr. Pramila Tamunaidu, Malaysia Japan International Institute of Technology, Universiti Teknologi Malaysia

Green Laboratory Practice in Research by Assoc. Prof. Dr. Juan Joon Ching, Institute of Graduate Studies, University of Malaya

Innovation Green Chemistry & Sustainability to Service Mankind and Shaping the Future by Dr. Lai Fook Chuan, General Manager, Hartalega NGC Sdn. Bhd.

Enabling Productivity and Environmental Sustainability in Gas Chromatography and Mass Spectrometry Laboratories by Mr. Ian Sik, Technical Support Specialist, Agilent Technologies Malaysia

Nanomaterials: Synthesis and Integration Innovative Labs under MOSTI's Rangkaian Makmal Nanoteknologi Kebangsaan (RMNK) by Prof. Madya Dr. Ruslinda A. Rahim, Pusat Nanoteknologi Kebangsaan, Kementerian Sains, Teknologi & Inovasi

### Key Area 3: Laboratory Science Education & Quality

Making Learning Alive: Applications in Ethics and Laboratory Safety Education by Dr. Low May Lee, International Medical University

Laboratory Science Education – Bridging Schools and Learnings Institutions with Industry, Private and Government Agencies by Dr. Gurminder Kaur Sardool Singh, Science Officer, Department of Pathology, HKL

Future “Elements” of the Chemical Industry by Dr. Tan Shu Ying, Principal Analyst, Malaysian Industry-Government Group for High Technology (MIGHT)

Quality and Competency of Accredited Laboratory by Pn. Fariza Wan Abdullah, Senior Principal Assistant Director, Department of Standards Malaysia (Standards Malaysia)

Halal Science: The Need to Keep Abreast of Recent Technology and Quality Assurance in Halal Analysis by Dr. Padillah bt Yahya, Scientific Officer, Industry Tariff Analysis Centre, Department of Chemistry Malaysia (KIMIA Malaysia)

Innovations in Forensic Toxicology by Dr. Sharmilah Kuppusami, Scientific Officer, Toxicology Division, Department of Chemistry Malaysia (KIMIA Malaysia)

### Key Area 4: Disruptive Technologies

The Problem May Get Smaller: Microplastics to Nanoplastics by Dr. Chin Teen Teen, General Manager, ALS Technichem (M) Sdn. Bhd.

Disruptive Technology & Firm Performance by Dr. Daljeet Singh Malkeet Singh, Business Director, Acuity Business Solutions

ToF: A New Approach for On-Site Analysis of Emerging Contaminant/Pollutant in Air by Dr. Tan Yi Hong, Application and Service Engineer / Product Specialist, Tay Scientific Instruments Sdn. Bhd.

### Key Area 5: Automation & Digitization

IR4.0 and Laboratory Management System by Mr. Louis Ooi Shu Geok, Chairman/ Managing Director, Persatuan Makmal Akreditasi Malaysia (PMAM)

Where Should It Begin with Lab Automation by Mr. Ang Eng Loo, Business Manager, CLMO Technology Sdn Bhd

A Graphical User Interface Application for Automated Processing and Chemometrics Analysis of Infrared Spectra by Assoc. Prof. Dr. Sim Siong Fong, Universiti Malaysia Sarawak (UNIMAS)

Direct Mass Detection Technology, Discover the Power of Knowing Now by Ms. Davina Law Stewart, Senior Mass Spectrometry Business Development Specialist, SEA, Waters Analytical Instruments Sdn Bhd

58. Parallel to the oral presentations, attendees were also welcomed to visit and observe the exhibition booths set up by agency and technology companies such as Waters Analytical Sdn. Bhd., Tay Scientific Instruments Sdn. Bhd., Agilent Technologies Sales (M) Sdn. Bhd., Orbiting Scientific & Technology Sdn. Bhd. and Standards Malaysia. The symposium was concluded with a Symposium Banquet held at the end of Day 2. For most of the participants, the 10th BPI-LAB 2021 was the first face-to-face event that they

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attended since the pandemic started. The organising committee sincerely hope that the participants had a good time catching up with their colleagues and acquaintances.

### **INTERNATIONAL CONGRESS ON PURE & APPLIED CHEMISTRY (ICPAC) KOTA KINABALU 2022, SABAH**

59. Institut Kimia Malaysia (IKM) successfully organized the ICPAC Kota Kinabalu (ICPAC KK) 2022 at the Magellan Sutera Resort Hotel, Kota Kinabalu, Sabah from 22 – 27 November 2022. ICPAC KK 2022 is a major international scientific meeting covering all major areas of pure and applied chemistry. ICPAC was first held in 2016 in Kuching, Sarawak, Malaysia and ever since, it is being held annually in countries like Vietnam, Cambodia, Malaysia and Myanmar. ICPAC KK 2022 is the sixth of a series of major international scientific meeting covering all areas of pure and applied chemistry including specific themed symposia.
60. The participants of ICPAC KK 2022 come from all over the world, but majority are from Asia. For ICPAC KK 2022, we have a total of 504 delegates coming from 6 countries. The Scientific programmes include 8 Plenary Lectures, 18 Keynotes, 359 Invited/Oral Lectures and 10 poster presentations, making a total of 395 presentations. ICPAC KK 2022 comprised the following General Session and Symposia:
- Symposium on Organic and Biomolecular Chemistry (OBC)
  - Symposium on Analytical and Environmental Chemistry & Engineering (AEC)
  - Symposium on Polymer and Materials Chemistry (PMC)
  - Symposium on Physical Chemistry and Catalysis (PCC)
  - Symposium on Inorganic and Coordination Chemistry (ICC)
  - ICPAC General Session (IGS)
  - International Symposium on Advanced Polymeric Materials (ISAPM) 2022
61. Official Opening Ceremony  
Datuk Sr. Hj Mohd Yusrie Abdullah, representing YB Datuk Jafry Bin Ariffin, Minister of Tourism, Culture and Environment, Sabah, officiated the Opening Ceremony of ICPAC KK 2022 on Tuesday, 22 November.
62. ICPAC KK 2022 Technical Programme  
Plenary Sessions  
Tuesday, 22 November 2022  
Plenary Lecture 1  
From Reduction to Alkylation: A Journey with Iron Complexes  
Jean Luc Renaud, *University of Caen Normandie, France*
- Plenary Lecture 2  
Moon-shot Design on BioNylon with Photo-switched Marine-Degradability  
Tatsuo Kaneko, *Japan Advanced Institute of Science and Technology, Japan*
- Wednesday, 23 November 2022  
Plenary Lecture 3  
Game-changing innovation in peptide synthesis  
Hisashi Yamamoto, *Chubu University, Japan*
- Plenary Lecture 4  
Enantioselective Decarboxylative Chlorination of  $\beta$ -Oxocarboxylic Acids and Stereospecific Derivatization of the Resulting  $\alpha$ -Chloroketones  
Kazutaka Shibatomi, *Toyohashi University of Technology, Japan*
- Thursday, 24 November 2022  
Plenary Lecture 5  
Axis-to-center Chirality Transfer Reaction of Organophosphorus Compounds with a Binaphthyl Group as a Key Process Leading to the Formation of P-Chirogenic Derivatives  
Toshiaki Murai, *Gifu University, Japan*

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### Plenary Lecture 6

Ligand-Protected Metal Nanoclusters: Recent Development in Synthesis and Application in Energy and Environmental Field

Yuichi Negishi, *Tokyo University of Science, Japan*

Friday, 25 November 2022

### Plenary Lecture 7

Temperature-Response Chemistry of Thermo-Electrochemical Cell toward Waste Heat Harvesting

Tepei Yamada, *The University of Tokyo, Japan*

### Plenary Lecture 8

Glass transition in polymers

Jean Marc Saiter, *University of Rouen Normandy, France*

### 63. ICPAC KK Welcome Reception

The welcome reception for the delegates were held on North Borneo Cruise. The 2-hour cruise sails past the islands of Tunku Abdul Rahman Marine park and down the central coast gliding along the city's famous Waterfront. The delegates got a feel of Kota Kinabalu's stunning sea-side position with a combination of sumptuous cuisine, breezy sea views and live music onboard the North Borneo Cruise.

### 64. ICPAC KK Banquet

The Congress Banquet held on Thursday, 24 November, was a grand occasion. About 250 delegates with invited guests attended the Banquet. Datuk ChM Dr Soon Ting Kueh gave the Welcome Address to invite all delegates to sample the local dishes and enjoy the entertainment provided. The delegates were entertained by cultural performances of Sabah Tourism Board. A number of guests including Prof Takahashi and Datuk ChM Dr Soon also took to the stage with karaoke singing. All in all, it is a fun filled evening.

### 65. Congress Tours

IKM organized 3 tours for the delegates with a local tour company. Delegates were allowed to choose one from the three tour packages offered. Tour A started with the Mari Mari Cultural Village followed by city tour. Mari Mari Cultural Village offers glimpses into the lives of Sabah's rich culture with its distinctive houses, costumes and traditional skills of five major Sabah's ethnic groups; the farmers and traders Dusun and Rungus, the hunters and fishermen Lundayeh, the cowboys and sea gypsies Bajau, and the famously feared warrior tribe Murut. The tour proceeded with KK City Tour which include the Atkinson clock Tower, Masjid Likas (Floating Mosque) and UMS, Yayasan Sabah and The Kinabalu Tower, which is also known as Sabah State Administrative Centre. Tour B was a boat ride to one of the islands located in the Tunku Abdul Rahman Marine Park. The delegates got to relax and luxuriate on pristine white beaches, swim in warm azure waters and snorkel amidst a myriad to tropical fishes or explore rich coral reefs on the islands fringes. Tour C started with visit to Nabalun Town for the Nabalun Handicraft & Souvenir Market. Delegates were able to enjoy a panoramic view of Mount Kinabalu from a nearby platform. After that they were brought to Kinabalu National Park, Malaysia's very first UNESCO World Heritage Site. Among the places visited were Sabah Tea, Fish Spa and Kundasang war memorial. All in all, the delegates enjoyed the excursion tours very much.

### 66. Conclusion and Appreciation

ICPAC KK 2022 was a successful and memorable event. On behalf of the Organizers, IKM would like to record our sincere appreciation to the Foundation for Interaction between Science and Technology (Japan), Universiti Malaysia Sabah, Asia Chem Corporation (Japan), Sabah Tourism Board and Malaysia Convention & Exhibition Bureau (MyCEB) for the support and collaboration in making ICPAC KK 2022 a great success. We would also like to thank all ICPAC KK 2022 Plenary and Keynote Speakers, all Invited, Oral and Poster Presenters, and all Session Chairpersons for contributing to the success of ICPAC KK 2022. To all Members of ICPAC KK 2022 Organizing Committee and all those who have contributed in one way or another in making ICPAC KK 2022 a success, we would like to record our utmost appreciation.



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### MALAM KIMIA & PRESENTATION OF IKM AWARDS 2022

67. Malam Kimia & Presentation of IKM Awards 2022 was held on 2 December 2022 at One World Hotel, Petaling Jaya, Selangor.
68. The awards presented were as follows: K3M Top Scorer Awards, IKM Merit Awards, IKM Special Merit Awards, IKM Graduate Chemistry Medals, IKM Research Prize in Polymer & Materials Science, IKM/RSC-Synthomer Award in Polymer Science, Tan Sri Datuk Ong Kee Hui Postgraduate Chemistry Medal, Outstanding Young Chemist Awards, IKM Citation Awards, New Fellows of IKM, IKM Gold Medal and IKM Laboratory Excellence Awards. This year we presented IKM Licentiate Examination Certificates to those who passed the IKM LMIC Part 1 Examination in 2021 & 2022.
69. Malam Kimia 2022 managed to attract a total of 680 IKM members, S&T organisations, universities and industries as well as well-wishers. Malam Kimia and Presentation of IKM Awards 2022 ceremony was a successful and memorable event. The list of 2022 Award Recipients are listed below:

Award	Recipient
IKM Gold Medal	Prof Datuk ChM Ts Dr Taufiq Yap Yun Hin
New Fellow of IKM	Prof ChM Dr Mohd Basyaruddin Bin Abdul Rahman, Prof ChM Dr Rusli Bin Daik, Assoc Prof ChM Dr Lee Hooi Ling, Assoc Prof ChM Dr Goh Choo Ta, Prof ChM Dr Mohammad Bin Kassim, Hon Col (CD) Snr Assoc Prof ChM Dr Kathiresan A/L Sathasivam, ChM Nurida Bte Mohd Yusop
IKM Citation Award	Assoc Prof ChM Dr Melati Binti Khairuddean, Assoc Prof ChM Dr Nor Azyiah Binti Bakhari, ChM Dr Cindy Tan Soo Yun, Prof ChM Dr Zaiton Abdul Majid
IKM Outstanding Young Chemist Award	<i>Academic Category:</i> Prof ChM Dr Lim Hong Ngee <i>Industry Category:</i> ChM Dr Mohamad Nasir Bin Mat Arip
Tan Sri Datuk Ong Kee Hui Postgraduate Chemistry Medal	Dr Muhammad Ameerullah Bin Sahudin
IKM/RSC – Synthomer Award in Polymer Science sponsored by Synthomer Sdn Bhd	ChM Dr Muhammad Hakim Shafie
IKM Research Prize in Polymer and Materials Science sponsored by HARPS Holdings Bhd and Synthomer Sdn Bhd	Ayo Olasupo, Bee Soo Ling, Chia Wen Yi, Hemavathi Krishnan, Muhammad Faiz Bin Aizamddin, Roslim Bin Ramli @ Lim Chai
IKM Graduate Chemistry Medals	Khor Jia Wei, Lim Wei Jean, Mohamad Alif Qayyun Bin Zawawi, Muhammad Syafiq Akmal Bin Mohd Fahmi, Wong Ru Yee

### IKM Merit Award Recipients 2022

Recipients	Parent	Examination
Pung Ruo Xin	Liang Mei Keat, Dr	SPM 2021
Derick Wong Jun Jieh	Edwin Wong Kie Ying	SPM 2021
Cheng Yanly	Goh Swee Yong, Christy	SPM 2021
Ryan Koh Jia Xian	Chan Yuen Teng	SPM 2021
Ryan Chin Aun Shern	Chin Ban Kong	SPM 2021
Yeow Shuen Yi	Yeow Liang Ming	SPM 2021
Lim Yee Han	Wong Loy Ding	SPM 2021
Tok Evan	Li Hui Ling	SPM 2021
Joel Pang Kai Chen	Pang Suh Chem, Prof Dr	SPM 2021
Nur Aimi Izzah binti Halim	Shasya @ Natasha Bte Usir @ Uzir	SPM 2021

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Marsha binti Mokhtar	Nurfaizah Abu Tahrim, Dr	SPM 2021
Nur Sarah Hanis binti Mohd Lip	Mohd Lip Bin Jabit	SPM 2021
Danish Anas Yap Taufiq Yap	Taufiq Yap Yun Hin, Prof Datuk Dr	SPM 2021
Hannah Tan Ruyi	Tan Seng Loon	O-Level
Chua Jade Lynn	Tan Hui Choo	A Level
Kaartic Ramana A/L Vengidesh	Dr. Pushpamalar A/P Janarthanan	A Level
Joyce Pang Kai Sze	Pang Suh Chem, Prof Dr	Matric 2021/2022
Tang Yee Jie	Chua Lee Suan , Dr	Matric 2021/2022
Annabelle Ju Zhen Yi	Petronella G Ah Tung	A Level
Saveen Raj A/L Shanmuga Suntharam	Malarvili A/P Ramalingam, Dr	Foundation 2021

<b>IKM Special Merit Award Recipients 2022 sponsored By IKM Law Hieng Ding Foundation</b>	
<b>Recipients</b>	<b>Occupation</b>
Ms Komathi Veerasinghan	Teacher at SMK Ave Maria Convent, Ipoh, Perak
Ms Lee Saw Im	Teacher at SMK Seri Bintang Utara, Kuala Lumpur

<b>K3M Top Scorer Award Winners 2021</b>	
<b>O LEVEL</b>	
Ong Zhi Yen	SMK Sultan Ibrahim
Eugene Ang Soosay	SMK Seri Mutiara
Cheok Tze Ziang	SMK Seri Mutiara
Au Yong Mun Keng	SMK Seri Mutiara
Chiew Yuit Shuin Ryan	SMK Seri Mutiara
Kenzy Wong Chee How	SMK Seri Mutiara
Chin Yong Hong	SM Kuen Cheng
Ng Yu Xuan	SM Kuen Cheng
Goh Weixuan	SMK St. Anne's Convent
<b>A LEVEL</b>	
Moey Sean Jean	SM Kuen Cheng
Chang Kian Yau	SUNWAY College Kuala Lumpur
Andrew Wong Zhi Yong	SMK Tung Hua
Joyton Fu Hung Li	Methodist College Kuala Lumpur
Tan Yu Rou	SM Foon Yew - Kulai
Pang Shu Han	SM Foon Yew - Kulai
Pang Yi Hahn	SM Foon Yew - Kulai
Lee Han Yang	SUNWAY College Kuala Lumpur

<b>K3M Top Scorer Award Winners 2022</b>	
<b>O LEVEL</b>	
Wong Jian Bin	Chong Hwa Independent High School
Te Yuen Bing	SMJK Yoke Kuan
Cheong Chi Fung	SMK Bandar Baru Seri Petaling
Yee Siao Lin	SMK Bandar Baru Seri Petaling
David Luk Ku Chian	SM Lodge
<b>A LEVEL</b>	
Pua E Rick	Kolej Yayasan UEM
Joyton Fu Hung Li	Methodist College Kuala Lumpur

<b>IKM LMIC Part I Examination 2021 Certificates Recipients</b>	
Arina Hidayah Binti Irhamni	Nazirah Binti Razali

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Azyyati Binti Mohd Padzil	Nik Muhammad Ikhwan Sulhi Bin Ibrahim
Chang Hui Kee	Noor Haida Binti Sebran
Dr Lau Yeh Siang	Norhafiza Binti Sulaiman
Dzulhafiz Said Bin Hasbi	Nur Lina Binti Zulkipeli
Elsa Easter Justine	Nurmelissa Hanani Binti Hamidon
Faten Ahada Binti Mohd Azli	Nursyuhaida Binti Mohd Hanafi
Hairiyatul Aliyah Binti Abdul Rahim	Nurul Azima Binti Abd Aziz
Kanagaraj A/L Rajandran	Rabitah Binti Mohamed Hanafiah
Khoo Yee Shu	Rasvini A/P Asogan
Khor Qiongzhi	Santhya Letchumi A/P Tegaraja
Kong Siew Fung	Shirley Chai Sing Yee
Lai Hui Ting	Shuhaizi Bin Ahmad
Lau Siau Ting	Tai Nyok Ling
Lee Khai Hong	Tan Siew Lan
Lee Shu Zhen	Tan Xiang Han
Lim Huey Chen	Teh Chin Loong
Lina Khalida Binti Norshariffudin	Teng Siaw Lin
Ling Jem Shan	Teoh Jay Kee
Liyana Salwa Binti Mohd Nazir	Wong Boon Keat
Matavi A/P Manohar	Wong Wai Yee
Mohammad Azri Bin Md Hanafiah	Wong Yung Ting
Muhammad Azza Bin Mustafa	Yeo Tze Ying
Muhammad Firdaus Bin Zainuddin	
<b>IKM LMIC Part I Examination 2022 Certificates Recipients</b>	
Anna Anak Janin	Najiah Binti Nadir
Dr Chan Choi Yee	Ng Kok Hua
Dr Tan Ngai Paing	Nur Afiqah Binti Basari
Dr Woo Lai San	Nur Khairina Binti Khosan
Dr Yong Yoong Soon	Nurul Ezzati Binti Kassim
Ida Madiha Binti Yusoff	Nurulhuda Binti Mohd Sani
Judith Jellie Anak Jeffery Geraman	Ow Yu Wei
Jumaini Binti Silamuddin	Roshini A/P Nadaraja
Lai Jian Yu	Rozainie Binti Md Rosalin
Lee Yun Qian	Samantha Ling Yuan Ci
Loh Yik Khang	Suganthi A/P Krishnan
Mardiatul Atirah Binti Mohd Sabri	Tey Cheng Yi
Marissa Binti Mazlan	Tong Shi Ruo
Muhammad Ikhsan Bin Abdur Rahman	Wong Pui Nei
Muhammad Syukor Bin Sulaiman	

70. Another highlight of the Malam Kimia is the presentation of the IKM Laboratory Excellence Awards. This year, a total of 68 laboratories throughout Malaysia received their certificates.

71. The following laboratories received these awards:  
 IKM Laboratory Excellence Silver Award 2021 (10 consecutive years of IKM Laboratory Excellence Award)  
 ➤ Pengurusan Air Selangor Sdn Bhd, Northern Regional Laboratory, Sg. Selangor Phase 2 Water Treatment Plant, Bestari Jaya, Selangor

IKM Laboratory Excellence Diamond Award 2022 (25 consecutive years of IKM Laboratory Excellence Award)

- FGV Agri Services Sdn Bhd, FGV Analytical Laboratory, Jengka, Pahang
- PETRONAS Research Sdn Bhd, Kajang, Selangor

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IKM Laboratory Excellence Platinum Award 2022 (20 consecutive years of IKM Laboratory Excellence Award)

- Kualiti Alam Sdn Bhd, Bukit Pelanduk, Negeri Sembilan

IKM Laboratory Excellence Silver Award 2022 (10 consecutive years of IKM Laboratory Excellence Award)

- PETRONAS Gas Berhad, Analytical Technology Export Terminal, Kemaman, Terengganu

### IKM TRAVEL GRANT RECIPIENTS

72. Travel Grant approved for the term 2022/2023:

- Assoc Prof ChM Dr. Rizafizah Binti Othaman  
Department of Chemical Sciences, Universiti Kebangsaan Malaysia  
Amount: RM2,000.00 to present an oral paper at the Pure and Applied Chemistry International Conference 2023 (PACCON 2023), Mae Fah Luang University, Chiang Rai, Thailand on 20 – 21, January 2023.

### PUBLICITY

73. The following information circulars/flyers were sent to members: -

- Malam Kimia 2022
- Year 2022 Retention Fee Payment
- Notice of the 56<sup>th</sup> AGM 2023
- Draft Minutes of 55<sup>th</sup> AGM 2022
- Annual Financial Statements for year ended 31 December 2022
- Annual Report for 2022/2023

### III: INTERACTION WITH NATIONAL, REGIONAL & PROFESSIONAL ORGANIZATIONS CONFEDERATION OF SCIENTIFIC AND TECHNOLOGICAL ASSOCIATIONS IN MALAYSIA (COSTAM)

74. The COSTAM EXCO for 2022/2024 are as follows:

Names	Association	Position
Prof. Ir. Dr. Ruslan Hassan	TAM	President
DCP (R) Dato' Dr. Yew Chong Hooi	FSSM / IKM	Deputy President
Prof. Dr. Abd Rahman Milan	PGM	Vice President
AP Dato' Dr. Vellayan Subramaniam	MSA	Vice President
Dr. Stephen Wong Kam Sum	MSSA	Honorary Secretary
Dr. Koh Kar Chai	MMA	Asst. Honorary Secretary
Ts Joel Lim Soon Yeen	TAM	Treasurer
Dr. Sam Mohan	MSPTM	Exco Member
Dr. Yeap Gim Ean	MMA	Exco Member
Ms. Wee Hui Bieh	MSA	Exco Member
Dr. Mohammed Rizman bin Idid	MSMS	Exco Member
Prof. Lee Chien Sing	MINDS	Exco Member
Ir. Dr. Aidil bin Chee Tahir	IEM	Exco Member

75. The 38th Annual General Meeting of COSTAM was held on Saturday, 24th September 2022.

### KISM SDN BHD

76. KISM Sdn Bhd is a privately owned company by six S&T organizations, namely Malaysian Scientific Association (MSA), Institut Kimia Malaysia (IKM), Institut Fizik Malaysia (IFM), Plastic and Rubber Institute of Malaysia (PRIM), Veterinary Association Malaysia (VAM) and Malaysian Institute of Food Technology. As at 31 December 2019, IKM holds 210,000 shares in KISM Sdn Bhd out of a total of 1,500,000 shares. IKM's representative on KISM Board is Datuk ChM Dr Soon Ting Kueh with Datin ChM Dr Zuriati Zakaria as the alternate as from May 2018.

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77. KISM Sdn Bhd held its Annual General Meeting on 25 June 2022 at KISM Sdn Bhd Office, Bangunan Sultan Salahuddin Abdul Aziz Shah, 16 Jalan Utara, 46200 Petaling Jaya, Selangor.
78. For 2021, KISM Board had decided to pay a dividend of 7% amounting to RM105,000 to the shareholders. For IKM, this amounted to RM14,700.00.
79. Maxis Communications continued its rental at Wisma KISM at a monthly rental of RM4,250 per month starting from April 2022.
80. Wisma KISM is rented to WQ Medic Sdn Bhd effective 1 September 2022 for a period of 3 years with a monthly rental of RM15,000.
81. KISM Sdn Bhd's shop lot (2034 sq. ft.) at Leisure Commerce Square, Kuala Lumpur is currently rented out to R Logic Customer Care Sdn. Bhd at RM2,800 per month effective 1 March 2022 for 2 years.

### **BALAI IKHTISAS MALAYSIA (BIM)**

82. Executive Committee
- |                          |   |         |
|--------------------------|---|---------|
| President                | : Dr. Wilmot Sasindran Dass             | (MAVMA) |
| Deputy President         | : Assoc Prof Dr Juan Joon Ching         | (IKM)   |
| Vice President           | : Ir. Gunasagaran Kristnan              | (IEM)   |
| Vice President           | : Ts Hj Mohd Nasir Bin Alias            | (CILTM) |
| Honorary Secretary       | : Assoc. Prof. LAr. Dr Nor Atiah Ismail | (ILAM)  |
| Honorary Treasurer       | : Sr Lim Kok Sang                       | (RISM)  |
| Ordinary Member          | : Dr Rosazlin Abdullah                  | (MSSS)  |
|                          | Ir Dr Bhuvendhraa Rudrusamy             | (IEM)   |
|                          | Dr Ismail Harun                         | (IRIM)  |
|                          | Mr Wong Khin Yip                        | (CIOBM) |
|                          | Prof Dato' Dr Mohd. Azmi Lila           | (MAVMA) |
| Immediate Past President | : Ar. Abu Zarim Abu Bakar               | (PAM)   |
83. Dates for EXCO, BOM meetings and AGM:  
EXCO Meetings: 21 September 2022, 19 October 2022, 23 November 2022, 21 December 2022, 18 January 2023, 22 February 2023, 22 March 2023, 19 April 2023, 24 May 2023, 21 June 2023  
BOM Meetings: 21 September 2022, 18 January 2023, 24 May 2023  
AGM: 26 July 2023
84. Report of Sub Committees  
Presidential Advisory Council - IPP Ar. Abu Zarim Abu Bakar reported that from the last Exco of the previous term he was tasked to look into the constitution amendments for the review of the following: -  
i) How to transfer property to be held under the Institution?  
ii) Matters on Trustee.  
iii) To enable financial year ending to January to December for purposes of tax reporting at the Lembaga Hasil.  
He seeks to work on the matters within 2 to 3 months' timeline.
- Corporate Affairs and Government Liaison - Dr Juan Joon Ching reported the following on the 50th Celebration Events:  
i) Annual Dinner – He thanked the Events Committees, the Exco and the secretariat for the success of the 50th Anniversary Celebration events. He would like to record that the secretariat has done a good job, and all agenda has run well. However, it was commented the MCs were not professional, and for coming events, we should spend to appoint professional MCs.  
ii) To send a thank you letter to MITI for sending Encik Zahari Kechik to grace the Dinner.

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- iii) The attendance of registered members was disappointing, even though having registered, they have not made the effort to attend, and causing unnecessary spending being incurred, we would have to find ways to curb with the issue.

The followings were also reported:

To work on organizing a courtesy visit with MSPC, with the following Agenda:

- Getting to know each other
- The footing of BIM with MSPC

On ways of collaboration

- MITI – To arrange for a Courtesy Visit
- MOSTI – to follow up on the Courtesy Visit
- EPU – to follow up on the Courtesy Visit and to seek funding from EPU
- To organize a day, stay at FRIM in conjunction with our Exco/BOM meeting.

Membership- Mr Wong Khin Yip reported: -

Malaysian Institute of Human Resource Management (MIHRM) - Prior to the AGM, we have received a letter from MIHRM requesting for their membership to be converted to normal membership from Corporate Affiliate, we have subsequently sent them the membership application for their further action.

Malaysian Dental Association (MDA) – Dr Tan Yoke Seng has connected him to the Honorary Secretary, as BIM has previously sent our official letter in 2013 and 2016, to invite them to re-join BIM, we would work again on the same basis and BIM to resend a letter on the matter.

Institute of Value Management Malaysia (IVMM) - BIM have received an Invitation by IVMM to participate as a supporter and for participation (virtual) to their summit 2022, to help to promote and circulate the announcement on MVMS 2022 within our organisation and among members (through all possible mediums), in return, the official logo of our organization is to be inserted in the MVMS 2022 e-program book and receive two (2) complimentary participations. The Exco deliberated on the matter and concluded that as they are not our member, we should not allow our logo to be used notwithstanding that it is noted that it will be a good advertising for BIM, it will not be fair to our members who paid subscription. The Exco then proposed that Mr Wong Khin Yip to look into the possibility of them joining our membership, and to organise a courtesy visit to get to know them better.

Education Fund

Ts Hj Mohd Nasir Bin Alias was not present to report.

Secretariat & Finance

(a) Administrative - Assoc. Prof. LAr. Dr Nor Atiah Ismail reported that: -

- The committee will continue to work on the refurbishment work for the Meeting Room, instead of Mezzanine Floor, the committee will work on the Second Floor instead since major work is to be done, and also it will be closer to the secretariat office, which is on the top floor, with the hope that we are able to rent out the Mezzanine Floor with higher rate.
- Otherwise, the secretariat is operating as usual.

(b) Finance – Sr Lim Kok Sang reported: -

- BIM submitted the tax report to Lembaga Hasil for year 2021 and the tax payable by BIM is RM17,408.96, payment has been made accordingly.
- the instalment for maintenance charges and sinking fund to WZMC has been made accordingly, up to date of meeting we have made three payments together with the monthly maintenance charges based on our calculation.

Media and Publications/IT and Communications

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The secretariat reported that Ir. Gunasagaran Kristnan requested that the matter be brought up again with regards to the 75% payment totalling to RM3,500.00 to IT Guys as they are not agreeable to the sum, they reiterated that they have completed the job, however, the secretariat has reported in other manner. The secretariat reported that they only created the webportal of bim.org.my, transferred the old files from the previous site, but have not completed the works as per quotation. The Exco advised that we write to them as per our decision of the last meeting that we agreed only to pay 75% i.e RM3,500 and wait for their reply before we decide to act further.

### Training

Ir Dr Bhuvendhraa Rudrusamy reported that: -

- Talent Corp- a MOU was signed with Talent Corp on 27 July 2022, BIM to look into working with them to organize more seminars and talk entailing the MOU.
- MATRADE – In conjunction with the AGM and BIM 50th Anniversary dinner, a Half-Day Seminar was successfully organized, BIM to register as member of MATRADE, thereafter, to engage with them further to work on organizing more seminars and talk which favours our Member Institutions.
- Malaysia Productivity Centre (MPC) – to touch based again on organizing a talk that favour our Member Institutions.

### Gender Affirmity

Dr Nor Atiah reported that the video production was presented at the 50th Celebration Dinner, and it is a good start to gathering the Women in Professionals, the committee will continue to find working opportunity with the Professional Women. It was noted that Mr Ho Chee Leong of CIOBM commented that their institution was left out on the video production, the committee will continue to try to involve more Member Institutions in the future.

### Youth

Dr Ismail Harun is not present to report. Dr Wilmot proposed to organize a day stay at FRIM as the family day. The secretariat to follow up with Dr Ismail.

### **IKM REPRESENTATIVES IN NATIONAL COUNCIL, COMMITTEES & WORKING GROUPS**

85. IKM representatives on Standards Malaysia's Committees:

#### ***Malaysian National Accreditation Committee (NAC)***

Datuk ChM Dr. Soon Ting Kueh (Permanent member)

ChM Dr. Malarvili Ramalingam (Alternate member)

#### ***National Standards Committee on Chemicals and Materials (NSC 02)***

Datuk ChM Dr. Soon Ting Kueh (Permanent member)

ChM Chang Hon Fong (Alternate member)

#### ***National Standards Committee on Plastics and Plastic Products (NSC 10)***

Prof. ChM Ts Dr Chan Chin Han (Permanent member)

ChM Dr Lee Siang Yin (Alternate member)

#### ***National Standards Committee on Textiles and Apparels (NSC 17)***

ChM Dr Nurul Huda binti Abd Karim (Permanent member)

Assoc Prof ChM Dr Phang Sook Wai (Alternate member)

#### ***National Standards Committee on Quality Management and Quality Assurance (NSC 25)***

ChM Chang Hon Fong (Permanent member)

ChM Li Hui Ling (Alternate member)

#### ***National Standards Committee on Environmental Management (NSC 26)***

Datin ChM Dr Zuriati Zakaria (Permanent member)

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Assoc Prof ChM Dr Juan Joon Ching (Alternate member)

### **Technical Committee on Plastic Products**

Prof ChM Dr Mansor Ahmad (Permanent member)

### **Technical Committee on Textile Raw Materials and Chemical Tests**

Prof ChM Dr Ho Chee Cheong (Permanent member)

### **Technical Committee on Nanotechnologies**

DCP(R) Assoc. Prof. Dato' ChM Dr Yew Chong Hooi (Permanent member)

Prof. ChM Dr. Sharon Teh Geok Bee (Alternate member)

### **Technical Committee on Forensics**

ChM N. Hithaya Jeevan (Chairman)

### **Technical Committee on Statistical Methods**

ChM Chang Hon Fong (Permanent member)

Prof. ChM Dr Sharon Teh Geok Bee (Alternate member)

### **Technical Committee on Conformity Assessment**

Prof ChM Dr Sharon Teh Geok Bee (Co-opted member)

ChM Dr Linda Ng Yian Yian (Co-opted member)

### **Technical Committee on Child Care Articles**

Datin ChM Dr Zuriati Zakaria (Permanent member)

Asst Prof ChM Dr Yvonne Choo Shuen Lann (Alternate member)

### **Technical Committee on Circular Economy**

Datin ChM Dr Zuriati Zakaria (Permanent member)

Prof ChM Dr Mansor Ahmad (Alternate member)

### **Technical Committee on Lime and Lime Products**

ChM Zainal Arif Perwira bin Zainal Abidin (Permanent Member)

### **Working Group On Workplace Atmosphere and Indoor Air**

Assoc Prof ChM Dr Juan Joon Ching (Permanent member)

Assoc Prof ChM Dr Phang Sook Wai (Alternate member)

### **Working Group on Revision of SC1.2: Specific Criteria for Accreditation in the Field of Chemical Testing**

Dr. Linda Ng Yian Yian (Permanent member)

### **Working Group on Chemical Test Method Related to Halal**

ChM Dr. Malarvili Ramalingam (Permanent member)

ChM Li Hui Ling (Alternate member)

86. IKM representatives on Department of Environment's Committee:

#### **Consultant Evaluation Committee**

Datuk ChM Dr. Soon Ting Kueh (Permanent member)

Datin ChM Dr Zuriati Zakaria (Alternate member)

87. IKM representatives on Malaysian Timber Industry Board

#### **Technical Committee for Formaldehyde Emission CB**

Assoc. Prof. ChM Dr. Nor Yuziah Mohd Yunus (Permanent member)



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ChM Li Hui Ling (Alternate member)

### **Technical Committee for Plywood Type 5 Scheme CB**

Assoc. Prof. ChM Dr. Nor Yuziah Mohd Yunus (Permanent member)

ChM Li Hui Ling (Alternate member)

### **FEDERATION OF ASIAN CHEMICAL SOCIETIES (FACS)**

88. The Federation of Asian Chemical Societies (FACS) held its 80th FACS EXCO (Virtual Meeting), and 81st FACS EXCO (Hybrid Meeting) 1st of September 2022 and 19th of January 2023, respectively.

89. The FACS Executive Committee for 2021 – 2023.

<i>Name</i>	<i>Position</i>	<i>Country</i>
Prof Reuben Jih-Ru Hwu	President	Taiwan
Prof David Winkler	Past President	Australia
Prof Mustafa Cuhla	President-Elect	Turkey
Prof. Liu Ling-Kang	Secretary General	Taiwan
A/Prof. Dr. Onder Metin	Secretary General-Elect	Turkey
Assoc Prof Dr Juan Joon Ching	Treasurer	Malaysia
Prof Bong June Sung	Communications Director	Korea
Prof Mitsuo Sawamoto	Science Director	Japan
Prof Keinan Ehud	Science Director	Israel
Dr Su-Ping Zheng	Rep. from East & Pacific Asia	China
Dr Dien Pandiman	Rep. from Southeast Asia & Singapore	Papua New Guinea
Prof Mohd Wahab Khan	Rep. from South & West Asia	Bangladesh

90. FACS had a virtual meeting on 1st of September 2022 and then hybrid meeting on 19th of January 2023 at Chiang-Rai, Thailand. The 81st FACS exco meeting was hosted by Chemical Society of Thailand along with Pure and Applied Chemistry International Conference (PACCON) 2023. During these two meetings, various issues was discussed to strengthen FACS. The main discussion was on also focused on 19 Asian Chemical Congress (19ACC) and general assembly (GA) which will be held on Istanbul, Turkey on 8-14th of 2023. The deadline of abstract submission is on 5 March 2023 with the early bird registration before 10th of April 2023. During the GA at Istanbul, Turkey, IKM also showed the interest to bid for FACS conference on 2027 which is also the year IKM is going to celebrate 60th Anniversary. The next FACS exco meeting will be held at Kuala Lumpur on 11th of April 2023 and hosted by Institut Kimia Malaysia (IKM).

### **FEDERATION OF ASIAN POLYMER SOCIETIES (FAPS)**

91. The Federation of Asian Polymer Societies, or FAPS, is a federation of national polymer/chemical societies from countries and territories in Asia. It was first established in 2008 with 4 Founding Members from China, India, Japan and South Korea. IKM joined FAPS as a member in 2009. At present, member countries are South Korea, India, Japan, China, Turkey, Russia, Taiwan and Malaysia. Prof ChM Dr Rusli Daik is IKM's representative at FAPS.

92. Meetings:

- 15th FAPS Council Meeting (online, 6th July 2022 (online) - The meeting was held together with a mini seminar "Advanced Polymers in Moscow".
- 16th FAPS Council Meeting (online, 20th December 2022) - The meeting mainly discussed the preparation of the 8th FAPS Conference.
- 8th FAPS Conference (FAPS 2023) - It will be held in September 2023, Istanbul, Turkey.
- The chair is Prof. Ayse Zehra AROGUZ, Istanbul University-Cerrahpasa, Turkey.

### **INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY (IUPAC)**

93. Institut Kimia Malaysia (IKM) continued to be a National Adhering Association (NAO) of the International Union of Pure and Applied Chemistry (IUPAC) since 2009. IKM's annual National Subscription to IUPAC for

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2021 was paid by the Department of Chemistry Malaysia as requested by the Ministry of Science, Technology & Innovation (MOSTI).

94. The following IKM members were appointed to various IUPAC Divisions and Committees for 2022-2023:
- Committee on Chemistry Education (CCE) - Datuk ChM Dr Soon Ting Kueh (Titular Member)
  - Division I: Physical and Biophysical Chemistry - Prof ChM Dr Chong Kwok Feng (Associate Member)
  - Division II: Inorganic Chemistry - Prof ChM Dr Yang Farina Abdul Aziz (Associate Member)
  - Division III: Organic & Biomolecular Chemistry - Datin ChM Dr Zuriati Zakaria (National Representative)
  - Division IV: Polymer - Prof ChM Ts Dr Chan Chin Han (Titular Member)
  - Division V: Analytical Chemistry - ChM Dr Malarvili Ramalingam (National Representative)
  - Division VII: Chemistry & Human Health - Prof ChM Dr Sharon Teh Geok Bee (Associate Member)
  - Committee on Chemistry and Industry (COCI) - Prof ChM Dr Khozirah Shaari (Associate Member)
  - Committee on Chemical Research Applied - Asst Prof ChM Dr Yvonne Choo Shuen Lann to World Needs (CHEMRAWN) (National Representative)
95. The Dutch Chemical Society will host the 52<sup>nd</sup> General Assembly (52GA) and 49<sup>th</sup> World Chemistry Congress (49WCC) from 20-25 August 2023 in The Hague, Netherlands.
96. IKM will host the IUPAC 53<sup>rd</sup> General Assembly (53GA) and 50<sup>th</sup> World Chemistry Congress (50WCC) from 11-18 July 2025 in Kuala Lumpur, Malaysia. IKM will also host 51st World Polymer Congress (MACRO 2026) from 6-11 July 2026 in Kuching, Sarawak, Malaysia.

### IV: STEERING COMMITTEES PROFESSIONAL AFFAIRS COMMITTEE

97. The main tasks of the IKM Professional Affairs Committee were to look into the setting up of the Joint Technical Committee for the accreditation of Chemistry Programmes, appointment of Inspectors under the Chemists Act and also to review the Chemist (General) Rules 1977.
98. The "Notification of Appointment of Inspectors" has been published in the gazette on 7 September 2017.
99. The contents of Chemist Rules 2022 were discussed with officials from the Attorney General's Chamber. The documents will be submitted to YB Minister of MOSTI for approval in year 2023.

#### **Joint Technical Committee (JTC)-IKM Working Group**

100. IKM Council initiated to develop chemistry degree program standards to be adopted by our local universities. Subsequently a joint technical committee (JTC-IKM) working group involving representatives from IKM, Malaysian Qualifications Agency (MQA), universities and industries was formed to discuss and develop a chemistry degree programme standards for implementation by MQA for adoption by local universities. The inaugural JTC-IKM Working Group Committee Meeting was held on 3 January 2018 at IKM Board Room.
101. The JTC-IKM Working Group comprises the following:
- |   |                                      |
|---|--------------------------------------|
| Prof ChM Dr Ho Chee Cheong ( <i>Chairman</i> )  | IKM                                  |
| Mr Abdul Saman Taip                             | MQA                                  |
| Mr Kamarul Bakri Abd Aziz                       | MQA                                  |
| Ms Roslina Binti Abdullah                       | MQA                                  |
| Ms Nurul Atiqah Abdul Rahman                    | MQA                                  |
| Datin ChM Dr Zuriati Zakaria                    | IKM                                  |
| ChM Chang Hon Fong                              | IKM                                  |
| Prof ChM Dr Mansor Ahmad                        | Universiti Putra Malaysia / IKM      |
| Prof ChM Dr Yang Farina Abdul Aziz              | Universiti Kebangsaan Malaysia / IKM |
| DCP(R) Assoc. Prof. Dato' ChM Dr Yew Chong Hooi | IKM                                  |
| ChM Dr Malarvili Ramalingam                     | Jabatan Kimia Malaysia / IKM         |
| Prof ChM Dr Sharon Teh Geok Bee                 | IKM                                  |

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Assoc Prof ChM Dr Chong Fai Kait	Universiti Teknologi PETRONAS
ChM Dr Leong Loong Kong	IKM
Assoc Prof ChM Dr Ooi Ing Hong	International Medical University
ChM Dr Chin Teen	ALS Technichem (M) Sdn Bhd
ChM Dr Ng Thian Hong	IKM
ChM Dr Aqeel Saravanan	IKM (Secretariat)
ChM Mohd Azizi Al-Hafiz Wirzal	IKM (Secretariat)

### 102. **Chemistry Degree Program Standards**

The program standards cover 5 modules: Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Analytical Chemistry and Chemical Health & Safety Management. The Chemistry Programme Standards based on the proposals from JTC-IKM Working Group has been submitted to MQA for review and approval.

## V: EVENTS IN 2023

### 103. **IKM Forum on Looking Ahead & Moving Forward**

Saturday, 18th March 2023 at One World Hotel, Bandar Utama, Petaling Jaya, Selangor.

### 104. **56<sup>th</sup> IKM AGM & 2<sup>nd</sup> IKM Law Hieng Ding Foundation AGM**

Saturday, 18th March 2023 at One World Hotel, Bandar Utama, Petaling Jaya, Selangor.

### 105. **9<sup>th</sup> Network of Inter-Asian Chemistry Educators (9NICE) Conference**

27 - 30th July 2023, Kuching, Sarawak. Please refer to IKM website for updates.

### 106. **International Congress on Pure & Applied Chemistry (ICPAC) Bali 2023**

IKM together with the Foundation for Interaction between Science and Technology (FIST) Japan, Himpunan Kimia Indonesia (HKI) and Asia Chem Corporation (ACC) Japan are jointly organizing the International Congress on Pure & Applied Chemistry Bali 2023 from 13-17 September 2023. Please refer to IKM website for updates.

### 107. **16<sup>th</sup> Asian Conference on Analytical Sciences (ASIANALYSIS XVI) 2023**

The conference will be held from 9-12 October 2023 at the Kuala Lumpur Convention Centre, Kuala Lumpur. More details can be obtained from official conference website: <https://asianalysis2023.org/index.php>

### 108. **8<sup>th</sup> Edition of Malaysia International Scientific Instrument and Laboratory Equipment Exhibition and Conference (LabAsia) 2023**

The exhibition will be held from 10-12 October 2023 at the Kuala Lumpur Convention Centre, Kuala Lumpur. More details can be obtained from official website: <https://www.lab-asia.com/>

### 109. **Malam Kimia 2023**

Malam Kimia and Presentation of IKM Awards 2023 will be held on Friday, 1 December 2023.

## VI: ACTIVITIES OF BRANCHES

110. During the year, the Branches organized several activities which include the following:

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#### B1 - IKM NORTHERN BRANCH

#### **43rd Annual General Meeting**

The 43rd ANNUAL GENERAL MEETING of IKMNB was held at IXORA Hotel, Jalan Baru Perai Jaya, 13600 Perai, Penang on 12th February 2022 (Saturday), 3:00 pm – 6:00 pm. Dato' ChM Hj Mohammed Zaini bin Abdul Rahman represented IKM HQ to address and officiate the gathering of 27 registered members. The elected office bearers and internal auditors of IKMNB for term 2022-2023 are:

Dato' ChM Dr. Hj. Mas Rosemal Hakim bin Mas Haris	Chairman
ChM Dr. Kathiresan a/l Sathasivam	Vice Chairman

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ChM Dr. Nor Aziyah binti Bakhari	Honorary Secretary
ChM Damien Khoo Yiyuan	Honorary Treasurer
ChM Marina binti Mokhtar	Assistant Secretary
ChM Lee Zheng Nam	Assistant Treasurer
ChM Dr. Melati binti Khairuddean	Committee Member
ChM Dr. Nor Shifa bin Shuib	Committee Member
ChM Dr. Sumiyah binti Sabar	Committee Member
ChM Dr. Lee Chai Guan	Committee Member
ChM Dr. Lim Vuanghao	Committee Member
ChM Airul Azmel bin Ismail	Co-opted Com. Member
ChM Sidek bin Ahmad	Co-opted Com. Member
ChM Khairuzzaman bin Mustafa	Co-opted Com. Member
ChM Zaiton binti Abu Baidah	Co-opted Com. Member
ChM Dr. Goh Teik Beng	Internal Auditor
ChM Suriati binti Shaiddin	Internal Auditor

### **Committee Meetings**

1 <sup>st</sup> IKMNB committee meeting	12 <sup>th</sup> February 2022	IXORA Hotel, Jalan Baru Perai Jaya, Perai, Penang
2 <sup>nd</sup> IKMNB committee meeting	18 <sup>th</sup> March 2022	Online via Google Meet
3 <sup>rd</sup> IKMNB committee meeting	13 <sup>th</sup> May 2022	Meeting Room at 41, Jalan Siakap, Seberang Jaya, Penang and online
4 <sup>th</sup> IKMNB committee meeting	17 <sup>th</sup> September 2022	Meeting Room at 41, Jalan Siakap, Seberang Jaya, Penang and online
5 <sup>th</sup> IKMNB committee meeting	17 <sup>th</sup> November 2022	Online via Google Meet
6 <sup>th</sup> IKMNB committee meeting	7 <sup>th</sup> January 2023	Meeting Room at 41, Jalan Siakap, Seberang Jaya, Penang

### **Activities**

#### **Courtesy Visit to School of Chemical Sciences, USM**

IKMNB committee visited the School of Chemical Sciences, University Sains Malaysia on 17th March 2022. The aims of the visit were to discuss with Prof Dr Rohana binti Adnan (the Dean) about “Kimia Inovasi and Inovasi Malaysia (KI2M) which was scheduled on 25th May 2022 and to strengthen activities of mutual interest with the academic personnel & students. IKMNB committee would like to express their deep appreciation to Prof. Rohana and her executive team (deputy deans, head of division, head of laboratory staff and technical assistants) for their commendable hospitality throughout the face-to-face meeting.

#### **Empowering Future Invention and Innovation in Chemistry**

Dato’ ChM Dr. Mas and ChM Dr Nor Aziyah delivered talks on a Webinar organized by the School of Distance Learning, USM in collaboration with IKMNB on 21st April 2022.

#### **Talk Series - Design Thinking in Stem**

ChM Marina Mokhtar, Assistant Secretary of IKMNB, delivered a talk in a STEM+ TALK series organized by University Malaya STEM Centre for graduates who joined the Ministry of Higher Education’s Professional Certification (KPT-PACE) Programme. The talk entitled “Design Thinking in STEM”. The talk was delivered through virtual platform on 29th May 2022. A total of 50 graduates and final year students from local universities in Malaysia listened to the talk via synchronous and asynchronous platforms. The objectives of the talk were to improve skills and strengthen graduate’s competencies through professional certification based on expertise and competencies of related fields.

#### **Industrial Talk 2022**

ChM Damien Khoo, Hons. Treasurer of IKMNB and a Council Member, delivered a talk organized by the ACS-USM, International Student Chapter in conjunction with the Industrial Talk 2022 – Innovation: A Digital Revolution in Research and Development. The talk entitled “Circular and Digital Innovation in Chemistry and Advanced Materials Industry” was presented through virtual platform on 4th June 2022. A total of about 150 participants from various

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Malaysian universities attended the talk. The objective of the talk was to disseminate knowledge and create awareness on the importance of STEM skills in Chemistry amid the fourth industrial revolution and digitalization. The participants were introduced to the transformation from linear Chemistry to Circular Chemistry model with the adoption of digital avenues to foster societal, economic, and environmental sustainability. The webinar concluded with the participants echoing the speaker that Circular Chemistry, digitalization, and open collaboration models are important for a sustainable and free Chemistry 4.0 market in both R&D and chemical manufacturing industry.

### **Official Visit to Kimia Malaysia Pulau Pinang**

Delegates IKMNB made an official visit to KIMIA MALAYSIA Pulau Pinang on 16th June 2022. The IKM team consisted of the Chairman, YBhg. Dato' ChM Dr. Mas Rosemal Hakim bin Mas Haris, Assoc. Prof. ChM. Dr. Nor Aziyah binti Bakhari (Secretary of IKMNB), ChM Marina Mokhtar (Assistant Secretary of IKMNB), Assoc. Prof. ChM Dr. Melati binti Khairuddean (committee member, representative of USM), ChM Dr. Nor Shifa Shuib, representing both IKMNB and KIMIA MALAYSIA Pulau Pinang and ChM Nor Aimi Abdul Wahab (IKMNB member, representative of UiTM). The main aim of the visit was to have a formal meeting with the Director, ChM Sidek bin Ahmad, and discuss collaborative activities.

### **Closing Ceremony of KI2M 2022**

The closing ceremony of KI2M 2022 were held on 1st July 2022, 5:00 pm – 7:30 pm at Hotel UiTM Penang, Permatang Pauh.

### **Meeting and Lunch with the President of IKM**

IKMNB 2022-2023 committee special meeting with Datuk ChM Dr Soon Ting Kueh (President of IKM) was held on 2nd July 2022, 12:00 pm – 2:00 pm (Saturday) at Al-Araby Matha'am Restaurant (Authentic Arabic and Middle Eastern with Asian & Western Cuisine). Dato' Hj. ChM Mohamed Zaini Abdul Rahman was also invited and present in the meeting.

### **Formal Visit to School of Distance Education, USM**

Dato' ChM. Dr. Hj. Mas Rosemal Hakim bin Mas Haris has been appointed as "Panel Luar bagi penawaran program baharu Ijazah Sarjana Muda Sains Gunaan (Kepujian) Kimia Lestari dan Teknologi di Pusat Pengajian Pendidikan Jarak Jauh, Universiti Sains Malaysia". As such, several committee members of IKMNB accompanied Dato' Dr. Mas for a formal meeting held at the School of Distance Education, USM on 29th November 2022.

### **Courtesy Visit to Kimia Malaysia Sabah**

Delegates of IKMNB made a courtesy visit to KIMIA MALAYSIA SABAH on 25th November 2022. The IKM team consisted of the Chairman, YBhg. Dato' ChM Dr. Mas Rosemal Hakim bin Mas Haris, Snr. Assoc. Prof. ChM Dr Kathiresan a/l Sathasivam, ChM Damien Khoo Yiyuan and ChM Dr. Nor Shifa Shuib. Also present was ChM Khairul Hadi bin Haji Abd Raof (Chairman of IKM Perak Branch). Dato' Dr. Mas and the team would like to express their hearty appreciation to YBhg. Tn. ChM Khairuzzaman bin Mustafa (Director of Kimia Malaysia Sabah) for his warmth welcome and commendable hospitality.

### **Malam Kimia 2022**

Several of IKMNB members attended the Malam Kimia Malaysia 2022 to support the recipients of the IKM Citation Award, ChM. Dr. Nor Aziyah binti Bakhari & ChM. Dr. Melati binti Khairuddean, and the recipient of Fellowship Award, ChM. Dr. Kathiresan a/l Sathasivam which was held on 2nd Disember 2022 at One World Hotel, PJ.

## **B2 - IKM SOUTHERN BRANCH**

### **36th Annual General Meeting**

The 36th Annual General Meeting of the Branch was held on 19 March 2022 at Capri by Fraser, Johor Bahru. A total of 17 members attended the meeting. The AGM was officiated by IKM HQ representative ChM. Mr. Chang Hon Fong, who also witnessed the election of the office bearers for the term 2022/2023. The following members were elected as office bearers for the term 2022/2023:

ChM Ms. Yap Fei Ching	Chairman
ChM Dr. Sheela Chandren	Vice Chairman

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ChM Ms. Poo Sher Lin Hon.	Secretary
ChM Dr. Cassy Chong Mun Hwa	Hon. Treasurer
ChM Mr. Soh Ee Shan	Asst. Hon. Secretary
Assoc. Prof. ChM Dr. Mohd Bakri Bakar	Asst. Hon. Treasurer
Assoc. Prof. ChM Dr. Jafariah Jaafar	Committee Member
ChM Dr. Mohd Akmal Bin Mokhter	Committee Member
ChM Ms. Amelia Cheng Guay Neo	Committee Member
ChM Dr. Mohamad Shazwan Shah Jamil	Committee Member
ChM Mr. Tan Teck Ming	Committee Member

The following members were nominated and duly elected as internal auditors:

ChM Mr. Chong Kuek Phin  
ChM Mr. Rajendran A/L M. Subramaniam

During the branch committee meetings, the following were co-opted into the committee:

Assoc. Prof. ChM Dr. See Hong Heng  
Prof. ChM Dr. Zaiton Abdul Majid

The committee also unanimously endorsed to invite ChM Mr. Soh Song Chaw and ChM Mr. Qua Sai Chuan as the committee's advisors.

### **Committee Meetings**

The branch held 4 committee meetings during the term. The dates of the meeting are as follows:

- 1st Committee Meeting - 19th March 2022 (offline meeting)
- 2nd Committee Meeting - 12th April 2022 (virtual meeting)
- 3rd Committee Meeting - 18th May 2022 (offline meeting)
- 4th Committee Meeting - 18th August 2022 (virtual meeting)
- 5th Committee Meeting - 28th December 2022 (virtual meeting)

### **Activities**

#### **Stress Awareness Professional Talk titled "Stress Me Up!" (19 March 2022)**

In conjunction with the 36th AGM, a stress awareness talk titled "Stress Me Up!" was given by Mr. Lee Chung Hau on 19th March 2022 at 9.30am at Capri by Fraser, Johor Bahru. The talk covered the range of stresses that built up, the damaged made to our body & impact to society and ways to overcome the stress. The talk was attended by 25 members and spouses.

#### **IKM Interactive Chemistry Booth for STEM Day 2022 (27-28 August 2022)**

In conjunction to Sambutan Minggu Sains Negara Keluarga Malaysia 2022 (HARI STEM), IKM Southern Branch & Universiti Teknologi Malaysia (UTM) participated in the exhibition/interactive booth for Interactive Chemistry activities. The event started from 8am until 4.30pm on 27th and 28th August 2022 at Pusat Informasi & Pelancongan (TIC), Kota Tinggi Johor. Activities and booths were available to cater to the targeted 2000 visitors, ranging from school students to the public. IKM (S) hosted an interactive chemistry booth during the 2 days' event, where Interactive Chemistry will be theme for the activities, where chemistry related experiments and hands-on demo were carried out. This had served as an excellent platform to promote and introduce chemistry to all walks of life, especially the students from all over Johor.

#### **1-Day Workshop on General QA/QC Procedures for Testing Laboratories (12 September 2022)**

A 1-day workshop on General QA/QC Procedures for Testing Laboratories was held on 12 September 2022 at Grand Paragon Hotel, Johor Bahru. Mr. Yeoh Guan Hua was the trainer for the workshop and a total of 25 participants from the industries attended the course.

#### **2-Day Workshop on Measurement Uncertainty in Chemical Analysis (13-14 September 2022)**

A 2-day workshop on Measurement Uncertainty in Chemical Analysis was held on 13-14 September 2022 at Grand Paragon Hotel, Johor Bahru. Mr. Yeoh Guan Hua was the trainer for the workshop and a total of 25 participants from the industries attended the course.

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### ***IKM Interactive Chemistry Booth for Bulan STEM & TVET, SMK Taman Universiti 2 (21 September 2022)***

In conjunction with Bulan STEM & TVET, IKM Southern Branch & Universiti Teknologi Malaysia (UTM) set up an interactive booth for Chemistry activities. The event took place at SMK Taman Universiti 2 from 9:30 a.m. until 3:30 p.m. on the 21st of September 2022, headed by ChM. Dr. Sheela Chandren. Interactive activities and a booth were available to cater to the 322 secondary school students. Among the activities carried out were Oobleck, Rainbow Drops and Thin Layer Chromatography. This was a great opportunity to spread the word about and introduce chemistry to all the students there.

### ***Experience Sharing Forum on “Seri 2022: Series 1 Share Your Experience: Research & Industrial Training” (10 November 2022)***

This program was organized by JKPP, Department of Chemistry, Faculty of Science, UTM in collaboration with the Malaysian Institute of Chemistry (IKM) Southern Branch, Association of Official Agricultural Chemists Southeast Asia Section (AOAC Southeast Asia), and Universiti Sains Malaysia (USM). This forum, led by ChM. Dr. Sheela Chandren, Vice Chair of the Malaysian Institute of Chemistry (IKM) Southern Branch, together with 3rd - year Chemistry students as the organizing committee, is designed to facilitate early industrial exposure for the students prior to embarking on their Industrial Training and Research Training and involved 3 industry representatives; Mr. Damien Khoo from Bruker Nano Surfaces and Metrology Division, Malaysia, Dr. Hong Hanh Nguyen from IndoChina Center of Excellence, Vietnam, and Dr. XinPing Hou from BV-AQ, Singapore. The challenges and expectations regarding the quality of Malaysia-produced graduates were part of the agenda. Chairman of Malaysian Institute of Chemistry (IKM) Southern Branch, ChM. Rachel Yap Fei Ching and Dr. Qi Lin, Chair of Training of Young Scientists Working Group, AOAC Southeast Asia gave a short opening speech before the officiation of the event by Prof. ChM. Dr. Zaiton Abdul Majid, Dean, Faculty of Science, UTM. A total of 303 participants attended the online event, with 301 undergraduates and postgraduate students from UTM (175), USM (121), UiTM (4) and UKM (1). During the event, apart from the forum, the event was also supplemented with 4 game sessions through the Mentimeter website, where the event became more lively and fun with the presence of students who followed all the games provided on the website. At the end of the forum, 5 lucky students even walked away with RM 30 vouchers each for answering the quiz questions correctly. A wreath of appreciation and thanks goes out to the three industry representatives who have shared their experiences and advice with all the students. Certificates of appreciation were also presented in conjunction with celebrating the panel members. We hope that programs like this can benefit the students to continue polishing the skills needed to prepare themselves for industrial/research training, or even their career, in the future.

### ***IKM (Southern Branch) Academic Excellence Award (22 November 2022)***

This award is given to a Bachelor's Degree graduate who has shown excellent achievement in the field of chemistry. Congratulations to Fong Li Yee for achieving this award and received RM1000 cash prize and a certificate from ChM. Mr. Soh Ee Shan (IKM Southern Branch representative).

### ***IKM Malam Kimia (2 December 2022)***

Malam Kimia & Presentation of IKM Awards 2022 was held on 2 December 2022 at One World Hotel, Kuala Lumpur. Congratulations to Prof. ChM. Dr Zaiton Abdul Majid for the IKM Citation Award 2022.

### ***Appreciation***

The IKM Southern Branch committee (term 2022/2023) wished to express their appreciation to all members, friends from the industries and all those who had in one way or another helped in supporting the functions organized during the current term.

## **B3 - IKM SARAWAK BRANCH**

### ***36<sup>th</sup> IKM Sarawak Annual General Meeting***

IKM Sarawak Branch 36<sup>th</sup> Annual General Meeting (AGM) was held on the 12<sup>th</sup> March 2022 at Grand Margherita Hotel, Kuching, Sarawak. In conjunction with this meeting, a talk entitled 'Discoveries in the rainforest' was given by Dr. Yeo Tiong Chia from Sarawak Biodiversity Centre. The AGM which started at 11.30 am had a total attendance of 25 members. IKM President, Datuk ChM Dr. Soon Ting Kueh, was present and addressed the AGM on matters relating to the activities organized by IKM and the near future plans of IKM. IKM Sarawak Branch

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Chairman, ChM Dr. John Chan briefed summarised the activities over the past year and expressed his gratitude to all the members, in particular the committee members for their commitment and strong support. The following office bearers were duly elected for year 2022/2023:

Chairman	:	ChM Dr. John Chan Sung Tong
Vice Chairman	:	Assoc. Prof. ChM Dr. Sim Siong Fong
Hon. Secretary	:	ChM Hazalinawati Binti Zailani
Hon. Treasurer	:	Assoc. Prof. ChM Dr. Tay Meng Guan
Assist Hon. Secretary	:	ChM Aishah Binti Abdul Aziz
Assist Hon. Treasurer	:	ChM Syafiran bin Imran
Committee Members	:	ChM Dr. Cindy Tan Soo Yun ChM Dr. Lau Seng Prof. ChM Dr. Zainab Binti Ngaini ChM Nur Aida Binti Azman ChM Jong Hui Lan
Internal Auditors	:	ChM Pung Tiong Seng ChM Michelle Crystal Henry

### **Committee Meetings**

Five IKM Sarawak committee meetings have been held as follows: -

Meeting No.	Date	Venue
1	22 <sup>nd</sup> March 2022	Sunnydale Café, Kuching
2	12 <sup>th</sup> April 2022	Telang Usan Hotel, Kuching,
3	24 <sup>th</sup> May 2022	Sunnydale Café, Kuching
4	8 <sup>th</sup> October 2022	Dr. John Chan's residence
5	31 <sup>st</sup> January 2023	Little Thai, Kuching

During the 1<sup>st</sup> IKM Sarawak Branch committee meeting, six IKM members have been appointed as the co-opted committee members. The co-opted members are:

- i. ChM Nigel Lim Poon Teck
- ii. ChM Fakhru Iman bin Mohammad
- iii. ChM Nur An-Nisaa' binti Mohamad Yusoff
- iv. ChM Gerald Grino Anak Apil
- v. ChM Nur Ainiza binti Zakaria
- vi. ChM Mozzarie Shahrayzam Bin Masidi

### **IKM Sarawak Bursary**

IKM Sarawak Bursary amounting RM 2,500 had been awarded to 5 students from 3 secondary schools in Marudi District, Sarawak in 2022. These students were the students from schools who participated in the Karnival Kimia Malaysia (K2M) in SMK Marudi in 2019. The recipients of IKM Bursary consist of Form 5 students studying the Science stream in their respective schools, while the rest of the recipients in 2021 have been graduated from their secondary schools or dropped out of Science stream.

SCHOOL	No. of Students
SMK Long Lama	2
SMK Marudi	1
SMK Telang Usan	2
TOTAL	5

### **IKM Sarawak Family Day**

IKM Sarawak Branch Family Day was held on 30<sup>th</sup> and 31<sup>st</sup> July 2022 at Roxy Hotel, Sematan. 70 IKM members and their family members have joined the event. Interesting and fun activities has been organized throughout the Family Day. Among the activities carried out are family games, flying kites and fellowship dinner. The main objective of this event is to strengthen the network between IKM members and family members.

### **Karnival Kimia Malaysia (K2M) 2022**



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IKM Sarawak had organized the Karnival Kimia Malaysia (K2M) 2022 on 22<sup>nd</sup> September 2022 at SK Long Bedian, Miri, Sarawak. The carnival has been officiated by Mr. Baru Tai, District officer of Telang Usan, representing YB Encik Dennis Ngau, Sarawak State Assembly Member (N.77 Telang Usan). During the one-day carnival, interesting activities have been carried out which includes informative talks by ChM Dr. Lau Seng (Universiti Malaysia Sarawak) and ChM Aishah binti Abdul Aziz (Sarawak State Department of Chemistry, Malaysia). Experimentation activities facilitated by ChM Nur Ainiza binti Zakaria and science festival facilitated by ChM Syafiran bin Imran were held simultaneously together with sharing and demonstration session of composting by Encik Burhannudin Suai from Natural Resources and Environment Board Sarawak. The Rotary Club of Kuching with the sponsorship from Sarawak Oil Palms Berhad also participated by providing free eye screening to students and community and supplied free spectacles to those in need. The health screening for the community also carried out at the *Dewan Serbaguna* Long Bedian with the support by Long Bedian Health Clinic. Positive feedbacks were received from the students, teachers and community involved and they hope that this program will be continued to enhance the interest of rural students in science and chemistry.

### ***Joint IKM Sarawak Branch and IKM Sabah & F.T. Labuan Branch Committee Meeting 2022***

The joint meeting was held on 19<sup>th</sup> December 2022 at the Telang Usan Hotel, Kuching. The meeting was attended by IKM President, Datuk ChM Dr. Soon Ting Kueh, IKM Sarawak Branch Chairman, ChM Dr. John Chan and IKM Sabah & F.T. Labuan Branch Chairman, ChM Dr. Jenny Lee Nyuk Len together with IKM Sarawak and Sabah & F.T. Labuan Branch committee members. The objective of the meeting is to discuss on the collaboration of the two branches in organizing future courses and seminars. Datuk ChM Dr. Soon Ting Kueh has updated the committees on the latest IKM activities related to the branches and he also responded to few issues from the two branches.

### ***IKM Sarawak Branch Chemistry Night 2022***

IKM Sarawak Chemistry Night 2022 was held on 20<sup>th</sup> of December 2022 at Borneo Convention Centre Kuching (BCCK), Kuching, Sarawak. The event was inaugurated by YB Dato Sri Professor Dr. Sim Kui Hian, Deputy Premier of Sarawak. IKM President, Datuk ChM Dr. Soon Ting Kueh, was also present together with IKM Sabah & F.T. Labuan Branch Chairman, ChM Dr. Jenny Lee Nyuk Len. The chemistry night has also received the presence of the representative from 10 professional bodies in Sarawak, IKM Sarawak Branch committee members, IKM Sabah & F.T. Labuan Branch committee members, IKM members, families and friends. The highlight of the event was the appointment of the IKM Sarawak Sub-Committee Chairs for Sibul, Bintulu and Miri regions which are ChM Mozzarie Shahrizam Bin Masidi (Sibul Region), ChM Dr. Sivasangar a/l Seenivasagam (Bintulu Region) and ChM Alvin Bong Chee Hong (Miri Region). Subsequently, the presentation of Merit Awards to the best chemistry achievers in SPM, STPM/ Matriculation, Bachelor Degree, Master Degree and Doctor of Philosophy were also held in conjunction with the dinner. The night was further enlivened with dance and singing performances from IKM members. With the theme of "Cultural Chemistry", this event aims to bring together Chemists from all walks of life to meet, network and strengthen relationships.

### ***IKM Sarawak Training***

#### ***Understanding the Elements of MS ISO/IEC 17025:2017 Workshop***

The 2-days workshop was facilitated by ChM Lorraine Jong Hui Lan and ChM Nur An-Nisaa' binti Mohamad Yusoff on 18<sup>th</sup> and 19<sup>th</sup> August 2022 at Chemsain Building, Kuching. 6 participants from various agencies have attended the workshop. The aim of the workshop was to provide participants with the understanding the MS ISO/IEC 17025:2017.

#### ***Workshop on Analytical Skills for Laboratory Technicians***

The workshop was conducted on 6<sup>th</sup> and 7<sup>th</sup> September 2022 at Faculty of Resource Science and Technology, Universiti Malaysia Sarawak (UNIMAS), Kota Samarahan and attended by 19 participants from various agencies. The workshop has been coordinated by ChM Syafiran Bin Imran and facilitated by Prof. ChM Dr. Zainab Ngaini. The 2-days workshop covers classroom theory, discussion and hands-on laboratory sessions with the purpose to provide theoretical and practical skills for laboratory technician.

#### ***Measurement Uncertainties: A Step by Step Approach Using Microsoft Excel***

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The 2-days workshop was conducted on 7<sup>th</sup> and 8<sup>th</sup> September 2022 using online mode which coordinated by ChM Nur Ainiza Binti Zakaria and facilitated by Assoc. Prof. ChM Dr. Sim Siong Fong. The workshop was attended by 14 participants from various departments and agencies. The purpose of this workshop was to provide participants with the fundamental and calculations of data analysis using Microsoft Excel.

### ***Statistic for Data Analysis Using Microsoft Excel***

The workshop was conducted on 17<sup>th</sup> and 18<sup>th</sup> October 2022 using online mode. Coordinated by ChM Syafiran Bin Imran and facilitated by Assoc. Prof. ChM Dr. Sim Siong Fong, the workshop was attended by 10 participants from various agencies. The objective of this workshop was to provide participants with the fundamental and calculations of measurement uncertainties using Microsoft Excel.

### ***Personal Development Workshop on Power Presentation***

The personal development 2-days workshop was conducted on 23<sup>rd</sup> and 24<sup>th</sup> November 2022 at Chemsain Building, Kuching facilitated by Mr. Dunstan Chan, an established personal development consultant. The workshop was coordinated by ChM Nigel Lim Poon Teck and assisted by ChM Gerald Grino Anak Apil and ChM Fakhru Iman bin Mohammad. It was attended by 23 Chemists and other professionals from various agencies. The workshop aims to create impactful presentations efficiently, a well-planned and well-delivered presentation, facilitates effective communication and efficient reporting and better understanding of ideas.

### ***Upcoming Activities***

#### ***IKM Sarawak Branch 37<sup>th</sup> Annual General Meeting (AGM)***

The 37<sup>th</sup> AGM is scheduled to be organized on 25<sup>th</sup> February 2023 at the Rafflesia Room, Chemsain Building, Kuching, Sarawak. A pre-AGM talk entitled 'Greenhouse Gas Reduction Initiatives in The Oil & Gas Industry' will be presented by an invited speaker, Ms. Mariana Michael.

### ***Conclusion***

The year 2022/2023 was another successful year for IKM Sarawak Branch with many activities was organized with the commitment and dedication of all committee members. IKM Sarawak Branch believes that all the activities will give positive impacts on the development of Chemistry in particular and Science in general.

## **B4 - IKM SABAH & FT LABUAN BRANCH**

### ***29<sup>th</sup> Annual General Meeting***

Date: 19<sup>th</sup> March 2022

Magellan Sutera Resort, Kota Kinabalu, Sabah

23 members attended the 29<sup>th</sup> AGM. During the meeting, standing committee members for the term 2021/2022 relinquished their posts. Subsequently, the new committee members for term 2022/2023 were elected as follows;

Chairman	: ChM Dr Jenny Lee Nyuk Len
Vice Chairman	: Assoc. Prof ChM Dr Moh Pak Yan
Honorary Secretary	: ChM Debbie Annabell Peter
Honorary Treasurer	: ChM Robinetta Joyce Malangkig
Honorary Asst. Secretary	: ChM Suzanna J. Rice Oxley
Committee members	: ChM Siti Fatimah binti Dek ChM Dr Stella Ho Yen Ling Prof Madya ChM Dr Collin G. Joseph ChM Dr Julenah binti A.G Nuddin ChM Doreen Benjamin Assoc. Prof Ts ChM Dr Mohd Sani Sarjadi
Internal Auditors	: ChM Jessieca Junas ChM Patrick Wong

### ***Committee Meetings***

- There were four committee meeting held this year. Meetings were held on;
- 19th March 2022 at Magellan Sutera Harbour, Kota Kinabalu with 11 attendees.
- 20th April 2022 at Magellan Sutera Harbour, Kota Kinabalu with 10 attendees.
- 2nd September 2022 at Venitian Club, Kota Kinabalu with 11 attendees.

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- 29th November 2022 at Venition Club, Kota Kinabalu with 10 attendees.

### **Activities**

#### **Course 1: Workshop on Laboratory Safety**

Date: 13th -14th July 2022 Pan Pacific, Sutera Harbour Resort, Kota Kinabalu

29 participants attended the 2-day course. The course was presented by Assoc. Prof ChM Dr Moh Pak Yan.

#### **Course 2: In-house training for “Workshop on Laboratory Safety” for Hap Seng Plantations, Lahad Datu**

Date: 5th - 6th September 2022 Hap Seng Plantations, Lahad Datu

29 participants attended the 2-day course. The course was presented by Assoc. Prof ChM Dr Moh Pak Yan. The course content is similar to the public workshop conducted in July 2022.

#### **Course 3: Workshop on Laboratory Analytical Techniques**

Date: 19th - 20th September 2022 Magellan Sutera Harbour, Resort, Kota Kinabalu

The course was presented by Assoc. Prof ChM Dr Sim Siong Fong

#### **Course 4: Workshop on DOE 4th Edition Standard Methods for analysis of rubber and palm oil effluent**

Date: 17th - 18th October 2022 Shang-ri La Tanjung Aru Resort, Kota Kinabalu

The course was presented by ChM Dr. Malarvili Ramalingam

#### **IKM Sarawak & IKM Sabah & FT Labuan Joint Committee Meeting**

Date: 19th December 2022 Kuching, Sarawak

A joint meeting between IKM Sarawak and IKM Sabah & FT Labuan were conducted to discuss on future collaboration between these two branches. The meeting was also joined by IKM President, Datuk ChM Dr Soon Ting Kueh.

## **B5 - IKM PERAK BRANCH**

### **27<sup>th</sup> Annual General Meeting**

The 27<sup>th</sup> Annual General Meeting of IKM Perak Branch was held at Travelodge Hotel Ipoh 3.00 pm on Saturday, 19<sup>th</sup> March 2022. A total of 19 members attended this meeting. Datin ChM Dr Zuriati Zakaria (IKM Vice President) representing the IKM President, officiated the AGM. The following members were elected to the Branch Committee for the year 2022/2023.

Chairman	:	ChM Khairul Hadi Bin Haji Abd Raof
Vice-Chairman	:	ChM Dr Hayyiratul Fatimah Mohd Zaid
Hon. Secretary	:	ChM Chon Huey Chian
Hon. Treasurer	:	ChM Dr Wong Lai Peng
Asst. Hon. Secretary	:	ChM Dr Mazlin Binti Mohideen
Asst. Hon. Treasurer	:	ChM Ng Choon Heng
Members	:	ChM Yong Pui San Assoc. Prof. ChM Dr Lam Sze Mun ChM Tai Wen Xi Assoc. Prof. ChM Dr Sin Jin Chung ChM Jocelyn Agnes Lazarus
Hon. Internal Auditors	:	ChM Rosmawati Shaharuddin ChM Amar Singh s/o Banta Singh

### **Committee Meetings**

7 committee meetings were held at Meeting Room, Jabatan Kimia Perak. Ms Komathy a/p Veerasinghan was joined as Co-opted Member start from 3<sup>rd</sup> committee meetings. She will be in charge to liaise matters with Jabatan Pendidikan Negeri Perak and schools for IKM Perak Branch outreach program

<u>Comm. Meeting No.</u>	<u>Date</u>
1/2022-2023	03.06.2022
2/2022-2023	01.07.2022
3/2022-2023	05.08.2022

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4/2022-2023	26.08.2022
5/2022-2023	23.09.2022
6/2022-2023	14.10.2022
7/2022-2023	05.01.2023

### **Activities**

#### **Educational Visit**

Educational Visit to Hovid Bhd (Chemor) was successfully held on 09<sup>th</sup> August 2022. There was a total of 15 participants in the visit.

#### **Social Night**

Social Night at Restaurant Hadramout Paradise Ipoh was successfully held on 15<sup>th</sup> September 2022. There was a total of 36 participants attended.

#### **Outreach**

3rd Karnival Kimia Malaysia (K2M) and 9th Professor Goh Lai Yoong Challenge Trophy Perak Inter-School 6th Form Chemistry Quiz was successfully held on 01st October 2022 at UTAR Kampar. There was a total of 19 schools participated in the event and around 100 participants include teachers and students were in the event.

#### **Workshop**

Workshop on Understanding the Elements of MS ISO/IEC 17025:2017 was cancelled due to lack of participants.

#### **IKM Perak Branch 28<sup>th</sup> Annual General Meeting**

It was agreed to have IKM Perak Branch 28<sup>th</sup> Annual General Meeting on 11th March 2023.

### **B6 - IKM TERENGGANU BRANCH**

#### **The 26<sup>th</sup> IKMTB Annual General Meeting**

IKMTB (Terengganu Branch) held its 26<sup>th</sup> AGM on 12<sup>th</sup> March 2022 at Felda Residence Kuala Terengganu. A total of 26 members attended with 15 physical attendances and 11 members attended online. This AGM was officiated by ChM Dr Malarvili Ramalingam and chaired by ChM Teo Chook Kiong. Chairman expressed his appreciation to all members and particularly the committee members for their commitment and dedication.

#### **Committee Members for 2022/2023**

At the 26<sup>th</sup> AGM, the following committee members have been duly elected for term 2022/2023:

Chairman	: ChM. Teo Chook Kiong
Vice Chairman	: ChM. Noor Dina Ali
Honorary Secretary	: ChM. Dr. Salmiah Jamal Mat Rosid
Honorary Treasurer	: ChM. Mohd Shafizi Ab Aziz
Assist Hon. Secretary	: ChM. Wan Nur Amalina Wan Mamat
Assist Hon. Treasurer	: ChM. Mohd Fajariatudin Mustaffa
Committee Members	: Assoc. Prof. ChM. Dr. Kamarul 'Ain Mustafa Assoc. Prof. ChM. Dr. Mohd Aidil Adhha Abdullah ChM. Radi Hairil Mat Jusoh @ Ramli ChM. Mohammad Sabri Yaacob ChM. Emillia Kimlon
Co-opted Members	: ChM. Muhammad Abi Shahidam Shafei@Safein ChM. Mohammad Azhar Mat Zin ChM. Rahayu Hussin ChM. Nurzuhrah Hassan
Internal Auditor	: ChM. Shamsilawati Mustafar ChM. Dr. Azrilawani Ahmad

#### **Committee Meetings**

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A total of 4 committee meetings were held between April 2022 to December 2022, as follows:

Meeting No.	Date	Venue
1/2022	04/02/2022	Bilik Mesyuarat, JKM Terengganu
2/2022	06/18/2022	Bilik Mesyuarat, JKM Terengganu
3/2022	08/20/2022	Bilik Mesyuarat, JKM Terengganu
4/2022	11/12/2022	Cisco Webex (Online)
5/2022	14/01/2023	Bilik Mesyuarat, JKM Terengganu

### **Activities**

#### **2 days Course on Basic Laboratory Skills and Techniques**

Institut Kimia Malaysia Terengganu Branch (IKMTB) has organized course Basic Laboratory Skills and Techniques on 28-29 August 2022 at The Qamar, Paka, Terengganu. This course was conducted by IKM professional trainer, Prof. ChM Dr. Sharon Teh Geok Bee with 20 participations mainly from SGS Sdn. Bhd.

#### **2 days Course on MS ISO/IEC 17025:2017 Management System Internal Auditing**

Institut Kimia Malaysia Terengganu Branch (IKMTB) will organize course MS ISO/IEC 17025:2017 Management System Internal Auditing on 31 Jan – 1 Feb 2023 at Hatten Hotel, Melaka and 20-21 Feb 2023 at The Qamar, Paka, Terengganu. This course will be conducted by IKM professional trainer, ChM Pua Hiang with 20 participations.

#### **Program Jelajah Aspirasi Keluarga Malaysia**

On 2nd of June 2022, Institut Kimia Malaysia Terengganu Branch (IKMTB) was invited to participate “Jelajah Aspirasi Keluarga Malaysia at Kompleks Sukan Negeri Terengganu, Kuala Nerus, Terengganu. IKMTB represented by ChM Teo Chook Kiong, Assoc. Prof. ChM. Dr. Mohd Aidil Adhha Abdullah, ChM. Nurzuhrah Hassan, ChM. Noor Dina Ali and ChM. Mohd ShaFizi Ab Aziz. This exhibition was placed under MOSTI as a part of government program to promote and attract public about science education and science grant that can be applied. IKMTB took opportunity to introduce IKM to public and its professionalism in chemistry towards sustainable socio-economic development of the nation. IKM booth has been visited by Minister and Deputy Minister of MOSTI.

#### **Karnival Kimia Malaysia (K2M)**

On 16 October 2022, the Malaysian Institute of Chemistry Terengganu Branch (IKMTB) organized the Malaysian Chemistry Carnival (K2M) program held at Sekolah Menengah Kebangsaan (SMK) Tengku Mahmud Besut. This K2M program is an annual event conducted throughout Malaysia as one of the professional contributions to the local community. The objectives of this program are to attract students' interest in science starting from the elementary (secondary) level and introduce branches of science, especially the subject of Chemistry, to high school students through science demonstrations and experiments. This program has received full support from the Terengganu State Education Department (JPNT) and the Besut District Education Office (PPD). Ms Hjh Nazilan bt Md Salleh as SISC, Science and Mathematics Officer, PPD Besut helped a lot in making this program a success by managing the involvement of 400 students from 10 schools around Besut. This program was officiated by the Besut District Deputy Education Officer, Mr. Zuraidi bin Wahid and attended by 12 IKMTB members namely ChM. Teo Chook Kiong, ChM. Noor Dina Ali, ChM. Dr. Salmiah Jamal Mat Rosid, ChM. Mohd Shafizi Ab Aziz, ChM. Wan Nur Amalina Wan Mamat, ChM. Mohd Fajariatudin Mustaffa, Assoc. Prof. ChM. Dr. Mohd Aidil Adha Abdullah, ChM. Radi Hairil Mat Jusoh @ Ramli, ChM. Mohammad Sabri Yaacob, ChM. Emilia Kimlon, ChM. Nurzuhrah Hassan and ChM. Dr. Nurul Najidah Mohamed.

#### **Appreciation Night or Family Day**

An appreciation night or family day will be organized by IKMTB to appreciate committee members' contribution and build a good network of professional among chemists in Terengganu. The confirmation either appreciation night or family day planned in February 2023 will be discussed and finalized in the 5<sup>th</sup> IKMTB Committee Meeting.

#### **The 27<sup>th</sup> IKMTB Annual General Meeting (AGM)**

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The 27<sup>th</sup> IKMTB Annual General Meeting (AGM) to be held on 25 February 2023 and IKM HQ representative is invited to officiate the event. Details of AGM itinerary and venue will be discussed in the 5<sup>th</sup> IKMTB Committee Meeting.

### **B7 - IKM PAHANG BRANCH**

#### ***Committee Members for 2022/2023***

Advisor	ChM Shafek Hamlan Bin Abdul Hamid
Chairman	ChM Dr Awis Sukarni Bin Mohmad Sabere
Vice Chairman	ChM Zarida Binti Zahari
Honorary Secretary	Assoc. Prof ChM Dr Hazrulrizawati Abd Hamid
Assist. Hon. Secretary	ChM Dr Faridah Binti Marsin
Honorary Treasurer	ChM Ng Boon Hong
Assist. Hon. Treasurer	ChM Dr Saiful Arifin Bin Shafiee
Committee Members	Prof ChM Dr Chong Kwok Feng Assoc. Prof ChM Dr A. B.M. Helal Uddin ChM Aw Wai Boon ChM Nuradlina Binti Abd Rahim
Co-opted Members	ChM Syed Syazwan Sadly Bin Syed Salleh Prof ChM Dr Shafida Binti Abdul Hamid ChM Wan Ahmad Ashadi Bin Wan Mohd Kamil ChM Aznor Bin Yahya ChM Dr Norshahidatul Akmar Binti Mohd Shohaimi
Internal Auditors	ChM Norul Naziraa Binti Ahmad Jamlus ChM Muhammad Fidrus Bin Abdul Hamid ChM Suraini Binti Mat Yasin

#### ***Committee Meetings***

- 1<sup>st</sup> Meeting - 9<sup>th</sup> March 2022 (online)
- 2<sup>nd</sup> Meeting - 18<sup>th</sup> May 2022 (online)
- 3<sup>rd</sup> Meeting - 19<sup>th</sup> July 2022 (online)
- 4<sup>th</sup> Meeting - 15<sup>th</sup> September 2022 (Hybrid-F2F and online)
- 5<sup>th</sup> Meeting - 16<sup>th</sup> November 2022 (online)
- 6<sup>th</sup> meeting - 11<sup>th</sup> January 2023
- AGM - 11<sup>th</sup> March 2023

#### ***Activities***

##### ***Science and Chemistry Exhibition***

The exhibitions held on 2<sup>nd</sup> June (SK Bukit Sekilau), 26<sup>th</sup> July (SK Balok Baru) and 26<sup>th</sup> November 2022 targeted primary students in Kuantan, Pahang. The activities were considered a success as the organizers received positive feedbacks from the students and teachers.

##### ***Public Awareness Talk***

28<sup>th</sup> September 2022

Mode: (<https://meet.google.com/hbs-akqe-rpw>)

Speaker: Assoc. Prof. Dr. Mohd Muzamir Mahat

Title: Battery Recycling: Materials Science Perspective

Successfully conducted with total numbers of 31 participants from universities and industries.

##### ***Chemist Career Talk 2022, Kick Start Your Future***

Date: 29<sup>th</sup> October 2022

Mode: Online

Collaboration: IKMPB, ACS IIUMK, ACS UMP, UiTM Jengka and NIOSH

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There were six speakers who shared their experience and knowledge in their respective fields during the morning session. ChM. Shafek Hamlan Bin Abdul Hamid who is the current Director of Jabatan Kimia Malaysia Negeri Pahang gave a talk on "Government Sector: Why Is It Hard to Get into It?". Subsequently, ChM. Dr. Chin Teen Teen shared her experience in managing ALS Technichem (M) Sdn. Bhd. as the General Manager. ChM. Syed Syazwan Sadly Bin Syed Salleh also shared his experience on the opportunities and challenges working in the industry as a chemist. Meanwhile, Assoc. Prof. ChM. Dr. Hazrulrizawati Abd Hamid who is currently a senior lecturer at UMP and previously was a teacher shared her knowledge on becoming an educator. For those who would like to become a full time or part time consultant, Mr Daud Bin Adam who is a NIOSH representative shared some information on becoming chemical health risk assessors and indoor air quality assessors. It is undeniable that some may wish to further their study. Therefore, Mr Muhammad Idham Bin Shukor who is currently a doctoral fellow at IIUM offers some insights of becoming a postgraduate student. The evening session was continued with a workshop on making resume and developing personal branding on LinkedIn which was conducted by Ahmad Nizam who is currently a Human Resource Manager and social media content creator. There were 144 participants who happily joined this event. This event has received many positive feedbacks from the participants.

### **3<sup>rd</sup> IKMPB Symposium 2023 (updated 2 Jan 2023)**

Date: 28<sup>th</sup> January 2023

Mode: Online

Participant: Currently submitted abstract 28 participants

The deadline for abstract submissions was 25<sup>th</sup> November 2022 (after extension). The acceptance letter is being sent. Later, work on the abstract book, symposium preparation, and full paper submission will begin.

### **Professional Certificate Training IKM-UMP**

The training was successfully conducted for two groups of 60 fourth year undergraduates Industrial Chemistry on 28th Nov – 1st Dec 2022 and 12-15th Dec 2022. The trainers were from IKM HQ giving the talk related to the modules as below -

*Module 1: Management of Chemicals & Chemical/Lab Wastes (MCCW)*

*ChM Dr Malarvili Ramalingam*

*28th November (Monday) - 1st December 2022 (Thursday)*

*Module 2: Chemical Safety and Security (CSS)*

*Datin ChM Dr Zuriati Zakaria*

*12th December (Monday) - 15th December 2022 (Thursday)*

*Module 3: Statistical Analysis for Chemist (BSM)*

*Prof ChM Dr Sharon Teh Geok Bee*

*12th December (Monday) - 15th December 2022 (Thursday)*

The training received positive feedback from the participants and achieved its objectives to provide extra knowledge related to real job applications and they had been awarded with 3 certificates for 3 modules.

## **VII: ACTIVITIES OF DIVISIONS & COMMITTEES**

111. The various Divisions and Committees of IKM organized the following activities during the year.

### **D1 - DIVISION OF INORGANIC & BIOINORGANIC CHEMISTRY**

Members of the Division are:

Prof. Dr. Yang Farina Abdul Aziz	(UKM) (Chairperson)
ChM Dr. Nurul Huda Abd. Karim	(UKM) (Co-Chairperson)
ChM Assoc Prof. Dr. New Siu Yee	(UNM)
ChM Dr. Nur Hasyareeda Hassan	(UKM)
ChM Prof Dr. Phang Sook Wai	(TARUMT)
Assoc Prof. Dr. Siti Fairus Mohd Yusoff	(UKM)
Dr. Nur Nadia Dzulkifli	(UiTM)

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Assoc Prof. Dr. Tan Kong Wai	(UM)
ChM Assoc Prof. Dr. Ng Chew Hee	(IMU)
ChM Dr. Tan Siew San	(TARUMT)
ChM Dr. Azizul Hakim Bin Lahuri	(UPM)
ChM Dr. Shahrul Nizam Ahmad	(UiTM)
ChM Assoc Prof. Dr. Collin G. Joseph	(UMS)
Dr. Mohamad Azuwa Mohamed	(UKM)

### **Activities**

#### ***Inorganic & Bioinorganic Chemistry Webinar Series 2022***

- Rational Design of Anion Receptors: Advances and Challenges by Assoc Prof. ChM Dr. Maisara Abdul Kadir from Universiti Malaysia Terengganu (UMT) on 29th June 2022; Total participants = 66.
- The World of Chemistry on Postage Stamps by Prof. Dr. Daniel Rabinovich from the Joint School of Nanoscience and Nanoengineering Greensboro, North Carolina, USA on 18th August 2022; Total participants = 33.

#### ***AsBIC12 Bidding at AsBIC10 2022***

The Asian Biological Inorganic Conference (AsBIC) conference addresses important issues at the forefront of biological inorganic chemistry, with a special emphasis on the developments coming out of the Asian Pacific region. The conference aims to bring together leading academic scientists, researchers, and scholars from the Asian-Pacific region and worldwide to exchange and share their experiences and research results on all aspects of Biological and Inorganic Chemistry. It also provides a premier interdisciplinary platform for researchers, practitioners, and educators to present and discuss the most recent innovations, trends, and concerns, as well as practical challenges encountered, and solutions adopted in the fields of Biological Inorganic Chemistry. The conference is held biyearly. The AsBIC Steering Committee's role is to promote the research area in the region, link with the Society of Biological Inorganic Chemistry (SBIC), decide on the organizers and location of the upcoming AsBIC meetings, and select the AsBIC award winners. Institut Kimia Malaysia, or IKM, is keen to organize the 12th Asian Bioinorganic Chemistry Conference, AsBIC 12, in Kuala Lumpur, Malaysia, in 2026. Two Asian Biological Inorganic Chemistry (AsBIC) committee members (Assoc Prof ChM. Dr. Ng Chew Hee and ChM. Dr. Nurul Huda Abd Karim) from the Division of Inorganic and Bioinorganic Chemistry, IKM were sent to the 10th Asian Biological Inorganic Chemistry Conference (AsBIC10) to represent Institut Kimia Malaysia (IKM) for the bidding. AsBIC10 was held from 28 November to 3 December 2022 at Kobe Convention Center, Kobe, Japan. The six days' conferences comprised 10 plenary sessions, 33 keynote sessions, 5 award lectures, and 99 invited sessions. Assoc Prof ChM Dr. Ng was also one of the invited speakers; meanwhile, ChM Dr. Nurul Huda presented a poster. The bidding presentation was held on the second day of the conference. The two countries that bid to host AsBIC in 2026 are Malaysia and India. Each country was requested to present in front of the AsBIC steering committee. Prof Dr. Vince Pecoraro from the University of Michigan, the past president of the Society of Biological Inorganic Chemistry (SBIC), was also present. For the bidding, India was represented by Prof Abhishek Dey from the Indian Association for the Cultivation of Science. On the other hand, Malaysia's bidding presentation was delivered by Dr. Nurul Huda Abd Karim. Malaysia's delegate handed the committee hard copies of the proposal, brochure, and batik souvenir. Unfortunately, Malaysia lost the bid to India. India will host the AsBIC12 in Jaipur, India, on 14-18 December 2026.

### **D2 - DIVISION OF ANALYTICAL CHEMISTRY**

#### ***Division Members for 2022/2023***

Dr. Malarvili Ramalingam	(Chairman)	JKM
Dr Chin Teen Teen	(Co-Chairman)	ALS Technichem (M) Sdn Bhd
Mrs. Jamilah Karim	(Secretary)	NAHRIM
Dr. Nurfaizah Abu Tahrim		UKM
Dr. Tan Ming Yueh		TARUMT
Dr Low May Lee		IMU
Mrs. Nabila Ghazali		Pengurusan Air Selangor Sdn. Bhd



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Mr. Saiful Anuar bin Mohd Kesah                      JKM  
Mrs Siti Mastura binti Mohamed                      JKM

### **Activities**

#### **Webinar: Expert Sharing Session during the IMU Virtual Pharmaceutical Chemistry Week 2022**

- Venue: Zoom (online)
- Date: 20 August 2022
- Time: 3.00-4.00 pm
- Participant: Department of Pharmaceutical Chemistry, School of Pharmacy Students
- Number of participants: 45
- Title: Roles of a Forensic Chemist in Kimia Malaysia
- Presenter: Dr Saravana Kumar Jayaram (Department of Chemistry Malaysia, HQ)

#### **Science Workshop: The fun of studying science: We learn, we understand and we apply**

- Venue: Hua Lian High School Taiping, Perak
- Date: 25 November 2022
- Time: 1.00-3.00 pm
- Participant: Hua Lian High School Secondary Students
- Number of participants: 63
- Scope: Two experiments (Traffic Light Experiment and Red Cabbage pH Indicator)
- Led by: Dr. Tan Ming Yueh (TAR UC)

#### **A Visit to Petronas Research Sdn Bhd.**

- Venue: Petronas Research Sdn Bhd, Kajang, Selangor
- Date: 13 December 2022
- Time: 3.00-4.30 pm
- Participant: IKM members from government agencies, corporate agencies and local universities
- Number of participants: 14
- Scope: Research, Development & commercialization
- Acknowledged by: Mrs. Nurida Mohd Yusop (Petronas Research Sdn Bhd)

### **D3 - DIVISION OF ORGANIC & BIOMOLECULAR CHEMISTRY**

Members of the Division are:

Datin ChM Dr Zuriati Zakaria	(Chairperson)	IKM
ChM Dr Fatimah Salim	(Secretary)	UiTM
Em. Prof Dato ChM Dr Laily bin Din		ASM
Prof Dr Mukram Mackeen		UKM
Prof ChM Dr Khozirah Shaari		UPM
Prof ChM Dr Nor Hadiani Ismail		UiTM
ChM Dr Nor Azah binti Mohd Ali		FRIM
Prof Madya ChM Dr Jalifah Latip		UKM
Prof Madya ChM Dr Cheng Sit Foon		UM
ChM Dr Yeun-Mun Choo		UM
ChM Dr Nurul Izzaty Hassan		UKM
ChM Dr Rozida Mohd Khalid		UKM

### **Division Meetings**

The Committee had 1 online meeting on 7 April 2022. About three informal meetings were also held to discuss the activities.

### **Activities**

#### **Infographic Competition 2022: Organic Chemistry in Daily Life**

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This program was organised by the Organic and Biomolecular Chemistry Division, Institut Kimia Malaysia, and the Department of Chemistry, Pusat Asasi Universiti Teknologi MARA (UiTM) with the support of Pusat STEM Negara. The committee is as follows

Advisor : Datin ChM Dr Zuriati Zakaria (IKM)  
Chair : ChM Dr Fatimah Salim (IKM, UiTM)  
Registration : Dr. Aisyah Salihah binti Kamarozaman (Asasi UiTM)  
Publicity & media : Noorazlina binti Adnan (Asasi UiTM), Syed Abdul Illah Alyahya bin Syed Abd Kadir (Asasi UiTM)  
Judging : ChM Dr Rozida Mohd Khalid (IKM), Dr. Nik Norziehana binti Che Isa (Asasi UiTM)

With aims to polish creativity, diversify the understanding of organic chemistry application in daily life, and structure the judging process, the participants were guided with various fields of organic chemistry including food chemistry, agriculture, medicines, biopolymer, petrochemical, oleochemical, environmental, and others. The participants were encouraged to include at least one of the 17 Sustainable Development Goals (SDG) in their infographic. The competition offered three categories of participants which were Junior (form 4, 5 & STPM/Pre-U), Undergraduate (diploma & degree), and Postgraduate (master & PhD). The entrance for each category was of an individual or team of maximum 3 people. No entrance fee was imposed. The promotional material was disseminated within three months (20 December 2021 – 15 March 2022) to give ample time to the participants to prepare their infographic. For category Junior, the information was officially distributed by Pusat STEM Negara to schools in all 13 states and 3 Wilayah Persekutuan through Jabatan Pendidikan Negeri. Promotion to reach the participants from the other two categories (undergraduate and postgraduate) were done through IKM website, social media platforms, and academic networking. Guideline on the format and content of the infographic was provided and the submission was through a Google Drive link. A total of 761 participations where 639, 103, and 21 were from Junior, Undergraduate, and Postgraduate categories, respectively. After the internal screening, 581 posters were selected for the judging process where 50 judges from different backgrounds were appointed. Each poster was judged by at least two judges which were assigned based on their field of expertise. A judging rubric was also provided. Of these, best posters from each category were subjected to the final stage of judging for the section of THREE best posters from each category. This was conducted within Organic Division committee members. Top three winners from each category were awarded E-Certificate and Cash Prize. Consolation prize winners were given winning E-certificate, and all participations were given E-certificate of participation. The winners with their infographic title for each category are as follows;

### *Junior Category*

- 1<sup>st</sup> Najatul Sarafinaz binti Bashir – The Chemistry of Pineapple
- 2<sup>nd</sup> Muhammad Fauzi Syahmi & Ilham Nur – At a Glance of Essential Oils
- 3<sup>rd</sup> Aida Yusrina binti Saleh – UiTM Dengkil – The Science of Cooking

### *Consolation Prize*

- Zulkifli bin Salehudin - Organic Chemistry in Medication: Natural vs Synthetic
- Faradina bt Shahrum – Tobacco
- Anne Hizelda & Anne Hazelin - Organic Chemistry in Compost Fertilizer
- Nur Farin Farhana Mohd Fazli - Organic Chemistry in Donuts
- Liew En Yi & Choong Kai Qi - Soap: Oleochemistry
- Franklin Chai Jun - Life of a Wheat
- Nurainin Sofea bt Ismaad - Lavender: Linalyl Acetate
- Siti Nur Aisyah binti Jamil - Say Goodbye to Toothache with Clove!
- Soufe Danieal - Lactic Acid
- Nur Athilah Akma binti Abd Malek & Nur Humairah binti Kamal - Essential Oils
- Nur Qamarina Hikmah binti Mohd Zahari - The Chemistry of Apricot
- Nurain Izzati binti Azlal - Perfume
- Hazeline Bulan Roland Njok & Benesia Nyala Anak Beles - Defeat the Virus
- Auni Fatinah binti Nor Hasnan, Haziqah Natrah binti Wahab & Kirtana Saralin A/P Noel Devan - Chemistry: The Unparalleled Foodie)

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- Low Yi Yi & Chan Xiu Zhi - Oleochemistry in Organic Chemistry
- Falisyaa Adeeba, Nur Dayana Sofiyah & Nur Farzana Amani - Agricultural Chemistry: Zero Hunger?
- Halimatul Nadhirah binti Mohd Nasir, Indah Nurani binti MD Aris & Liyana Batrisyia binti Azmi - Soap: The Cleaning Agent
- Haifaa Afrina, Haifaa Aleeya & Nur Alisyaa - Food Preservatives

### *Undergraduate Category*

- 1<sup>st</sup> Theng Jin Ye and Wang Hao Wei – Agronomic Potential of Plants VOCs
- 2<sup>nd</sup> Ong Jun Du – Chemistry Behind Honey
- 3<sup>rd</sup> Lau Thorng En – Microplastics Around Us: Are We Aware?

### *Consolation Prize*

- Khairunnisa Gulamnabi - Natural vs Synthetic Anticancer
- Eye Mariel Marius, Ernie Leslie AK Julian & Lydiana Angela Kinta AK Jagan - The Chemistry of Lotion
- Aleeya Waheeda binti Mohd Muslim, Nurul Hidaayah binti Roslan & Sitti Harija binti Adain - Chemistry of Flower's Pigment
- Syaflnaz binti Abd Malek - Lilin Aroma Cengkih
- Balqis Adlina binti Omar, Lailatun Nazirah binti Ozair & Nur Atiqah binti Nasir - Onions
- Siti Khadijah binti Saiman - Plastic, Environment & Human Health
- New Wai Mun - Food Oxidation: Vegetables and Fruits
- Siti Suraya binti Mohamad, Nur Atiqah binti Nasir & Lailatun Nazirah binti Ozair - Stain Remover: Bleach
- Heah Zhi Lyn - Next Level Palm Oil by Aerobic-Liquor Treatment

### *Postgraduate Category*

- 1<sup>st</sup> Nur Fattima' Al-Zahra' binti Tuan Mohamood – Biodegradable Cellulosic Smart Hydrogel
- 2<sup>nd</sup> Koo Pooi Ling – Reutilization of expired medicines as electrical energy
- 3<sup>rd</sup> Chu Chee Chin – Sunscreen in Daily Life: Photochemistry

### *Consolation Prize*

- Zulaikha Athirah binti Alexzman & Zafirah Aida binti Alexzman – The Chemistry of Cheese
- Siti Maizatul Ameera binti Azhar – Molecularly Imprinted Polymer
- Soo-Ling Bee & Keemi Lim – Turning Garbage into Biomaterial
- Tan Siew Mei - Things You Should Know About Natural and Synthetic Medicine
- Noorazlina Adnan & Muhammad Sulaiman Mohd Johari - Morphine: Drug from Plants
- Nur Aisyah & Shakila Abdullah - The Chemistry of Microbial Pigment
- Mas Amira Idayu Abdul Razak, Noor Azilah Mohd Kasim & Mohd Nor Faiz Norrahim - Antidotes for Organophosphates Poisonings (OPs)

Announcement of the winners was on 14 April 2022 through IKM website and social media platforms. Communication with the participants was done out through email. Pusat STEM Negara through the Ministry of Education Malaysia also acknowledges this competition as a national level for Pentaksiran Aktiviti Jasmani, Sukan dan Kokurikulum (PAJSK).

### ***Global Women Breakfast 2022: Celebrating Global Women Chemists Breakfast 2022 at a Natural Setting***

The Global Women Chemists Breakfast organised by IUPAC with more than 200 events happening around the world on the morning of 16 February 2022 including one that was held at the Forest Research Institute of Malaysia (FRIM). The organisers Institut Kimia Malaysia and the Malaysian Natural Product Society (MNPS), planned to have the event at a natural setting beside a beautiful lake surrounded by trees and flowering plants. Due to the Covid-19 pandemic, the number of participants were limited to 50 people and an open air event would reduce risk of infection. Participants from Institut Kimia Malaysia, Universiti Teknologi MARA, Forest Research Institute Malaysia, Chemistry Department Malaysia, Universiti Malaya, Universiti Putra Malaysia, International Islamic University Malaysia, Institute for Medical Research, Malaysian Nuclear Agency and Perak Water Board were

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required to self test for Covid -19 to ensure they were Covid negative before entering the park. There were also a few men who came to support the event. ChM Prof Nor Hadiani Ismail, the President of the Malaysian Natural Product Society gave a welcoming speech and hoped that the Chemists will take the opportunity to know each other from the different organisations. This was followed by a speech by Datin ChM Dr Zuriati Zakaria representing Datuk ChM Soon Ting Kueh, President of Institut Kimia Malaysia. She conveyed his apologies and wished everyone well. IKM will continue to support this IUPAC event, especially so because IKM is an adhering body of the IUPAC. She reminded participants to follow the SOP and keep safe. The participants were then served with various food such as nasi lemak, laksa Johor, roti jala, curry puff, sandwiches, brownies, local deserts, coffee and lemonade. A casual sharing about "The career of a woman chemist in the early 70s" was presented by IKM Deputy President Datin ChM Dr Zuriati Zakaria further enlivened the program. She talked about her challenges as a woman chemist with very few number of women chemists in the 70s. She also emphasizes that networking is very important to advance in career where being a member of IKM is an advantage. She found that by joining IKM, it helped in her career which spurred her to be a secretary general of the Federation of Asian Chemical Society in 2007 and later as a Vice President of IKM and National Representative at IUPAC. The program ended with Forest Skywalk FRIM adventure climbing activities. Registered participant for the Skywalk walked for about 1 kilometer to reach the base of the Skywalk. The FRIM Skywalk has 11 towers connected by 8 bridges. Each tower has a different height from as low as 18m to as high as 50m. For security reasons, only 2 people over the age of 13 years are allowed to be at the 50m tower at a time. From the tower, participants could see the lake and the canopy of the forests of FRIM, the landmark buildings in Kuala Lumpur and the mountains behind. The view was beautiful as it was a clear day. All participants enjoyed the interaction and the Skywalk. The Global Women Breakfast was also celebrated at other parts of Malaysia, at the School of Chemical Sciences Universiti Sains Malaysia (USM) organised by the American Chemical Society Malaysian Chapter (ACS) and USM, Petronas in Bangi, International Islamic University of Malaysia (IIUM) at Kuantan and ACS Universiti Kebangsaan Malaysia (UKM) Student Chapter at Bandar Baru Bangi, Malaysia. This year, IKM will be the main organizer for GWB2023 with ACS Malaysia Chapter as the co-organizer to consolidate all Malaysia GWB's organizers in one webinar.

### **Webinars**

A free webinar was held on 25<sup>th</sup> March 2022 at 10.00 am via Zoom platform.

Title: Kingdom Fungi of Malaysia: Biological Diversity vs Chemical Diversity

Speaker: Dr Jaya Seelan A/L Sathiya Seelan, Institute for Tropical Biology and Conservation (ITBC), Universiti Malaysia Sabah (UMS)

This webinar managed to attract a total of 50 participants from different backgrounds. A fruitful discussion was initiated particularly addressing the need of chemical works to be conducted on the newly discovered fungi species in Malaysia. The session was moderated by the secretary of the division, ChM. Dr. Fatimah Salim.

### **D4 - DIVISION OF PHYSICAL & THEORETICAL CHEMISTRY**

Members of the Division are:

Professor ChM Dr. Mansor Ahmad (IKM) - Chairman  
Professor ChM Dr. Mohd Basyaruddin Abdul Rahman (Universiti Putra Malaysia)  
Professor ChM Dr. Sharifuddin Md Zin (Universiti Malaya)  
Assoc. Prof. ChM Dr. Chong Fai Kiat (IKM)  
ChM Dr. Norizah Abdul Rahman (Universiti Putra Malaysia) - Secretary  
ChM Dr. Pushpamalar Janarthanan (Universiti Monash)  
ChM Dr. Teh Lee Peng (Universiti Kebangsaan Malaysia)

### **Division Meeting**

A meeting was held on 29th September 2022 via an online platform (zoom).

### **Activities**

#### **Webinar on Nanotechnology in STEM, 5th August 2022**

A webinar titled "Nanotechnology in STEM" was conducted by co-joint organizers Monash University and the Division of Physical and Theoretical Chemistry, Institut Kimia Malaysia. Three prominent speakers for the webinar

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were Professor Saravanan Muthupandian from Saveetha Institute of Medical and Technical Sciences (SIMATS), Associate Professor Juan Joo Ching from University Malaya, and Associate Prof Pooria Pasbakhsh from Monash University Malaysia. A total of 66 participants participated in this webinar. The moderator and personnel in charge of the webinar were ChM. Dr. Pushpamalar Janarathanan.

### **Free webinar titled “Spectroscopy in Materials and Contaminated Soil Characterisation”, 9th November 2022.**

A free Webinar was jointly organised by the Fundamental and Applied Sciences Department, Universiti Teknologi PETRONAS, and the Division of Physical and Theoretical Chemistry, Institut Kimia Malaysia via Microsoft Teams. The first Speaker, ChM Ms Chow Mee Ling who is the Spectroscopy Product Specialist from Agilent Technologies (M) Sdn Bhd shared her knowledge in “UV-Vis-NIR Spectroscopy for Materials Characterization”. The second Speaker, ChM Dr Chin Teen Teen, the General Manager of ALS Technichem (M) Sdn Bhd, who is also a Fellow of Institut Kimia Malaysia has generously shared her expertise in “Disruptive Technology: Rapid, Onsite Measurement for Oil Contamination in Soil”. Dr Noraini Ghani from Universiti Teknologi PETRONAS was the Liaison Officer for the Webinar while Dr Chong Fai Kait was the Webinar Moderator. The total number of participants was more than 120, with various backgrounds affiliated to universities, consultation firms, private companies, government agencies and research institutions. Most of the participants are from Malaysia and some came from as far as Pakistan, China and Indonesia. The Division of Physical and Theoretical Chemistry, Institut Kimia Malaysia would like to express her appreciation to Universiti Teknologi PETRONAS, Agilent Technologies (M) Sdn Bhd, ALS Technichem (M) Sdn Bhd and the participants for the success of the Webinar. Personnel Incharge: ChM. Dr. Chong Fai Kait.

### **Webinar on “How can we contribute to energy transformation for sustainable future?”**

A webinar co-organized Universiti Kebangsaan Malaysia (UKM) and the Division of Physical and Theoretical Chemistry, Institut Kimia Malaysia on “How can we contribute to energy transformation for sustainable future?” by invited speaker Prof Dr. Aishah Abdul Jalil (Universiti Teknologi Malaysia) on 15th November 2022. About 25 participants joined the webinar. The moderator and personnel in charge of the webinar were ChM. Dr. Teh Lee Peng.

## **D5 - DIVISION OF POLYMERS & MATERIALS CHEMISTRY**

### **Division Members for 2022/2023**

Prof. Ts. ChM Dr. Chan Chin Han – *Chairperson*  
ChM Dr. Lee Siang Yin – *Co-Chairperson*  
ChM Dr. Eng Aik Hwee – *Vice Chairperson*  
Prof. ChM Dr. Chia Chin Hua – *Secretary*  
Prof. Emeritus Dato’ ChM Dr. Wan Md Zin Wan Yunus  
Prof. ChM Dr. Gan Seng Neon  
Prof. ChM Dr. Ho Chee Cheong  
Prof. ChM Dr. Mansor Ahmad  
Prof. ChM Dr. Rusli Daik  
Assoc. Prof. ChM Dr. Nor Yuziah Mohd Yunus  
ChM Dr. Desmond Ang Teck Chye  
ChM Dr. Faridah Hanim Ab Hanan  
ChM Dr. Ng Thian Hong  
Dr. Zhenli Wei  
ChM Lau Sook Ming  
ChM Dr. Woo Choon Kong  
ChM Tan Hee Peng  
Lionel Victor Anak Kemin

### **Division Meetings**

45<sup>th</sup> Meeting on 22<sup>th</sup> April 2022

46<sup>th</sup> Meeting on 1<sup>st</sup> July 2022

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47<sup>th</sup> Meeting on 27<sup>th</sup> September 2022

### **Activities**

#### ***IKM/RSC Synthomer Award in Polymer Science 2022 (led by Assoc. Prof. ChM. Dr. Nor Yuziah Mohd Yunus)***

- The prize is sponsored by Synthomer Sdn. Bhd. It is intended to reward the graduate from a Malaysian Institution of Higher Learning with the best Ph.D. thesis in the field of Polymer Science with a cash prize of RM2500.00 and a certificate to be presented at the IKM's Annual Chemistry Night (Malam Kimia).
- For 2022, 11 nominations from 9 local universities were received for the award and the award winner was Dr. Muhammad Hakim bin Shafie from Universiti Sains Malaysia (USM).

#### ***IKM Research Prize in Polymer Science 2022 (led by Dr. Lee Siang Yin)***

- The prizes are sponsored by HARPS Holdings Bhd. and Synthomer Sdn. Bhd.
- The prizes are intended to reward the six best PhD candidates in the field of Polymer and Materials Science from the Malaysian Institutions of Higher Learning, with each of them receiving a cash prize of RM1000.00 and a certificate to be presented at the IKM's Annual Chemistry Night (Malam Kimia).
- For 2022, 18 nominations from 8 local universities were received and the award winners were as follows:
  - a) Ms. Chia Wen Yi from University of Nottingham Malaysia.
  - b) Mr. Ayo Olasupo from Universiti Sains Malaysia (USM).
  - c) Ms. Hemavathi Krishnan from Universiti Malaysia Perlis (UNIMAP).
  - d) Mr. Muhammad Faiz bin Aizamddin from Universiti Teknologi MARA (UiTM).
  - e) Mr. Roslim bin Ramli @ Lim Chai from University of Nottingham Malaysia.
  - f) Ms. Bee Soo Ling from Universiti Sains Malaysia (USM).

#### ***Workshop on Analysis of Rubber Without Using Instrument (led by ChM. Dr. Eng Aik Hwee)***

- The workshop in virtual mode was held on 4<sup>th</sup> October 2022. ChM. Dr. Eng Aik Hwee from K&W Training & Consulting was the speaker of the workshop.
- Four video clips for the demo session of the workshop were recorded at a laboratory in UiTM Shah Alam by Ziflix.
- Kinematic Resources Sdn. Bhd. has sponsored RM20 Touch 'n Go E-wallet voucher for 7 participants who answered the quiz correctly during the workshop.

#### ***Forum on Analyses (led by Prof. ChM. Dr. Chia Chin Hua)***

- The seminar is expected to be conducted in 2023.
- It will be held in the morning session of IKM 56<sup>th</sup> AGM 2023.
- The forum will be in collaboration with IKM Division of Analytical Chemistry.

#### ***Technical Visit (led by ChM Dr. Faridah Hanim Ab Hanan)***

- Two technical visits were carried out in 2022.
- The first visit was held on 10<sup>th</sup> March 2022. It was made to visit The Cosmetic and Natural Products Section under Industrial Biotechnology Research Centre (IBRC), SIRIM Berhad, Selangor. It was participated by 7 registered IKM members.
- The second visit was held on 11<sup>th</sup> October 2022. It was made to visit Synthomer Asia Innovation Centre (AIC) Kulai, Johor. It was participated by 10 registered and non-registered IKM members.

#### ***Chemistry and Technology Information Series (CATIS) (led by Prof. ChM. Dr. Chia Chin Hua)***

- The CATIS talk was held on 12<sup>th</sup> August 2022 in virtual mode.
- ChM. Dr. Woo Choon Kong from Smarterials Tech GmbH was invited to present the talk entitled "Gloves R&D – The next frontier". A total of 110 participants have attended the session, including academicians, industrialists, and postgraduate students.
- Certificates of participation were distributed to the participants. The lecture note was uploaded on the IKM website.

#### ***International Symposium on Advanced Polymeric Materials (ISAPM) 2022 (led by ChM Dr. Lee Siang Yin)***

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- The symposium was successfully held on 25<sup>th</sup> November 2022 at Magellan Sutera Resort, Kota Kinabalu, Sabah.
- A total of 23 presentations comprising 1 plenary lecture, 2 keynote lectures, 15 invited lectures, 1 oral presentation and 4 posters were delivered.

### **World Polymer Congress (MACRO 2026) (led by Prof. Ts. ChM. Dr. Melissa Chan Chin Han)**

- The planning work for organising the Congress is in progress. Further details will be reported as it evolves.

## **D6 - DIVISION OF GREEN & SUSTAINABLE CHEMISTRY**

### **Division Members**

Assoc. Prof. ChM Dr. Juan Joon Ching	– Chairman	Universiti Malaya
ChM Dr. Lee Kian Mun	– Secretary	Universiti Malaya
Prof. ChM Dr. Phang Sook Wai		Tunku Abdul Rahman University of Management and Technology (TARUMT)
Assoc. Prof. ChM Dr. Lee Hwei Voon		Universiti Malaya
Assoc. Prof. ChM Dr. Nurul Izzaty Hassan		Universiti Kebangsaan Malaysia
Assoc. Prof. ChM Dr. Tan Kar Ban		Universiti Putra Malaysia
ChM Dr. Chee Chin Fei		Universiti Malaya
ChM Dr. Chin Swee Yee		International Medical University
ChM Dr. Irene Ling		Monash University
ChM Dr. Lee Ching Shya		Universiti Malaya
ChM Dr. Muntaz Abu Bakar		Universiti Kebangsaan Malaysia
ChM Dr. Pushpamalar Janarthanan		Monash University Malaysia
ChM Dr. Yeong Keng Yoon		Monash University Malaysia

### **Division Meetings**

- 1st meeting was held on 10th August 2022 at IKM main branch and virtually through Zoom.
- 2nd meeting was held on 12th October 2022 virtually through Zoom.
- 3rd meeting was held on 23rd February 2023 virtually through Zoom.

### **Activities**

#### **Webinars (virtual)**

Biomass-derived hydrogel for drug delivery using green chemistry

Date: 19th August 2022, Time: 9.00 – 10.00 am

Speaker: ChM Dr. Pushpamalar Janarthanan

Novel Pyrochlores in the Bismuth Copper Niobate Ternary System: Phase equilibria, structural and electrical properties

Date: 23rd September 2022, Time: 10.00 – 11.00 am

Speaker: Assoc. Prof. ChM Dr. Tan Kar Ban

Decarbonization of Energy Industry Through Renewable Energy and Green Technology Approaches

Date: 14th December 2022

Time: 10.00 – 11.00 am, Speaker: Ir. Noraziah binti Muda

A series of webinars were held by experts in the field related to green & sustainable chemistry. The experts shared their research experience and also the very recent trend in the relevant discipline to stimulate the creativity and innovation of the younger generation. The targeted audiences are postgraduate and undergraduate students, researchers, and young lecturers.

## **D7 - DIVISION OF FOOD SCIENCE AND NUTRITION**

The Division consists of following members:

Chairperson: Datin Maimonah Sulaiman – Former Director, Department of Chemistry Malaysia

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Co-Chairperson: Ms. Li Hui Ling – Department of Chemistry Malaysia  
Secretary: Ms. Norliza Abd Hamid – Department of Chemistry Malaysia  
Members: Dr Nor Shifa Shuib – Department of Chemistry Malaysia  
Dr. Azyiah Abd Aziz – Universiti Teknologi MARA  
Mr. Wong Choon Seng – Nestle Manufacturing (M) Sdn Bhd  
Pn Megawati Suzari – Fonterra Brand (M) Sdn Bhd  
Ms Camilla Chua – Danone Dumex Malaysia

### **Activities**

#### **Webinar on Food Security in Malaysia was successfully held on 19th January 2022**

No of participants - 90.

4 Speakers delivered their talk. They were from Malaysian Institute of Food Technology, Fronterra Brands Malaysia, Universiti Putra Malaysia (UPM) and Universiti Teknologi Mara (UiTM)

#### **On-line talk on FSSC22000 Version 5.1.**

A food safety scheme, recognised by GFSI

Date: 27 Oct 2022

Speaker: ChM Ms Rachel Yap, *Principal Consultant, Elco Management Consultants Sdn Bhd*

### **D8 - DIVISION OF FORENSIC CHEMISTRY**

#### **Division Members for 2022/2023**

DCP (R) Assoc. Prof. Dato' ChM Dr. Yew Chong Hooi	(Chairperson)
ChM Halimah bt. Abdul Rahim	(Co-Chairperson)
Datin ChM Maimonah Sulaiman	

### **Activities**

One of the objectives of this Division is to create awareness to the members and public on the role of Forensic Chemistry in our daily life. A series of talks to schools, colleges and universities on the role of Forensic Science, particularly Forensic Chemistry in criminal investigations were held. Division of Forensic Chemistry (DFC) also assisted Forensic Science Society of Malaysia (FSSM) in organizing National Forensic Science Symposium (NFSS) on 28 & 29 September 2022 in Pullman Hotel, Bangsar, Kuala Lumpur. This Symposium was attended by about 100 participants from Police Department, Chemistry Department, Universities, Public agencies and Private Laboratories.

### **LABORATORY & QUALITY ASSURANCE COMMITTEE C1 - LABORATORY EXCELLENCE AWARD COMMITTEE**

#### **Committee Members**

ChM Li Hui Ling	(Chairperson)	IKM/JKM
Dato' ChM Dr Hj Mas Rosemal Hakim Mas Haris	(Co-Chairperson)	IKM
DCP(R) Assoc Prof Dato' ChM Dr Yew Chong Hooi		IKM
Prof ChM Dr Yang Farina Abd Aziz		IKM/UKM
ChM Pua Hiang		IKM
ChM Gunalan Varatharajan		JKM
ChM Anita Jefrydin	PETRONAS Penapisan (Melaka)	
ChM Dr Tumirah Khadiran		FRIM
ChM Teo Chee Hau		JKM

The members held 3 meetings on 14 April, 14 July and 30 September 2022 to review documents pertaining to the Award; to consider applications from laboratories and appointment of assessors, and to evaluate the assessment reports submitted by assessors. A total of 68 laboratories throughout Malaysia received the 2022 IKM Laboratory Excellence Awards. The list of awardees is given in Appendix B.

### **C2 - CHEMICAL & OCCUPATIONAL SAFETY AND HEALTH COMMITTEE**



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### **Committee Members**

ChM Halimah binti Abdul Rahim	KIMIA Malaysia (Chairperson)
ChM Marhayani binti Md Saad	KIMIA Malaysia
Prof. ChM Dr Mansor bin Ahmad	Universiti Putra Malaysia
ChM Dr Kathiresan V. Sathasivam	AIMST University
ChM Nor Aidora binti Saedon	KIMIA Malaysia
ChM Zaraiha binti Awang	KIMIA Malaysia
ChM Wan Rahimah binti Wan Ahmad	KIMIA Malaysia
ChM Saiful Fazamil bin Mohd Ali	KIMIA Malaysia
ChM Dr Vanitha a/p Kunalan	KIMIA Malaysia
ChM Mohd Norhafsam bin Maghpor	NIOSH

A total of four (4) meetings (on 26/05/2022, 01/07/2022, 20/07/2022 and 29/07/2022) were held in year 2022. The meetings were conducted via zoom platform to discuss the activities for 2022/2023.

### **Webinar on Current Situation of COVID-19**

The “Webinar on Current Situation of COVID-19” was successfully held on 29 July 2022. The webinar was jointly organized by the Chemical & Occupational Safety & Health Committee, Malaysian Institute of Chemistry (IKM) and the Department of Chemistry Malaysia (KIMIA Malaysia). The webinar was conducted *via* the Zoom platform and streamed live *via* the IKM Facebook page. Up to 200 participants from various higher learning institutions and private companies as well as government agencies participated in the webinar. The webinar began with a welcoming speech and opening remarks by the President of IKM, Datuk ChM Dr Soon Ting Kueh. The first talk entitled “Workplace Risk Assessment Towards Transition to the Endemic Phase of COVID-19” was presented by Assoc. Prof. Ts. Dr Mohd Rafee Baharudin, Director of the Occupational Safety and Health Management Office, Council Member for the Allied Health Professions, University Putra Malaysia. The webinar continued with “COVID-19: Are we done with it?” by Dr Priya a/p Ragunath, Public Health Physician, Occupational Physician Head, Occupational and Environmental Health Sector, Ministry of Health Malaysia. The objectives of the webinar which were to disseminate the latest information regarding COVID-19 situation in the country and to share experience at PKRC centre as well as to share workplace risk assessment towards transition to the endemic phase of COVID-19 have been successfully achieved, based on the feedbacks from participants. ChM Halimah Abdul Rahim, Chairperson of the IKM Chemical & Occupational Safety & Health Committee had graciously given her concluding remarks during the closing ceremony.

### **C3 - MALAYSIAN YOUNG CHEMISTS NETWORK**

The Malaysian Young Chemists Network (MYCN) comprises the following:

Assoc. Prof. ChM. Dr. Juan Joon Ching	Universiti Malaya (UM) / IKM [ <i>Chairman</i> ]
Assoc. Prof. ChM. Dr. Yong Soon Kong	Universiti Teknologi MARA (UiTM) [ <i>Vice Chairman</i> ]
ChM. Ms. Lee Shoek Yin	Afcon Chemicals Sdn Bhd [ <i>Secretary</i> ]
ChM. Mr. Chua Yao Jun, Jordan	ALS Technichem (M) Sdn Bhd [ <i>Assistant Secretary</i> ]
ChM. Dr. Mohd Sufri Mastuli	Universiti Teknologi MARA (UiTM) [ <i>Treasurer</i> ]
ChM. Dr. Chin Swee Yee	International Medical University (IMU) [ <i>Assistant Treasurer</i> ]
Assist. Prof. ChM. Dr. Yvonne Choo Shuen Lann	Xiamen University Malaysia / IKM [ <i>Head of Media and Communication</i> ]
ChM. Dr. Fatimah Salim	Universiti Teknologi MARA (UiTM) [ <i>Head of International Liaison</i> ]
ChM. Dr. Lee Kian Mun, Morris	Universiti Malaya (UM) [ <i>Head of Membership</i> ]
ChM. Dr. Kumuthini a/p Chandrasekaram	Universiti Malaya (UM)
ChM. Ms. Atiah Ayunni binti Abdul Ghani	Universiti Kebangsaan Malaysia (UKM)
Prof. ChM. Dr. Phang Sook Wai	Tunku Abdul Rahman University of Management and Technology (TARUMT)
ChM. Dr. Lee Loong Chuen	Universiti Kebangsaan Malaysia (UKM)
ChM. Dr. Yeo Chien Ing, Ally	Sunway University
Assoc. Prof. ChM. Dr. Lim Teck Hock, Eric	Tunku Abdul Rahman University of Management and Technology (TARUMT)

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ChM. Dr. Nurul Huda binti Abd Karim	Universiti Kebangsaan Malaysia (UKM)
ChM. Dr. New Siu Yee	University of Nottingham Malaysia
ChM. Dr. Wong Lai Peng	Universiti Tunku Abdul Rahman (UTAR)
ChM. Mr. Ahmad Zaharruddin bin Zahari	Taiko Marketing S/B
ChM. Mr. Muhammad Ashraf bin Mohd Kahar	Rovski Industries Sdn Bhd
Assoc. Prof. ChM. Dr. Lee Hooi Ling	Universiti Sains Malaysia (USM)
ChM. Dr. Iskandar bin Abdullah	Universiti Malaya (UM)
ChM. Ms. Nurul Darsani binti Amat Darbis	TNB Research Sdn Bhd
ChM. Mr. Marvis Pillie Abang	General Electric
ChM. Dr. Mazlin Mohideen	Universiti Kuala Lumpur Royal College of Medicine Perak
ChM. Ms. Nur Mashitah Mustaffa Albasre	Quest International University
Assoc. Prof. ChM. Dr. See Hong Heng	Universiti Teknologi Malaysia (UTM)
ChM. Dr. Chua Kah Heng	Universiti Malaya (UM)
ChM. Dr. Mohd Ridhwan bin Adam	Universiti Sains Malaysia (USM)
ChM. Dr. Nurul Asikin binti Mijan	Universiti Kebangsaan Malaysia (UKM)
ChM. Dr. Tuan Sheikh Ahmad Izzaddin Sheikh Mohd Ghazali	Universiti Teknologi MARA (Uitm) Negeri Sembilan
ChM. Mr. Ku Mohd Amin bin Ku Yahya	ALS Technichem (S) Pte. Ltd
Asst. Prof. ChM. Dr. Awis Sukarni Bin Mohamad Sabere	International Islamic University Malaysia
ChM. Ms. Kyra Lim Soo Tian	ILAG High Performace Coating
ChM. Dr. Kamalrul Azlan Azizan	Universiti Kebangsaan Malaysia (UKM)
Assoc. Prof. ChM. Dr. Devagi a/p Kanakaraju	Universiti Malaysia Sarawak
Assoc. Prof. ChM. Dr. Loh Kee Shyuan	Universiti Kebangsaan Malaysia (UKM)
Assoc. Prof. ChM. Dr. Goh Choo Ta	Universiti Kebangsaan Malaysia (UKM)
Assoc. Prof. ChM. Dr. Khor Sook Mei	Universiti Malaya (UM)
Assoc. Prof. ChM. Dr. Lim Vuanghao	Universiti Sains Malaysia (USM)
ChM. Ms. Nooradilah Abdullah	Agensi Nuklear Malaysia
ChM. Dr. Shahrul Nizam Ahmad	Universiti Teknologi MARA (UiTM)
ChM. Dr. Aemi Syazwani Abdul Keyon	Universiti Teknologi Malaysia (UTM)
ChM. Dr. Ng Jeck Fei	Taylor's University
ChM. Ms. Nur Qamra binti Ab Aziz	Jaring Metal Industries Sdn Bhd
ChM. Dr. Siti Syaida Sirat	Universiti Teknologi MARA (UiTM), Negeri Sembilan
ChM. Mr. Ivan Tay Jenn Hau	Pantherlab Sdn Bhd
ChM Mr. Mohd Naim bin Abdul Halim	HZB Enterprise
Assoc. Prof. Ts. ChM. Dr. Lam Sze Mun	Universiti Tunku Abdul Rahman (UTAR)
Assoc. Prof. Ts. ChM. Dr. Sin Jin Chung	Universiti Tunku Abdul Rahman (UTAR)
ChM. Ms. Nor Ellia Izzah Mohamed Yusof	Duopharma Innovation Sdn Bhd
ChM. Dr. Krishna Veni Baratha Nesan	Malaysian Rubber Board
ChM. Dr. Mazidatulakmam Bin Miskam	Universiti Sains Malaysia (USM)
Assoc. Prof. ChM. Dr. Lee Hwei Voon	Universiti Malaya (UM)
ChM. Ms. Chang Huey Yng	SGS (M) Sdn Bhd
ChM. Ms. Nadjwa Ahmad Zuber	Dutch Lady Milk Industries Bhd
ChM. Ms. Teh Bee Kee	American Air Filter
ChM. Dr. Lim Jun Wei	Universiti Teknologi PETRONAS
ChM. Ms. Dhayaalini a/p Nadarajan	Hospital Kuala Lumpur
ChM. Ms. Norzafirah binti Razali	Petroleum Nasional Berhad (PETRONAS)
ChM. Mr. Damien Khoo Yiyuan	Brucker (M) Sdn Bhd
ChM. Ms. Tan Xiao Yun	Nexus Analytics
Assoc. Prof. Ts. ChM Dr. Darfizzi Derawi	Universiti Kebangsaan Malaysia (UKM)
ChM. Ms. Lee Lay Hoon	ICS Consulting Sdn Bhd
ChM. Mr. Muhammad Helmi bin Mohamad	Biocon Sdn Bhd
ChM. Mr. Tan Dai Chuan	Universiti Putra Malaysia (UPM)

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ChM. Ms. Yian May Leng, Karen	KLK Oleo
ChM. Mr. Wan Muhammad Rahmat Syazuli bin Wan Harun	SGS-Petrotechnical Inspection (M) Sdn Bhd
ChM. Dr. Nurul Izzaty Hassan	Universiti Kebangsaan Malaysia (UKM)
ChM. Mr. Badrul Hisyam bin Zainudin	Lembaga Koko Malaysia
ChM. Mr. Choo Kerk Wei	DARCO
ChM. Ms. Dayang Masliah binti Rashid	Department of Agriculture, Sabah
ChM. Mr. Mohd Faris bin Mohd Rudi	STRIDE, Ministry of Defence
ChM. Ms. Vimala A/P Selbom @ Selvam	YTY Group
ChM. Mr. Mohd Saifful bin Abdul Manap	Sabah Softwood Hybrid Fertilizer Sdn Bhd
ChM. Dr. Nurzuhrah Binti Hassan	Universiti Malaysia Terengganu (UMT)
ChM. Dr. Koh Mei Kee	Xiamen University Malaysia
ChM. Ms. Chen Tian Hong	Permulab Sdn Bhd
ChM. Dr. Nadhratun Naiim Mobarak	Universiti Kebangsaan Malaysia (UKM)
ChM. Ms. Chew Wan Chyn	Approved Forensics Sdn Bhd
ChM. Mr. Faris Asyraf Alias	Lab Master Sdn Bhd
ChM. Mr. Benedict Anak Sampling	Universiti Malaysia Sarawak (UNIMAS)
ChM. Ms. Emily Majanun	Petronas Research Sdn Bhd
ChM. Ms. Ros Arniza Bt Ahmad Rodzli	Tracerco Asia Sdn Bhd

### **Committee meetings**

- 1<sup>st</sup> meeting was held on 18<sup>th</sup> February 2022 virtually via Zoom
- 2<sup>nd</sup> meeting was held on 20<sup>th</sup> May 2022 virtually via Zoom
- 3<sup>rd</sup> meeting was held on 29<sup>th</sup> July 2022 virtually via Zoom
- 4<sup>th</sup> meeting was held on 6<sup>th</sup> October 2022 virtually via Zoom
- 5<sup>th</sup> meeting was held on 10<sup>th</sup> November 2022 virtually via Zoom
- 6<sup>th</sup> meeting was held on 16<sup>th</sup> December 2022 virtually via Zoom

The Malaysian Young Chemists Network (MYCN) serves as a platform for a group of young chemists in Malaysia to promote and contribute towards chemistry and professionalism in Chemistry. Since 2019, MYCN has organized and established several activities for young chemists toward the need of chemistry and sustainable development goal (SDG) 2030. Currently, the total number of MYCN member is 126 members from various institutions and companies.

### **Activities**

#### **Karnival Kemahiran dan Kerjaya Kimia Malaysia (K<sub>4</sub>M)**

Date: 12th November 2022 (Saturday) and 23th November 2022 (Wednesday)

Time: 9.30 am -12.30 pm and 9.45 am – 11.00 am                      Venue: Virtual

K<sub>4</sub>M is a flagship programme which conducted annually, and the main objective is to provide activities and prepare undergraduate toward the job market. This event is chaired by ChM Dr. Nurul Huda and co-organized with American Chemical Society (ACS) and Universiti Kebangsaan Malaysia (UKM). The event is successfully held virtually and attracted 160 participants from various higher education institutions in Malaysia. This event is divided into 2 days with different activities on Expectation from the Industry (12<sup>th</sup> November 2022) and Making Great First Impressions for a Job Interview (23<sup>th</sup> November 2022). The event was officially launched by the President of IKM, Datuk ChM Dr. Soon Ting Kueh, during the first session, followed by welcoming remarks from the Vice Chairman of MYCN, AP ChM. Dr. Yong Soon Kong represent Assoc Prof Dr Juan Joon Ching as Chair of MYCN, and Co-Chair of ACS Malaysia Chapter, ChM. Dr. Lee May Lee. Dr. Nurul Huda Abd Karim (UKM) was the moderator. On 12 November 2022, three IKM registered chemists, i.e., ChM Dr. Tay Feng Huai, ChM. Dr. Muhamad Zamir Othman and ChM. Dr. Emily Tan shared their career journey with the participants. As the company founder, Dr. Tay highlighted his timeline for forming Elite Advance Materials Sdn Bhd. Meanwhile, Dr. Zamir elaborated on how he shifted his career as a university lecturer to the Vice President of Product of Sugarbombs Worldwide Sdn. Bhd. and Infinite Opportunities Sdn. Bhd. Finally, Dr. Emily described her career as the Senior Manager, Business Development at KLK OLEO, Malaysia. The second session of the carnival was held on 23 November 2022. Three

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representatives from KLK OLEO, Malaysia, including Mr. Jonathan Mark Vethanayagam, the General Manager of Group HR, Mr. Isaac Ng Wei Hong, the Senior Executive of Talent Engagement, and Ms. Melissa, have shared tips on interviewing for a job. Mr. Isaac conducted a mini-workshop that started with an ice-breaking activity whereby participants were asked to search for six country names based on the word puzzle he projected. Then, Mr. Isaac talked about three aspects of an interview: (a) how to impress the hiring manager, (b) interviews have a flow, and (c) how do I answer these questions. For each aspect, examples and a rule of thumb have been provided by Mr. Isaac. Mr. Jonathan encouraged the participants to be engaged with the interviewer to impress them. Their take-home message was 'be prepared' before attending any interview.

### ***Outstanding Young Chemists Award 2022 (OYCA)***

Date: 2<sup>nd</sup> December 2022 (Friday)

Time: 7.00 pm -11.00 pm      Venue: One World Hotel, Bandar Utama, 47800 Petaling Jaya, Selangor

This is the second event for IKM to present the IKM Outstanding Young Chemist Award in 2022. This awards divided into two categories namely Academic and Industry. This intends to encourage and recognize the contribution of young chemists at the beginning of their careers. This award was chaired by Prof Dr ChM Phang Sook Wai. The winner of these awards were Prof. Dr. ChM Lim Hong Ngee (Universiti Putra Malaysia) and ChM Dr Mohamad Nasir B Mat Arip (Forest Research Institute Malaysia) for Academic and Industry categories, respectively. The award was presented during IKM Annual Dinner and the winner receive a cash prize, medal and certificate.

### ***Young Chemists Evening (Sepetang Bersama Ahli Kimia Muda) YCE 2022***

Date: 2<sup>nd</sup> December 2022 (Friday)

Time: 2.00 pm -5.00 pm      Venue: One World Hotel, Bandar Utama, 47800 Petaling Jaya, Selangor

This is another flagship programme of MYCN and the main objective of the event is an inaugural networking event seeking to strengthen relationship among young chemists based in Malaysia from industry and academia. This event is chaired by Dr. Nurul Ashikin from Universiti Kebangsaan Malaysia (UKM). The second event after the first event was held virtually on 1st of December 2021. This event was a program being curated by MYCN with the theme 'Making SDGs Matter: Caring for The Future' This event was co-organised by the Young Scientist Network (YSN), American Chemical Society (ACS Malaysia Chapter), Royal Society of Chemistry (RSC) and also Universiti Kebangsaan Malaysia (UKM). This is one of the flagship events of MYCN conducted annually to gather young chemists, including IKM and non-IKM members, physically around Malaysia for networking and seeking to cultivate professional relationships. The event has attracted over 116 participants from academicians, industries, and postgraduate and undergraduate students from various backgrounds. The percentage breakdown is 52.59% (academic), 15.52% (industry) and 31.89% postgraduate and undergraduate students from local universities in Malaysia. ChM Dr. Shahrul Nizam served as the even MC and the event was initially launched officially by the President of IKM, Datuk ChM Dr. Soon Ting Kueh., followed by welcoming remarks and an opening speech introducing the Institut Kimia Malaysia (IKM) to all audiences. After that, a welcoming speech and introduction to MYCN were delivered by the Chairman of MYCN, Assoc. Prof. ChM Dr. Juan Joon Ching. Next, the participants were served a Hi-Tea buffet while waiting for the forum session. In the forum session, ChM Dr. Muhamad Azuwa Mohamed as a forum moderator, continued the event on the stage with two speakers i.e., ChM Dr. Mohd Sukor Su'ait (UKM, academician chemist) and Dr. Norfadhilatuladha Abdullah (Top Glove, industrial chemist) to share their career journey, with motivational and inspirational speeches and advice to all the young participants aliased with the Sustainable Development Goals (SDG) highlights. The forum was also active with the responses and questions from the audiences to dig more ideas on the SDG into chemistry fields. Then, the event was preceded by a Networking Academia – Industry - Greet and Meet session conducted by an activity team headed by ChM Dr. Sufri Mastuli. All the participants were asked to mingle and meet and greet other participants to collect the most number of name cards to be rewarded as the best man of the event. Around five sporting participants were selected as the winners after generously promoting themselves to the audience. Indeed, the lucky draw session also was held, and about ten lucky winners were selected. This event succeeded in securing partly through a grant provided by IKM, ACS Corporation Associates, MYCEB, and Donewell Sdn. Bhd. This year, we were privileged to receive many in-kind sponsors, such as Sugarboom, Abam Peah, and Agilent Sdn. Bhd too. MYCN sincerely thanks all our sponsor partners for their generous support.

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### **MYCN Voice articles in Berita IKM - Chemistry in Malaysia**

The special column in Berita IKM was chair by Dr Sufri and Dr Fatimah which will reserve a one to two pages for MYCN to voice out news related to chemistry especially MYCN activities. The column MYCN Voice is published in the September 2022 issues with the title's articles: "Outstanding Young Chemist Award 2021 Winner Showcase webinar". The team has submitted and articles and published in the Berita IKM in Issue No.147 (June 2022) with the title: "Perspective on Gas Chromatography Application in Forensic Fire Debris Analysis".

MYCN is trying to reform the MYCN and thus we are planning a "Strategic Plan" which is chaired by ChM Mr Damien Khoo. The detail of draft covered new and attractive ideas such as (a) Create a module for the fresh graduate and job opportunities, (b) Future on Chemistry to handlings to the young people in Malaysia, (c) The direction of the Chemistry industry, and (d) Relook and revise the curriculum on the syllabus to align the requirement of the industry and problem-solving. The chair will be organising a workshop to discuss on the implementation of the strategic plan. There is continuous effort to engage with International Younger Chemist Network (IYCN) for international networking. At this moment, these activities are chaired by Assoc Prof Lim Teck Hock from Universiti Pengurusan dan Teknologi Tunku Abdul Rahman.

### **C4 - COMMITTEE ON CHEMISTRY EDUCATION & COMMUNITY (CCEC)**

The Chemistry Education Committee for 2022/2023 comprises the following:

Datuk ChM Dr Soon Ting Kueh	IKM (Chairman)
Datin ChM Dr Zuriati Zakaria	IKM
ChM Dr Sa'adah Masrukin	IKM
Datin ChM Dr Ng Soo Boon	SEGi University
Prof ChM Dr Mansor Ahmad	UPM
Prof Dr Sharifuddin Md Zain	UM
ChM Dr Ng Kim Hooi	TARUMT
Assoc Prof ChM Dr Ng Chew Hee	IMU

The main activity of the Committee in the 2022/2023 session is Kuiz Kimia Kebangsaan Malaysia (K<sub>3</sub>M) 2022.

### **Kuiz Kimia Kebangsaan Malaysia (K<sub>3</sub>M) 2022**

K3M 2022 was successfully conducted on Thursday, 29 September 2022 in 944 schools throughout Malaysia. A total of 35,922 students registered for the K3M 2022, 31,324 students from Form 4 and 5 took part in the O level quiz, while 4,598 students from Form 6 and Matriculation participated in the Advanced level quiz. The top scorer students for Advanced and Ordinary level received their awards during Malam Kimia & Presentation of IKM Awards 2022 on Friday, 2 December 2022 at One World Hotel, Petaling Jaya, Selangor.

### **Karnival Kimia Malaysia (K<sub>2</sub>M)**

K<sub>2</sub>M in the year of 2022 has been put on hold due to the COVID-19 pandemic, however, it will resume after the pandemic situation improves in 2023.

### **C5 - COMMITTEE ON CHEMISTRY & INDUSTRY (CCI)**

#### **Committee Members**

<i>Name &amp; Position</i>	<i>Company / Organization</i>
ChM Marhayani binti Md Saad	Department of Chemistry Malaysia (Chairperson)
ChM Ts Damien Khoo Yiyuan	Bruker (M) Sdn Bhd (Co-Chair)
Dr Addie Wong Wai Meng	Taliworks Corporation Berhad
ChM Dr Ng Thian Hong	Central Medicare Sdn Bhd
Puan Nurida Yusop	Petronas Research Sdn Bhd
ChM Dr. Chin Teen Teen	ALS Technichem (M) Sdn Bhd
ChM Nor Azian binti Abu Samah	Department of Chemistry Malaysia
ChM Dr Padillah binti Yahya	Department of Chemistry Malaysia
ChM Dr Siti Nur Nazathul Shima binti Hashim	Department of Chemistry Malaysia
Mr Christopher Kew Lim	Taiko Group

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### **Committee Meetings**

Only one meeting was conducted on 13th May 2022 via Zoom platform to discuss the following activities for 2022/2023:

### **Survey**

Survey questionnaire is ready to be distributed to industrial sectors to gauge their feedback on:

- Relevance of IKM membership to their organization and business
- Role of Chemistry in their respective business
- Placement of Chemistry students as interns in their organisation
- Number of Chemistry graduates in their workforce
- Preparedness / skill set of Chemistry graduates for their roles in their companies

### **Forum**

- Proposed to have career talk or forum by IKM involving academia and industry.
- Suggested to organize a webinar or forum for chemistry graduates on what is required of a chemistry graduate before applying for jobs in the industry.

## **C6 - COMMITTEE ON CHEMISTRY INVENTION & INNOVATION / KIMIA INVENSI DAN INOVASI MALAYSIA (KI2M)**

### **Committee Members**

Dato' ChM Dr Hj Mas Rosemal Hakim bin Mas Haris	(Chairman)
Assoc Prof ChM Dr Juan Joon Ching	(Co-Chairman)
ChM Marhayani binti Md Saad	(Co-Chairman)
Dato' DCP(R) Assoc Prof ChM Dr Yew Chong Hooi	
Assoc Prof Dr Nor Aziyah binti Bakhari	
ChM Mohd Izuan bin Othman	
Prof ChM Dr Shafida binti Abdul Hamid	
Prof ChM Dr Zainab Binti Ngaini	
ChM Dr Kathiresan a/l Sathasivam	
ChM Dr Sheela Chandren	
ChM Dr Hayyiratul Fatimah Mohd Zaid	
ChM Dr Salmiah Jamal Mat Rosid	
ChM Debbie Annabell Peter	

### **Launching of "Kimia Invensi dan Inovasi" (KI2M) 2022**

KI2M 2022 was jointly organized by Institut Kimia Malaysia (IKM) via IKM Northern Branch, Universiti Teknologi MARA Cawangan Pulau Pinang and Jabatan Kimia Malaysia. The theme of KI2M 2022 is "Chemistry is Intrinsic to a High Quality of Life". The objectives of KI2M are:

- To create a platform for showcase of innovations, inventions and designs produced by academicians, professionals, personnel of governmental or private institutions, students from primary school up to universities.
- To steer not only academic excellence but also to nurture creative & innovative culture in the nation.
- To create awareness and encourage experts and scholars particularly those in institutions of higher learning to embark on product-oriented research.

KI2M encompasses projects and or products derived from any physical, biological, medical, and engineering endeavor with some emphasis on chemistry that can be delivered by means of a concise written description, oral-video, demonstration, or exhibition. The announcements of KI2M began in January 2022, with overwhelming response and support from the Ministry of Education and Education Departments of all states in Malaysia. Dato' ChM Dr. Hj. Mas Rosemal Hakim Mas Haris (Chairman of KI2M) was invited and delivered a live talk/interview on "Selamat Pagi Malaysia" Berita RTM on 18th April 2022. For judging requirements, participants must submit an extended abstract as well as a video demonstrating their project. 140 extended abstracts and 123 videos were received before the deadline. Each project was evaluated separately by 3 different judges. A total of 130 judges were involved. The launching of KI2M 2022 and awards winner announcement were conducted virtually at 3.00 pm on 25th May 2022. The welcoming and appreciation speeches were delivered by Dato' ChM Dr. Hj. Mas Rosemal Hakim Mas Haris (Chairman of KI2M), and Datuk ChM Dr Soon Ting Kueh, (President of Institute Kimia

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Malaysia). The program was officiated by YB Dato' Sri Dr Adham Baba, Minister of Science, Technology, and Innovation. The award winners were announced by KI2M Program Director, Assoc. Prof. ChM Dr Nor Aziyah Bakhari. The organizers would like to record their sincere vote of thanks to YB Dato' Sri Dr Adham Baba, Minister of Science, Technology and Innovation, Director of Penang State Education Department, Bank Simpanan Nasional, IKM Branches, Mass Media, judges and all those who have contributed to the success of Kimia Inovasi dan Inovasi Malaysia 2022.

### VIII: APPRECIATION

112. The Council wishes to record its appreciation to the many persons and organizations who have given their support to the Institute.
- YB Chang Lih Kang, Minister of Science, Technology and Innovation (MOSTI).
  - YBhg. Datuk Ts. Dr. Haji Aminuddin bin Hassim, Secretary General of MOSTI.
  - The Ministry of Science, Technology and Innovation, Organization for the Prohibition of Chemical Weapons, Royal Society of Chemistry, American Chemical Society, Foundation for Interaction between Science and Technology, Asia Chem Corporation and the many local firms for their financial support, Malaysian Scientific Association, Confederation of Scientific and Technological Associations of Malaysia, Department of Standards Malaysia, Malaysian Qualifications Agency and the Department of Occupational Safety and Health for their cooperation.
  - Schools Division, Ministry of Education for providing assistance and acting as liaison between the schools and the Chemistry Education & Community Section of IKM.
  - MRB, MPOB, MARDI, SIRIM Bhd, FRIM, IMR, Jabatan Kimia Malaysia, Jabatan Mineral & Geosains, Malaysian Institute for Nuclear Technology Research, UKM, UM, UPM, UTM, UiTM, UMS, UNIMAS, USM, UTAR, TARUMT, UMP, IMU, Monash University Sunway Campus and Nottingham University Malaysia for the use of their facilities and extending their cooperation.
  - Members of Subcommittees and IKM Branch committees.
  - Authors of papers at the Institute's Seminars/Conferences/Courses.
  - Advertisers, well-wishers and donors for making all our functions and projects successful with their support and financial contributions.
  - Mass Media for news coverage.
  - Secretariat Staff
  - Members who participated in the functions by their involvement in the organization of the events and by their attendance.
  - All those friends of IKM who had in one way or another supported the Institute.
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*Prepared by*



.....  
ChM Dr Aqeel Saravanan  
*Executive Director*

*Verified by*



.....  
ChM Chang Hon Fong  
*Hon. Secretary*

### IX: APPENDICES APPENDIX A MEMBERSHIP CHANGES

#### 1. Members Upgraded to Fellows

1	Goh Choo Ta, Dr	F/0135/5356/08/22
2	Kathiresan a/l V. Sathasivam, Dr.	F/0137/4427/03/22
3	Lee Hooi Ling, Assoc Prof. Dr.	F/0134/4523/04/12/22
4	Mohammad bin Kassim, Prof. Dr.	F/0136/6265/12/22
5	Mohd Jamil Bin Maah, Prof. Dato Dr.	F/0139/5398/08/22

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6	Nurida Bte Mohd Yusop	F/0138/3947/99/22
7	Rusli Bin Daik, Prof. Dr.	F/0133/4020/00/22
8	Teo Chook Kiong	F/0140/5783/10/16/22

### 2. Licentiates Upgraded to Members

1	Adianah binti Hussin	M/6050/6640/13/22
2	Adri bin Norisham	M/6258/8243/18/22
3	Ahmad Shuhairil bin Abd Shukor	M/6128/7077/15/22
4	Alan Kong Yong Hian	M/6051/8359/19/22
5	Alisa Furdoes binti Mohd Ali	M/5946/8202/18/22
6	Amira Nadzirah binti Zahari	M/6198/7382/16/22
7	Benedict Anak Samling	M/6059/8523/19/22
8	Boo Su Wei	M/6057/7455/16/22
9	Chan Hann Chun	M/5947/8357/19/22
10	Chong Jun Fang	M/6130/8083/18/22
11	Chow Xin Wei	M/6060/7399/16/22
12	Cyrill Marcella Anak Anek	M/6250/8692/20/22
13	Deevanesh A/L Gengatharan	M/6251/9445/22/22
14	Ezaida binti Abdollah	M/6264/6050/11/22
15	Farah Wahida binti Ahmad Zulkifli	M/5948/8433/19/22
16	Foong Jia Min	M/6262/8775/20/22
17	Gan Min Chong	M/6203/9228/21/22
18	Gan Wan Han	M/6053/8460/19/22
19	Gerald Grino Anak Apil	M/5954/8432/19/22
20	Hazim Syahmi bin Elias	M/6131/7336/16/22
21	How See Choon	M/5945/8101/18/22
22	Ili Farhana binti Noor Azam	M/6129/8375/19/22
23	Kang Kah Chun	M/6199/8404/19/22
24	Ker Kah Hui	M/6265/9079/21/22
25	Komathi Ap Govindarajan	M/6061/8338/19/22
26	Krishna Veni Baratha Niesan, Dr.	M/5955/4912/06/22
27	Lee Eng Haw	M/6125/7425/16/22
28	Lee Pei Ying	M/6261/8248/18/22
29	Mirah binti Jamadi	M/6056/8262/18/22
30	Mohamad Azmizam bin Mohamad Noor	M/6256/8270/18/22
31	Mohamad Rosdi bin Mohamad Razali	M/6252/7207/15/22
32	Mohd Badrullah bin Buang	M/5949/8241/18/22
33	Muhamad Zaki bin Ibrahim	M/6127/7602/17/22
34	Muhammad Hidhir bin Khawory	M/6202/7135/15/22
35	Muhammad Izzat bin Ilmin	M/6260/7935/18/22
36	Muhammad Lutfi bin Abdul Rahman	M/6201/8222/18/22
37	Muhammad Mursyid bin Mazlan	M/6126/8185/18/22
38	Muhammad Sufi bin Mohd Nor	M/6058/8823/19/22
39	Munirah binti Abdul Zali, Dr.	M/5950/6181/12/22
40	Nasuha binti Zainorin	M/5951/8713/20/22
41	Nik Nor Azrizam bin Nik Norizam	M/6064/7372/17/22
42	Nor Ashikin binti Mohd Alias	M/6204/7560/16/22
43	Norhakimah Binti Abdullah	M/6263/7505/16/22
44	Norsyamimi binti Che Sulaiman	M/6054/8235/18/22
45	Nur Fazira Elyana binti Jusoh	M/6200/8347/19/22
46	Nur Izzati binti Abdol Rasul	M/5952/8322/19/22
47	Nurul Ain binti Mustafar	M/5957/7438/16/22
48	Nurul Ain Binti Nor Azman	M/5944/8717/20/22
49	Nurul Iffah binti Khalit	M/6205/7558/16/22
50	Nurul Salma binti Ab Ghani	M/6253/7621/17/22
51	Ramesh A/I Subramaniam	M/6254/8013/18/22
52	Rudy Janiuh	M/6063/4686/05/22
53	Sarani A/P Kanesan	M/6259/8591/19/22
54	Sharifah Shahida binti Hamdan@ Amir	M/6257/8369/18/22



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55	Sii Ing Kiong	M/6208/7504/16/22
56	Siti Haslina binti Ahmad Rusmili	M/6255/7178/15/22
57	Siti Mariam binti Supian	M/6052/7383/16/22
58	Soon Kean Seng	M/6206/8621/19/22
59	Sumithra a/p Balachandran	M/5956/7670/17/22
60	Tan Shueai	M/6055/8213/18/22
61	Umang Stanycie Sakai	M/6062/7616/16/22
62	Veronica Cyrila Louis	M/5953/8399/19/22
63	Wan Mahirah binti Wan Musa	M/6207/8217/18/22

### 3. New Members (MMIC)

1	Abdul Fatah bin Deraman	M/5800/9353/22
2	Abdul Izzulislam bin Abd. Hamid	M/5750/9279/22
3	Abdul Razzak Fikri bin Sharkawi	M/5983/9581/22
4	Abdullah Al-Hadi bin Ahmad Fuaad, Dr.	M/5787/9336/22
5	Afifah binti Muhamad Sidik	M/5963/9553/22
6	Afini binti Razani	M/5770/9312/22
7	Afiq Bin Anwar	M/6025/9665/22
8	Ahmad Farimin bin Ahmad Osman	M/5764/9300/22
9	Ahmad Hafizi bin Sukairi	M/5813/9368/22
10	Ahmad Hambali bin Ismail	M/6177/9902/22
11	Ahmad Muslehuddin Bin Sarun	M/5878/9436/22
12	Ahmad Razali bin Ishak, Dr.	M/5797/9349/22
13	Ahmad Syameem Bin Ahmad	M/5923/9511/22
14	Aida Ruzzana binti Ghafar	M/5880/9441/22
15	Aimi Syazwani Binti Rasni	M/6163/9874/22
16	Aizam Salmi binti Abu Bakar	M/6194/9922/22
17	Alia Diyanah binti Alwi	M/6103/9780/22
18	Alvin Lim Teik Zheng, Dr.	M/6133/9387/22
19	Amelia Chiang Kar Mun	M/6099/9774/22
20	Amelia Laccy Anak Jeffrey Kimura	M/6168/9883/22
21	Amir Yasin bin Ahmad Zairi	M/5925/9514/22
22	Amirah Khairunnisa binti Mohamad	M/5895/9465/22
23	Ang Ai Yean	M/5996/9602/22
24	Ang Jing Jing	M/6027/9668/22
25	Ang Khoon Poh	M/5784/9332/22
26	Anis Farhana binti Mohamad Muhiit	M/5736/9261/22
27	Anis Tasnim binti Md. Yusof	M/6003/9626/22
28	Anisah binti Aminuddin	M/5939/9537/22
29	Annie Lengkin Andrew Ngau	M/5846/9401/22
30	Arbaatun Adawiyah Binti Mustafa	M/5883/9446/22
31	Archina A/P Buthiyappan, Dr.	M/5986/9586/22
32	Ardy Mursyid Bin Romli	M/6142/9833/22
33	Asgfaniza Anak Mail	M/5839/9393/22
34	Atikah Binti Mohd Nasir, Dr.	M/5853/9412/22
35	Awangku Muhammad Haziq bin Awang Kamaruddin	M/6186/9912/22
36	Azfar Al Ariff bin Ahmad, Dr.	M/5874/9432/22
37	Azira binti Azahidi, Dr.	M/6084/9738/22
38	Azizah binti Baharum @ Abdul Aziz, Dr.	M/5942/9543/22
39	Azlan Shah bin Mustafa	M/5966/9557/22
40	Azreena binti Mastor	M/6159/9867/22
41	Azrul Nurfaiz Bin Mohd Faizal	M/6083/9737/22
42	Badariah binti Abdul Rawi	M/6114/9799/22
43	Biltiah binti Ubil	M/6119/9807/22
44	Bong Woei Ping	M/5968/9559/22
45	Boon Yih Hui, Dr.	M/5969/9560/22
46	Boyrey Richie Richardor Geoffery	M/5771/9313/22
47	Chah Chee Keong, Dr.	M/5960/9549/22
48	Chai We Mine	M/5898/9468/22

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49	Chai Yee Wen	M/5795/9345/22
50	Chan Kah Fai, Dr.	M/5812/9366/22
51	Che Mohd Aizal bin Che Mohd	M/5888/9453/22
52	Chew Ker Yin, Dr.	M/6146/9843/22
53	Chong Jin Mei	M/6036/9685/22
54	Chong Teck Lean	M/6023/9662/22
55	Chong Zan Yang	M/6035/9683/22
56	Chou Kian Weng, Dr.	M/6116/9803/22
57	Christopher Shang Che Hau	M/6112/9795/22
58	Chua Wy Sheng	M/5840/9394/22
59	Chuah Rou En	M/5748/9275/22
60	Clifford Anak Junaidi Kutoi	M/5836/9388/22
61	Cornelius Presley anak Ges	M/6032/9677/22
62	Coswald Stephen Sipaut @ Mohd Nasri, Prof. Dr.	M/6096/9769/22
63	Dailly Nabilah binti Lamjin	M/6041/9696/22
64	Dayang Norafizan binti Awang Chee, Dr.	M/6007/9635/22
65	Desmond Ang Teck Chye, Dr.	M/5756/9291/22
66	Dian Evon	M/5775/9320/22
67	Dyana Adziera binti Jamaluddin	M/5793/9342/22
68	Dzulkiflee Bin Ismail, Dr.	M/5809/9362/22
69	Eda Yuhana binti Ariffin, Dr.	M/6197/9925/22
70	Edita Sipin	M/6178/9903/22
71	Eleen Dayana binti Mohamed Isa, Dr.	M/6174/9893/22
72	Ellie Teo Yi Lih, Dr.	M/6184/9910/22
73	Emily S Majanun	M/6024/9663/22
74	Engku Norhafizah binti Engku Ali	M/6019/9656/22
75	Erma Fatihah binti Muhammad	M/5759/9295/22
76	Fairuz Al Wahida binti Mohamad Yasin	M/6190/9916/22
77	Farah Fatin Binti Ab Rahman	M/6108/9790/22
78	Farah Nadiyah Binti Jantan	M/5907/9479/22
79	Farah Syazwani binti Rasdi	M/6118/9805/22
80	Farahanis Syazwana binti Mohamad Khairudin	M/5825/9371/22
81	Farahany Jarandi	M/5924/9513/22
82	Farahiza Izzatie binti Mohd Rani	M/5929/9521/22
83	Farhana Binti Ismail	M/5856/9416/22
84	Farhanah binti Jarkasi	M/6173/9892/22
85	Fariz bin Adzmi, Dr.	M/6080/9730/22
86	Fasihah binti Johary	M/5877/9435/22
87	Fathin Nurshafiqah Binti Mohd Zamri	M/5962/9551/22
88	Fazila binti Zakaria	M/5999/9608/22
89	Fera Shima binti Abdul Aziz	M/5869/9426/22
90	Fifi Anura binti Azhar	M/6183/9909/22
91	Fung Shin Yee, Dr.	M/5792/9341/22
92	Gan Juan Zheng	M/6111/9794/22
93	Goh Tee Seng	M/5808/9361/22
94	Gurdeep Kaur A/P Baksis Singh	M/5891/9460/22
95	Hashazirah Binti Mohamad Hassan	M/6091/9760/22
96	Haw Yien May	M/5932/9525/22
97	Hazalina binti Hamzah	M/5943/9545/22
98	Hazira binti Ngah	M/6169/9887/22
99	Hemaadevi A/P Paramasivan	M/5992/9594/22
100	Hemadevi A/P Balasubramaniam	M/5912/9491/22
101	Intan Juliana binti Shamsudin, Dr.	M/5763/9299/22
102	Irain Binte Bahari	M/6072/9721/22
103	Irmaizatussyehdany binti Buniyamin	M/6018/9655/22
104	Issha Nadirah binti Ismail	M/6187/9913/22
105	Iswariya a/p Ganasan	M/5743/9269/22
106	Izan Izwan Bin Misnon, Dr.	M/5852/9411/22
107	Izzuddin Bin Abdul Rahman	M/6002/9617/22

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108	Jacqueline Jenelee Sijore	M/6014/9650/22
109	Jasper Anji Anak Augustine Unjah	M/6172/9891/22
110	Jerrel Juip	M/5744/9270/22
111	Joanne Sonia binti Stanely	M/6110/9792/22
112	Junaidi bin Mohamad Nasir	M/6150/9852/22
113	Kairunisha binti Abd. Rajan	M/6073/9722/22
114	Kalaivani A/P David	M/5913/9492/22
115	Kannan a/l Karupaya	M/5735/9078/22
116	Karthi A/L Suresh	M/5915/9498/22
117	Kasturi A/P R Muthoosamy, Dr.	M/5906/9478/22
118	Khairil Anuar bin Jantan, Dr.	M/5776/9322/22
119	Khairunnisa binti Embi	M/6090/9755/22
120	Khalida binti Salleh	M/5742/9268/22
121	Khamisah binti Mhd Sarif	M/6048/9709/22
122	Khoo Kuan Shiong, Dr.	M/5822/9274/22
123	Komathy a/p Veerasinghan	M/6136/9819/22
124	Krissiana binti Jamirin	M/5740/9266/22
125	Ku Norsyafieka binti Ku Harith	M/5806/9359/22
126	Kwek Saw Lian	M/6193/9920/22
127	Lai Ay Ping	M/5934/9529/22
128	Lee Choy Sin, Assoc. Prof. Dr.	M/5914/9493/22
129	Lian Huai Wei	M/5921/9505/22
130	Liew Chee Sum	M/5803/9356/22
131	Lily Suhaila binti Yacob	M/5747/9273/22
132	Lim Chu Er	M/6042/9697/22
133	Lim Kuan Hon, Prof. Dr.	M/5985/9585/22
134	Lim Pei Yee	M/5785/9333/22
135	Lim Sze Theng	M/5871/9428/22
136	Lim Yong Wei, Cheryl	M/5908/9482/22
137	Ling Sheau Jing	M/5896/9466/22
138	Liyana Amira binti Askan	M/5801/9354/22
139	Loh Pei Zhen	M/5997/9603/22
140	Low Heng Heng	M/6043/9698/22
141	Low Joo Yee	M/5980/9576/22
142	Low Kah Hin, Dr.	M/5783/9331/22
143	Lukman Hakim bin Hussin	M/5826/9373/22
144	Mah Wee Li, Dr.	M/6162/9873/22
145	Maisara Shahrom binti Raja Shahrom, Dr.	M/5737/9262/22
146	Maizatul Najwa Binti Jajuli, Dr.	M/6034/9680/22
147	Malahah binti Mohamed	M/5901/9472/22
148	Marsaliana A/P Tumar	M/6175/9896/22
149	Maswati binti Basri	M/6010/9643/22
150	Mazlita binti Yahya	M/5766/9305/22
151	Md Bazlul Mobin Siddique, Dr.	M/6170/9888/22
152	Michele Mejin	M/6044/9701/22
153	Mohamad Fahrul Radzi bin Hanifah, Dr.	M/6134/9408/22
154	Mohamad Shariff bin Shahrman Subarmaniam	M/6100/9775/22
155	Mohamad Shazeli bin Che Zain, Dr.	M/5931/9524/22
156	Mohamad Syahir Bin Mohd Sabri	M/5919/9502/22
157	Mohammad Azhar bin Mat Zin	M/5867/9423/22
158	Mohammad Nur Hafiz bin Hamid	M/5827/9375/22
159	Mohammad Qamarruddin bin Rokei	M/5989/9590/22
160	Mohammad Sayuti bin Taib	M/5865/9419/22
161	Mohd Abdul Hadi bin Ab Rahman	M/5897/9467/22
162	Mohd Alif bin Ab Aziz	M/5755/9290/22
163	Mohd Fahmi bin Mat Zin	M/6154/9859/22
164	Mohd Fairuz bin Soh @ Yusoff	M/6139/9825/22
165	Mohd Faris Hazmy bin Mohd Najib	M/5746/9272/22
166	Mohd Firkhry Fadhly bin Abdul Ghani	M/6047/9707/22

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167	Mohd Hadri Bin Abdul Karim	M/5887/9451/22
168	Mohd Haniff bin Wahid, Dr.	M/6148/9848/22
169	Mohd Hilmi bin Noh, Dr.	M/5879/9437/22
170	Mohd Ridhwan Bin Adam, Dr.	M/5854/9413/22
171	Mohd Rushashraaf bin Ramli	M/5972/9563/22
172	Mohd. Salman bin Mohd Razali	M/6067/9713/22
173	Mook Wei Tze, Dr.	M/5889/9454/22
174	Muhamad Ashari bin Hashim	M/6101/9777/22
175	Muhamad El Hafiz bin Ayas	M/5930/9522/22
176	Muhamad Farid bin Mazlan	M/5911/9490/22
177	Muhamad Hazim bin Ya	M/5978/9574/22
178	Muhamad Sharul Nizam Bin Awang	M/6037/9688/22
179	Muhamad Syafiq Bin Mohd Nor	M/6117/9804/22
180	Muhammad Afiq bin Abdullah	M/6026/9666/22
181	Muhammad Akbar bin Badrulhishammudin	M/6152/9854/22
182	Muhammad Ameerullah Bin Sahudin, Dr.	M/5940/9540/22
183	Muhammad Amirul Hakim bin Lokman Nohhakim	M/5779/9326/22
184	Muhammad Anas Yuzairi bin Mohd Yusri	M/5866/9422/22
185	Muhammad Azam bin Muhammad Zaki	M/5753/9284/22
186	Muhammad Faiz bin Ali	M/5909/9483/22
187	Muhammad Farizul bin Md Ismail	M/5829/9378/22
188	Muhammad Firdaus bin Baharom	M/5828/9377/22
189	Muhammad Hafiz Fakhrudin bin Abdul Halim	M/5810/9363/22
190	Muhammad Hakim bin Shafie, Dr.	M/6098/9772/22
191	Muhammad Idzham bin Mohd Zuki	M/5832/9382/22
192	Muhammad Ismin Hilman bin Ismail	M/6143/9834/22
193	Muhammad Izzat Harith bin Nordin	M/6106/9787/22
194	Muhammad Naufhal Bin Abdul Rasid	M/5838/9391/22
195	Muhammad Reezhuan bin Russman	M/6155/9861/22
196	Muhammad Ridzuan bin Alkharib Shah	M/5781/9328/22
197	Muhammad Syahmee bin Azree	M/5752/9281/22
198	Muhammad Ubaidah Syafiq bin Mustafa, Dr.	M/5858/9418/22
199	Muhammad Zamir Bin Othman, Dr.	M/6068/9714/22
200	Muhammad Zuhid Bin Yunus	M/5802/9355/22
201	Muhammad Zyarif Fikri bin Abdul Razak	M/5780/9327/22
202	Mukhtaruddin bin Musa, Dr.	M/6196/9924/22
203	Muliana binti Asis	M/6185/9911/22
204	Naharullah bin Jamaluddin, Dr.	M/5791/9340/22
205	Naizah binti Zakaria	M/6070/9717/22
206	Najwa Izzati Binti Zainal	M/5976/9571/22
207	Nanthini A/P Selvadurai	M/6038/9691/22
208	Natasha Stella Tibon	M/6180/9906/22
209	Nazikussabah binti Zaharudin, Dr.	M/5868/9425/22
210	Ng Chi Huey, Dr.	M/6160/9868/22
211	Nik Athila binti Nik Ma	M/6192/9919/22
212	Nik Nur Shamiha binti Nik Dzulkefli	M/5988/9589/22
213	Noor Ashikin binti Yusof	M/5843/9398/22
214	Noor Azwaziah binti Malik	M/5749/9278/22
215	Noor Nazihah Binti Baharim	M/6144/9836/22
216	NOOR SHERYNA BINTI JUSOH	M/5794/9344/22
217	Noor Syafawati binti Md Noor	M/5935/9531/22
218	Noorhapizah Binti Napiah	M/5762/9298/22
219	Noorsha Binti Shahdan	M/6086/9741/22
220	Nor Afzan binti Kamaludeen	M/5991/9593/22
221	Nor Amin bin Hassan	M/6012/9645/22
222	Nor Amira Binti Marfur	M/5993/9596/22
223	Nor Balqis Binti Shafie	M/6195/9923/22
224	Nor Fadilah binti Chayed	M/6097/9770/22
225	Nor Halimah Binti Abd Talib	M/6078/9727/22

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227	Nor Syahida binti Ahmad Bakarim	M/6164/9875/22
228	Noramin bin Mohd Nor	M/6074/9723/22
229	Noramira binti Saad	M/5799/9351/22
230	Norariza binti Ahmad	M/5782/9329/22
231	Norfareha binti Abu Bakar	M/5964/9554/22
232	Norilyani Izzati Binti Hasanuddin	M/6040/9693/22
233	Norin Hafizah binti Rahim	M/5807/9360/22
234	Norlia Binti Baharun, Dr.	M/5841/9395/22
235	Norliyana Binti Jeinia	M/5798/9350/22
236	Normah binti Awang, Dr.	M/5902/9473/22
237	Normastura Binti Abdul Ghani @ Mohd Zahid	M/6121/9810/22
238	Norsyahida Binti Rahim	M/6105/9786/22
239	Norsyahidah binti Mohd Hidzir, Dr.	M/6030/9671/22
240	Norul Naziraa binti Ahmad Jamlus	M/5788/9337/22
241	Norzahir bin Sapawe, Dr.	M/5758/9293/22
242	Norzahirah binti Md Zarin	M/5851/9410/22
243	Nuha binti Awang, Ts. Dr.	M/5917/9500/22
244	Nur Adilla binti Zulkipli	M/6115/9801/22
245	Nur Afifah Farhana binti Roslan	M/6140/9830/22
246	Nur Aida binti Arasid	M/5905/9477/22
247	Nur Ain binti Abu Osman	M/6039/9692/22
248	Nur Aina Syazlin Binti Azmi	M/5850/9409/22
249	Nur Aishah binti Rahmat	M/6156/9862/22
250	Nur Amina binti Zainal	M/5875/9433/22
251	Nur Anis Zafirah binti Zainordin	M/6029/9670/22
252	Nur Ashilla binti Abdul Aziz	M/5768/9310/22
253	Nur Athira Ain Binti Rasidi	M/6031/9676/22
254	Nur Atikah binti Mohd Saad	M/6011/9644/22
255	Nur Dalilah binti Ahmad Naim	M/5872/9430/22
256	Nur Eizzati binti Zambri	M/6113/9798/22
257	Nur Fashikin Adilah binti Mat Nasir	M/5899/9469/22
258	Nur Fatm Azueen binti Rozaini	M/6045/9702/22
259	Nur Hanani Binti Hasana	M/5904/9476/22
260	Nur Hasanah binti Mohd Jumali @ Mohd Yusop	M/6085/9740/22
261	Nur Hidaayah binti Noor Faizal	M/5982/9580/22
262	Nur Hidayah binti Deris	M/6008/9636/22
263	Nur Hidayah binti Hamzah	M/5774/9318/22
264	Nur Hidayah binti Mohd Khalil Khasah	M/6182/9908/22
265	Nur Hidayati binti Jamil	M/6017/9654/22
266	Nur Hidayatul Akmal binti Mohd Amir	M/6165/9876/22
267	Nur Ikadewi binti Sarimin	M/6137/9822/22
268	Nur Izzati binti Jaffri @ Jafferi	M/5804/9357/22
269	Nur Liyana Binti Ismail, Dr.	M/5773/9316/22
270	Nur Qamarina Afrina Binti Mustapha	M/5848/9403/22
271	Nur Raudhah binti Misbah	M/6089/9751/22
272	Nur Safirah binti Azmi	M/5967/9558/22
273	Nur Shuhada binti Azman	M/5893/9462/22
274	Nur Syafiqah binti Shaipulizan	M/6141/9831/22
275	Nur Syamimi Nazihah binti Ahmad Jailani	M/5882/9444/22
276	Nur Syazana binti Muhammad Puzi	M/5886/9450/22
277	Nurdiana binti Othman	M/5918/9501/22
278	Nur-Fadhilah binti Mazlan, Dr.	M/6179/9905/22
279	Nurfazilah binti Zainal Abu	M/5834/9385/22
280	Nurhazimah binti Zulkarnain	M/6122/9811/22
281	Nurizzahtul Atiqah binti Abd Rashid	M/6176/9897/22
282	Nurjahirah binti Janudin, Dr.	M/5920/9503/22
283	Nurkhalida binti Kamal, Dr.	M/5760/9296/22
284	Nurshahira binti Mohd Noor	M/6191/9917/22

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286	Nursyazwani binti Anuar	M/5937/9534/22
287	Nurul Afirah Binti Alias	M/5926/9515/22
288	Nurul Aida binti Nordin	M/5903/9474/22
289	Nurul Ain Binti Mohamad	M/6022/9660/22
290	Nurul Athirah binti Ismail, Dr.	M/6004/9628/22
291	Nurul Atikah bt Mohd Mokhtar, Dr.	M/5961/9550/22
292	Nurul Elma binti Sabri	M/5769/9311/22
293	Nurul Hayati binti Yusof, Dr.	M/5824/9306/22
294	Nurul Izzwani binti Burhan	M/5890/9457/22
295	Nurul Nadiah binti Abu Bakar	M/6161/9870/22
296	Nurul Nadiah binti Hamidon	M/5916/9499/22
297	Nurul Najidah binti Mohamed, Dr.	M/5998/9605/22
298	Nurul Syafawani binti Ami Ludin	M/5738/9264/22
299	Nurul Syazwani binti Alias	M/5977/9572/22
300	Nurul Syifa' binti Lotfiamir	M/6076/9725/22
301	Nurul Syuhada binti Mohamad Sobri	M/5933/9528/22
302	Nurulshakinah binti Ramdzan	M/6153/9856/22
303	Nuur Hidayah binti Yusof	M/5873/9431/22
304	Ong Jing Yi	M/6093/9764/22
305	Ong Kok Tong	M/5892/9461/22
306	Pamela Mcgee AK Sakai	M/5833/9383/22
307	Parameswary A/P Balasubramaniam	M/5936/9533/22
308	Phan Tze Pei	M/6013/9648/22
309	Phang You Kang	M/6079/9728/22
310	Pravina A/P Deligannu, Dr.	M/5975/9570/22
311	Rafidah binti Md Yusof	M/5971/9562/22
312	Raja Mohamad Hafriz bin Raja Shahruzzaman, Dr.	M/5796/9346/22
313	Rizal Fazliwandee bin Dun	M/5772/9314/22
314	Rizwan Bin Ahim	M/5844/9399/22
315	Rogayah binti Abu Hassan @ Mohamad	M/6046/9704/22
316	Rohaya Binti Mohd Noor	M/5857/9417/22
317	Ronnie Sakai	M/6095/9768/22
318	Roshaniza binti Shukmi	M/6149/9849/22
319	Rosmawani binti Mohammad, Dr.	M/5845/9400/22
320	Rozaini binti Che Amat	M/5927/9517/22
321	Rozila binti Mohamad	M/5885/9449/22
322	Rubia binti Idris, Dr.	M/6107/9788/22
323	Rusydah binti Mat Zin Boestami	M/5761/9297/22
324	Saiful Akramin bin Mhd Nor	M/5745/9271/22
325	Sandra Ngui Ling Ning	M/5814/9369/22
326	Sathya Selan A/L Kuppusamy	M/5884/9448/22
327	Sazlinda binti Kamaruzaman, Dr.	M/6069/9715/22
328	Seow Lay Jing, Dr.	M/6021/9659/22
329	Shahira binti Samat	M/5831/9381/22
330	Shahrin Nizam Bin Mustafa	M/6066/9712/22
331	Sharaffie bin Mohamad Zain	M/5786/9334/22
332	Sharifah Nadzirah binti Wan Hamid	M/6077/9726/22
333	Sharifah Norain binti Mohd Sharif, Dr.	M/5910/9486/22
334	Sharifah Nurfadhlin Afifah binti Syed Azhar	M/5970/9561/22
335	Sharon A/P Fatinathan, Dr.	M/5757/9292/22
336	Shuhaili Binti Rashid	M/5855/9415/22
337	Sia Kar Wei	M/6189/9915/22
338	Siti Aishah Binti Mohamad Rosidek	M/5973/9567/22
339	Siti Amira binti Mat Hussin, Dr.	M/6104/9784/22
340	Siti Azura binti Abdul Wahap	M/6120/9808/22
341	Siti Efliza binti Ashari, Dr.	M/5778/9325/22
342	Siti Faieza binti Abd Hadi	M/6092/9761/22
343	Siti Farhana binti Hisham	M/6033/9679/22

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345	Siti Fatimah Binti Mohd Najib	M/6065/9711/22
346	Siti Maryam Binti Jasman, Dr.	M/6071/9720/22
347	Siti Munirah binti Mohd Faudzi, Dr.	M/5987/9587/22
348	Siti Nabilla binti Mahalim	M/5805/9358/22
349	Siti Norzainatulzeha Binti Arba'a	M/5842/9396/22
350	Siti Nur Hajar Binti Idris	M/6081/9734/22
351	Siti Nurain binti Md Isa	M/5965/9555/22
352	Siti Nurhanis binti Ibrahim	M/5765/9302/22
353	Siti Nurhazlin binti Jaluddin	M/5881/9443/22
354	Siti Nurliana binti Mohd Rosli	M/5811/9365/22
355	Siti Rasyidah binti Sapie	M/6123/9812/22
356	Siti Suraya binti Shasruddin	M/6145/9838/22
357	Siti Zahirah binti Mohd Isa	M/5922/9507/22
358	Son Ee Woon	M/6124/9817/22
359	Soo Quai Siang, Kelvin	M/6082/9735/22
360	Sree Vaneesa A/P Nagalingam, Dr.	M/5941/9542/22
361	Sri Ardianti binti Abd Muis	M/5990/9592/22
362	Sridaran A/L Gopalan	M/6147/9847/22
363	Suhaila binti Sapari, Dr.	M/6094/9766/22
364	Sutera binti Tahir	M/6075/9724/22
365	Suzaimi binti Johari	M/5958/9546/22
366	Suziana Anak Pilang	M/5837/9389/22
367	Syahida Nasuha binti Mohd Bukhari	M/6009/9637/22
368	Syahrul Syafiin bin Sulaiman	M/5777/9323/22
369	Syaidatul Shafiqah Binti Yusrirohani	M/5984/9583/22
370	Syarina Azreen binti Abd Kamar	M/5739/9265/22
371	Syaza binti Azhari, Dr.	M/6188/9914/22
372	Syazana Ameera Binti Syed Amri	M/6087/9743/22
373	Syazwani binti Mohd Fadzil, Dr.	M/5823/9335/22
374	Syed Muhammad Al-Amsyar Bin Syed Abd Kadir, Dr.	M/5928/9518/22
375	Syukriyah binti Ishak, Dr.	M/6028/9669/22
376	Tan Boon Shing, Dr.	M/6158/9865/22
377	Tan Hong Yee, Dr.	M/6016/9653/22
378	Tan Wei Wei	M/6006/9633/22
379	Tan Yong Chee, Dr.	M/5815/9370/22
380	Tay Kheng Soo, Dr.	M/5849/9405/22
381	Tengku Khamanur Azma binti Tg. Mohd Zamri, Dr.	M/6015/9651/22
382	Tengku Nur Ayuni binti Tuan Sabri	M/5789/9338/22
383	Teoh Mei Lin	M/5894/9464/22
384	Thipashini a/p Ganesan	M/6151/9853/22
385	Tye Ying Ying, Dr.	M/5876/9434/22
386	Uma A/P Omandran	M/5900/9471/22
387	Umi Zulaikha binti Mohd Azmi, Dr.	M/6132/9384/22
388	Valerie Cheo Anak Casimir	M/5995/9601/22
389	Vasagee A/P Elencovan	M/5981/9577/22
390	Vishattre A/P Moganin	M/6138/9824/22
391	Wan Abd Halim bin Wan Ilias	M/5790/9339/22
392	Wan Amira Iffah binti Wan Aidi Rahmat	M/5979/9575/22
393	Wan Faraizati Binti Wan Ismail	M/6109/9791/22
394	Wan Norfirdaus bin Wan Salleh	M/6005/9631/22
395	Wan Nur Syuhaila Binti Mat Desa, Dr.	M/5830/9380/22
396	Wan Nurul Azwaniey Binti Wan Din	M/5974/9568/22
397	Wan Nurul Hidayah binti Yaacob	M/6000/9615/22
398	Wan Sharifatun Handayani binti Wan Zullkiplee	M/5751/9280/22
399	Wan Yuen Yu	M/5847/9402/22
400	Wan Zuraida Wan Mohd Zain, Dr.	M/6020/9657/22
401	Wan Zurina binti Samad, Dr.	M/6102/9778/22
402	Wong Siak Chung	M/6171/9889/22

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405	Yeoh Zhi Rui	M/6001/9616/22
406	Yong Jun Hoong	M/6181/9907/22
407	Yong Youk Mei	M/5835/9386/22
408	Yuhaneswary a/p Sugumaran	M/5754/9285/22
409	Yusri bin Mohd Yunus	M/6167/9882/22
410	Zainul Akmar bin Zakaria, Assoc. Prof. Dr.	M/5959/9548/22
411	Zatil Afifah Binti Omar	M/6088/9746/22
412	Zharif Bin Che Zainuddin	M/5870/9427/22
413	Zulfadhlin Niami Bin Musa @ Abdul Kader	M/6049/9710/22
414	Zuliana binti Ahmad	M/5994/9600/22

#### 4. New Licentiatees (LMIC)

1	Ahmad Aizam Hakim Bin Azemi	L/3175/9516/22
2	Ahmad Nazmi Putra Bin Haizan	L/3177/9523/22
3	Amelia a/k Jakob	L/3261/9739/22
4	Anna Cheah	L/3221/9630/22
5	Anuar bin Azri	L/3167/9495/22
6	Arina Hidayah binti Irhamni	L/3271/9759/22
7	Arinnie Binti Sahrin	L/3230/9649/22
8	Aruna a/p Selvam	L/3149/9424/22
9	Ashkwinee a/p Siramallo	L/3156/9458/22
10	Ayuffitria binti Abdul Rahman	L/3138/9343/22
11	Azmien bin Jamal	L/3124/9263/22
12	Azyyati binti Mohd Padzil	L/3301/9844/22
13	Chang Jun Hoong	L/3150/9429/22
14	Charles Rolend Richard	L/3217/9624/22
15	Cheng Hsze Yuan	L/3127/9282/22
16	Chia Kah Min	L/3262/9742/22
17	Ching Xiao Ting	L/3243/9687/22
18	Choo Xin Jia	L/3143/9379/22
19	Chua Jia Xin	L/3233/9664/22
20	Dayang Nur Zarith Annisa binti Awg Salleh	L/3159/9470/22
21	Dayangku Siti Nurfariza binti Awang Ahmad Safri	L/3184/9407/22
22	Drizellia Amy Anak Santuz	L/3227/9641/22
23	Dzulhafiz Said bin Hasbi	L/3216/9623/22
24	Esther Rani Anak Manila	L/3250/9705/22
25	Eugene Loh Ying Xian	L/3289/9815/22
26	Fakhrul Iman bin Mohammad	L/3125/9276/22
27	Farah Izyan binti Abdul Aziz	L/3283/9797/22
28	Faris Asyraf Bin Alias	L/3242/9686/22
29	Faten Ahada binti Mohd Azli	L/3311/9885/22
30	Fatin Shahirah binti Azizan	L/3170/9504/22
31	Felicity Valarie Anak Jawan	L/3228/9642/22
32	Hairiyatul Aliyah binti Abdul Rahim	L/3269/9756/22
33	Hasreen Khairani binti Salehan	L/3196/9588/22
34	Hazirah binti Shariruzi	L/3257/9719/22
35	Hazirah Syahirah Binti Zakria	L/3198/9595/22
36	Heng Chun Long	L/3176/9519/22
37	Ho Kar Wei	L/3174/9512/22
38	Iffah Syazana binti Rusli	L/3194/9582/22
39	Jayalakshmi a/p Rajakumar	L/3249/9703/22
40	Jeevasonthari A/P Gunasegaran	L/3161/9484/22
41	Jennifer Tan Ai Ping	L/3238/9678/22
42	Jong Su Jing	L/3313/9890/22
43	Kanagaraj A/L Rajandran	L/3202/9604/22
44	Khoo Yee Shu	L/3213/9620/22
45	Khor Jing Heng	L/3319/9921/22



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46	Khor Qiongzhi	L/3302/9846/22
47	Kong Siew Fung	L/3258/9729/22
48	Ku Cui Lyn, Emeline	L/3281/9789/22
49	Lai Hui Ting	L/3220/9629/22
50	Lau Siau Ting	L/3247/9699/22
51	Lau Yeh Siang, Dr.	L/3199/9597/22
52	Law Shiaw Yee	L/3307/9869/22
53	Lee Cheng Shoou, Dr.	L/3155/9455/22
54	Lee Khai Hong	L/3240/9682/22
55	Lee Shu Zhen	L/3208/9612/22
56	Lee Soon Thing	L/3153/9442/22
57	Lee Zi En	L/3142/9374/22
58	Ler Lien Jia	L/3182/9541/22
59	Lim Huey Chen	L/3246/9695/22
60	Lim Soo Tian	L/3274/9765/22
61	Lina Amirah Binti Mohd Safrushahar	L/3304/9855/22
62	Lina Khalida binti Norshariffudin	L/3211/9618/22
63	Ling Jem Shan	L/3222/9632/22
64	Liyana Nafeesa binti Mohamad	L/3130/9288/22
65	Liyana Salwa binti Mohd Nazir	L/3276/9773/22
66	Low Ken Ming	L/3173/9510/22
67	Maegan Lee Xin En	L/3254/9573/22
68	Mariam Jamela Binti Ahmad Nasir	L/3234/9667/22
69	Matavi A/P Manohar	L/3295/9832/22
70	Mayrliza Ng Hui Ni	L/3137/9324/22
71	Mohamad Arif bin Abu Bakar	L/3291/9820/22
72	Mohamad Farouk bin Mezan	L/3164/9488/22
73	Mohamad Hafiz bin Mohd Rizwan	L/3263/9744/22
74	Mohamad Imran Firdaus bin Mhd Sawal	L/3134/9307/22
75	Mohamad Khir Syafiq bin Moktar	L/3278/9779/22
76	Mohammad Azri Bin Md Hanafiah	L/3223/9634/22
77	Mohammad Danish Ahnaf bin Faizul Azlan	L/3203/9606/22
78	Mohammad Hafizzudin bin Anaffiah	L/3298/9840/22
79	Mohammad Zulkifli Bin Mohamad Zaid	L/3294/9828/22
80	Mohd Amirul bin Yunos	L/3308/9871/22
81	Mohd Dzulkiply Bin Spawi	L/3264/9748/22
82	Mohd Hairudin bin Haryadi	L/3158/9463/22
83	Muhamad Adib Aizuddin bin Shafie	L/3287/9813/22
84	Muhamad Adib bin Ahmad	L/3309/9872/22
85	Muhamad Akif Aizuddin bin Jasni	L/3259/9732/22
86	Muhammad Amirul Hisham bin Muhamad Aini @ Ahmad	L/3272/9762/22
87	Muhammad Aniq Imran bin Rosli	L/3279/9783/22
88	Muhammad Azza bin Mustafa	L/3275/9767/22
89	Muhammad Firdaus Bin Zainuddin	L/3292/9823/22
90	Muhammad Hafiz Ashraf Bin Mat Zaid	L/3181/9538/22
91	Muhammad Hakimi bin Senun	L/3273/9763/22
92	Muhammad Hazwan Dinhusain Bin Johari	L/3296/9835/22
93	Muhammad Imran bin Sha'ari	L/3232/9658/22
94	Muhammad Raimee Bin Serbi	L/3237/9675/22
95	Muhd Amir Asyraf bin Noh	L/3188/9556/22
96	Mujibuddin bin Morshidi	L/3195/9584/22
97	Nabilakmal bin Nazreen Elangko	L/3268/9754/22
98	Naqibah binti Kamaruzzaman	L/3162/9485/22
99	Nassirin Bin Kassim	L/3179/9532/22
100	Nazifah Binti Mohd Hashim	L/3299/9841/22
101	Nazirah Binti Razali	L/3255/9716/22
102	Neo Soon Huat	L/3316/9901/22
103	Ng Teng Lit	L/3133/9304/22
104	Ng Yen Ling	L/3282/9796/22

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105	Ng Yin Zhuang	L/3303/9851/22
106	Noor Haida binti Sebran	L/3305/9858/22
107	Nor Hafiza binti Ishak	L/3285/9802/22
108	Nor Siti Fatimah binti Arif Shah	L/3192/9569/22
109	Norhafiza Binti Sulaiman	L/3207/9611/22
110	Norzaimi bin Harun	L/3253/9539/22
111	Nur Afiqah Binti Mohammad Yuri	L/3318/9918/22
112	Nur Afrina binti Abdul Wahab	L/3310/9879/22
113	Nur Alisa Binti Aminudin	L/3229/9647/22
114	Nur Anissa Binti Zainul Abidin	L/3226/9640/22
115	Nur Athirah Nasuha Binti Mohamad Riza	L/3186/9547/22
116	Nur Atiqah binti Mohd Fuad	L/3141/9364/22
117	Nur Azlina binti Adris	L/3314/9895/22
118	Nur Basirah binti Abdul Hadib	L/3128/9286/22
119	Nur Izzah binti Roslan	L/3297/9839/22
120	Nur Izzatul Farahin binti Zulkurnain	L/3187/9552/22
121	Nur Lina Binti Zulkipeli	L/3241/9684/22
122	Nur Liyana Hanani binti Zakaria	L/3145/9404/22
123	Nur Nadhirah Binti Roslee	L/3144/9390/22
124	Nur Nadhirah binti Zulkarnain	L/3165/9489/22
125	Nur Nadira binti Hazani	L/3139/9348/22
126	Nur Rasheeqa Aqilah binti Yusman	L/3315/9900/22
127	Nur Safinah binti Ahmad Daud	L/3166/9494/22
128	Nur Shahira Binti Jakariah	L/3146/9406/22
129	Nur Syakirah binti Amri	L/3300/9842/22
130	Nurfadhilah binti Abdullah	L/3293/9827/22
131	Nurfarhana Binti Shukri	L/3277/9776/22
132	Nurfatin Liyana Binti Yussof	L/3151/9438/22
133	Nurhaifa Adilla binti Johari	L/3147/9414/22
134	Nurin Irdina binti Shariff	L/3163/9487/22
135	Nurliana binti Zalzaifulkhafiz	L/3265/9750/22
136	Nurlidza binti Arsat	L/3178/9526/22
137	Nurmelissa Hanani binti Hamidon	L/3206/9610/22
138	Nurul Aini binti Mohd Johari	L/3148/9421/22
139	Nurul Amani binti Mohd Zaini	L/3157/9459/22
140	Nurul Azima binti Abd Aziz	L/3197/9591/22
141	Nurul Hidayah binti Rusli	L/3140/9352/22
142	Olivia Livan Emang	L/3193/9579/22
143	Ooi Yin Yee	L/3189/9564/22
144	Phua Chee Seong	L/3280/9785/22
145	Priyamalar A/P Rakupathy	L/3306/9863/22
146	Puteri Adelene Syazwina Binti Norzaimi	L/3270/9758/22
147	Puuvinna a/p Jeyasangar	L/3235/9672/22
148	Rabitah binti Mohamed Hanafiah	L/3239/9681/22
149	Rasvini a/p Asogan	L/3236/9674/22
150	Rasyiqah binti Abdul Rani	L/3284/9800/22
151	Razleen Sofea Binti Md Rashidi	L/3320/9926/22
152	Saipul Bin Mohd Saleh	L/3191/9566/22
153	Santhya Letchumi a/p Tegaraja	L/3218/9625/22
154	Seah Haan Shin	L/3251/9706/22
155	Severster Chabu Anak Sungom	L/3183/9544/22
156	Shalini d/o Dhevarajan	L/3129/9287/22
157	Shaza Binti Ahmad Nazuki @ Marzuki	L/3224/9638/22
158	Shazrul Hasry bin Shamsudin	L/3290/9818/22
159	Sheryl Lee Wan Yi	L/3171/9506/22
160	Shirley Chai Sing Yee	L/3219/9627/22
161	Siew Hou Yan	L/3160/9475/22
162	Siraj bin Muhamad Ridzuan Nasaruddin	L/3212/9619/22
163	Siti Farinah binti Jaiddin	L/3126/9277/22

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164	Siti Khadijah binti Husin	L/3312/9886/22
165	Siti Nor Amalina binti Mohd Akhir	L/3267/9753/22
166	Siti Norazmira binti Mohd Noor	L/3131/9289/22
167	Siti Nur Aqilah Binti Rosmat	L/3248/9700/22
168	Siti Nur Hazirah binti Redzuan	L/3185/9530/22
169	Siti Rabiha Binti Abdul Jalal	L/3210/9614/22
170	Siti Salwa Binti Mohamed Salleh	L/3190/9565/22
171	Siti Shahidah binti Khairuddin	L/3136/9319/22
172	Stefanie Leona Anak Pasang	L/3317/9904/22
173	Stephanie Anne Yeap	L/3180/9536/22
174	Suki Er Shu Qi	L/3172/9508/22
175	Tai Nyok Ling, Dr.	L/3200/9598/22
176	Tan Boon Hoe	L/3231/9652/22
177	Tan Cheong Siong	L/3169/9497/22
178	Tan Hui Ling	L/3245/9690/22
179	Tan Siew Lan	L/3215/9622/22
180	Tan Xiang Han	L/3205/9609/22
181	Teh Chin Loong	L/3209/9613/22
182	Teng Siaw Lin	L/3260/9733/22
183	Teoh Jay Kee	L/3225/9639/22
184	Vest Vikkison Anak Moses	L/3152/9439/22
185	Wee Siew Wen	L/3252/9708/22
186	Willie Maxwell Nicholas	L/3135/9315/22
187	Wong Boon Keat	L/3256/9718/22
188	Wong Wai Yee	L/3201/9599/22
189	Wong Yung Ting	L/3214/9621/22
190	Yap Leong Khen	L/3168/9496/22
191	Yeo Tze Ying	L/3244/9689/22
192	Yeoh Yuan Shen	L/3288/9814/22
193	Yeoh Zheng Yue	L/3286/9809/22
194	Yong Chin Hong	L/3204/9607/22
195	Zulfadzli bin Hod	L/3266/9752/22

### 5. Deceased

1	Chan Chin Han, Prof Dr	F/0115/4464/03/17
2	Chan Kim Seng	L/0460/0889/77
3	Ibrahim bin Baba, Prof Dr	F/0086/1237/79/09
4	Kirat Singh	M/0157/0049/68
5	Lim Suat Lean	L/1132/2737/96
6	Loke Kwong Hung, Dr	F/0012/0016/67
7	Md Sani Bin Ibrahim, Dr	M/1427/2592/95
8	Rahmat Syuhaili Abd Rashid	L/1339/4284/02
9	Raziyun bin Abdul Razak	M/1846/4191/01
10	Sim Joong Hiong, Dr	M/2576/5246/08
11	Zainal Bin Wakid	L/0858/2053/90

### 6. Members Deregistered for Non-Payment of Annual Retention Fee

1	Aaron Shak Kim Hiung	L/2139/7233/15
2	Ahmad Farhan bin Aziz	L/2688/7962/18
3	Ahmad Rizal bin Ahmad Nor	M/5240/8586/19
4	Ahmad Syazwan bin Mohd Shahar	M/5378/8780/20
5	Alastair Fraser Bishop	M/3853/6568/13
6	Amirah Nabilah binti Azmi	L/2878/8504/19
7	Amiruddin Bin Hassan	M/1527/2749/97
8	Ang Eu Tchen	M/5393/8799/20
9	Anis Hanisah binti Mohd Yatim	L/2592/7700/17
10	Avelia Joseph	L/2969/8777/20
11	Chang Yen Nei	M/4735/7816/17
12	Chew Hooi Boon	M/4407/7313/16

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13	Chi Ming Hang	L/1912/6347/12
14	Chong Kah Chun	L/2737/8109/18
15	Fatin Amirah binti Mohd Yusof	L/2911/8633/20
16	Hang Kooi Beng	L/1346/4313/02
17	Hasimah binti Mohd Mokhtar	M/2050/4465/03
18	Heng Jye	M/1771/4092/00
19	Heng Long Boo	M/1651/3904/98
20	Ho Kim Choon	L/0866/2068/90
21	Ismail Hanuar	M/1426/2597/95
22	Kong Jia En	L/2884/8519/19
23	Lai Choke Kuan	M/1975/4370/02
24	Leong Xin Yu	L/2810/8323/19
25	Lo Win Yee	M/2602/5283/08
26	Loi Thack Chiey	M/3404/5158/07/12
27	Luna Anak Lium	M/4307/7190/15
28	Manprit Kaur a/p Gurcharan Singh	M/4520/7487/16
29	Mohd Bakri bin Ishak	L/1436/4604/04
30	Mohd Fahmi bin Othman	M/2407/5018/06
31	Mohd Noor Bin Awalluddin	L/1117/2696/96
32	Mohd Saad Bin Samsudin	M/1981/4404/03
33	Mohd Safuan bin Che Baharom	M/5563/6448/13/20
34	Mohd Zobir bin Hussein, Prof. Dr.	M/4579/7593/16
35	Monaliza Bte Anwar	M/1998/2780/97/03
36	Muhammad Fahmi bin Abdul Aziz	M/5129/8422/19
37	Muhammad Luqman Hakim bin Abdul Manan	M/4669/7718/17
38	Muhammad Nor bin Omar, Prof.	M/3001/5774/10
39	Muhammad Othman bin Azizan	L/2717/8050/18
40	Musa bin Mohd Shaili	M/4418/7326/16
41	Ngai Tze Khing	L/2862/8465/19
42	Noor Amanina binti Azmi	L/3048/9043/21
43	Noor Hidayah binti Sahar	L/2712/8021/18
44	Norfaezah binti Tajuddin	M/3885/6613/13
45	Norhasmillah binti Abu Hassan	M/4587/7610/17
46	Norhisam bin Ahmad	M/2995/5127/07/10
47	Nurul Asna binti Amer	M/4673/7723/17
48	Nurul Fadzilah binti Shamsuddin	M/4708/7770/17
49	Nurul Shazana binti Mohd Azam	M/4904/8065/18
50	Nurulhayati binti Mohd Azman	M/5452/8888/20
51	Rahmat Bin Haji Mohamed	M/2358/4952/06
52	Robert Libau	L/1108/2625/96
53	Rohaya binti Ahmad, Prof. Dr.	M/4391/7290/16
54	Rozita binti Mohd Ragi	M/4293/7171/15
55	Salmiah binti Hussin	M/3968/6722/14
56	Siti Nadiyah binti Ibrahim	L/2507/7479/16
57	Siti Saidatul Akmar binti Ramli	M/3978/6736/14
58	Siti Sakinah binti Mislan	M/5496/8920/21
59	Tan Chin Hoon	L/1610/5111/07
60	Tan Kah Yee	L/2555/7601/17
61	Tan Sia Kim	M/1925/4321/02
62	Tay Shi Hui	L/2981/8825/20
63	Teo Szea Err	L/2680/7944/18
64	Thang Yin Mee	M/4957/8165/18
65	Wong Wai Fong	L/1859/6123/11
66	Wong Yee Ting, Dr	L/1285/4134/01

### 7. Members Resigned

1	Jamilul Latiff Saidi	M/1323/2187/92/94
2	Kew Yoke Seem	M/1320/2345/93/94

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3 Ong Sau Yuet  
4 Yit Sook Fun

M/1968/4392/03  
M/1950/4214/01/02

### APPENDIX B

2022 IKM LABORATORY EXCELLENCE AWARDS		
NO.	NAME OF LABORATORY	AREAS OF TESTING
1.	ALS Technichem (M) Sdn Bhd No. 19, Jalan Kencana Mas 1/1, Tebrau Business Park, Taman Daya, 81100 Johor Bahru, Johor	Water, Sewage and Industrial Effluents, Solid Waste, Environmental, Sampling, Oil & Food, Microbiology
2.	ALS Technichem (M) Sdn Bhd Wisma ALS, 21, Jalan Astaka U8/84, Bukit Jelutong, 40150 Shah Alam, Selangor	Chemical, GMO & Nucleic Acid, Microbiology, Zoology, Site Testing, COVID-19 Testing
3.	ASEAN Bintulu Fertilizer Sdn Bhd 18th KM Jalan Tanjung Kidurong, P.O. Box No. 482, 97008 Bintulu, Sarawak	Gases, Water, Wastewater, Urea Granules
4.	Asiatest Laboratory Service Sdn Bhd Mezzanine Floor, No. 3, Lot 5, Lorong Kilang F, Off Jalan Kilang Kolombong, 88450 Kota Kinabalu, Sabah	Environmental Monitoring, Water, Sewage and Industrial Effluents, Food Edibles Oil, Microbiology Testing
5.	Bio Synergy Laboratories Sdn Bhd No. 43, Jalan SS22/23, Damansara Jaya, 47400 Petaling Jaya, Selangor	Chemical & Microbiological
6.	Borneo Samudera Sdn Bhd Central Laboratory, Batu 24 Jalan Maktab Perguruan Apas Balung, Locked Bag No. 28, 91009 Tawau, Sabah	Chemical analysis in the field of Palm Oil Mill Effluent (POME), Water, Soil, Foliar, Fertilizer, Crude Palm Oil (CPO)
7.	Chemsain Konsultant Sdn Bhd Lot 7, Lorong Suria, Off Lorong Buah Duku 1, Taman Perindustrian Suria, Jalan Kolombong, 88450 Kota Kinabalu, Sabah	Analysis of Water, Wastewater, Industrial Effluent, Soil, Food, Air, Fertilizer, Petroleum Products (Lube Oil, Crude Oil, Biodiesel, and Natural Gas)
8.	Chemsain Konsultant Sdn Bhd No. 29, Jalan Astaka U8/84A, Taman Perindustrian Bukit Jelutong, Seksyen U8, 40150 Shah Alam, Selangor	Water, Wasterwater, Biodiesel, Crude Oil, Field Testing
9.	Eurofins NM Laboratory Sdn Bhd Lot 263-267, Jalan Nilai 3/21, Kawasan Perindustrial Nilai 3, 71800 Nilai, Negeri Sembilan	Laboratory Analysis
10.	ExcelVite Sdn Bhd Lot 56442, 7.5 Mile, Jalan Ipoh/Chemor, 31200 Chemor, Perak	Chemical & Microbiological
11.	Fedmas Assay Office Sdn Bhd The Penang Gold & Jewellery Exchange Centre, 122-5-1, Jalan Sungai, 10150 Gergetown, Pulau Pinang	Chemical
12.	FGV Agri Services Sdn Bhd, FGV Analytical Laboratory, Jalan Lempoyang, Bandar Sahabat, P.O. Box No. 2, Pos Cenderawasih, 91150 Lahad Datu, Sabah	Soil, Plant, Fertilizer, Effluent, Water
13.	FGV Johor Bulkiers Sdn Bhd FJB Testing Laboratory, Lorong Sawit 1, Kawasan Pelabuhan Johor, 81700 Pasir Gudang, Johor	Palm Oil, Vegetable Oil Product, Oleo-chemicals Product
14.	Forest Research Institute Malaysia (FRIM) Natural Product Quality Control, Natural Product Division, 52109 Kepong, Selangor	Heavy Metal Testing
15.	Forest Research Institute Malaysia (FRIM) Soil Chemistry Laboratory, D8, 52109 Kepong, Selangor	Chemical Analysis of Soil and Plant
16.	Forest Research Institute Malaysia (FRIM) Wood Composite Testing Laboratory, 52109 Kepong, Selangor	Determination of formaldehyde emission from wood based panel product
17.	Forest Research Institute Malaysia (FRIM) Wood Preservative Analytical Laboratory, Biocomposite and Wood Protection Program, Forest Products Division, 52109 Kepong, Selangor	Chemical: Analysis of CCA (copper chromium arsenic) content in treated wood and

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		preservatives & Analysis of Boron content in treated wood and preservatives.
18.	Indah Water Konsortium Sdn Bhd Central Laboratory Servicesm Loji Rawatan Kumbahan Sg. Besi, Lot 33519 Bukit Jalil, 57000 Kuala Lumpur	Chemical Testing in Water and Wastewater
19.	Indah Water Konsortium Sdn Bhd Northern Laboratory Services, Lebuh Cecil Rae, Canning Garden, 31400 Ipoh, Perak	Chemicals & Physical Testing of Sewage Samples
20.	Indah Water Konsortium Sdn Bhd Penang Laboratory Services, Loji Rawatan Kumbahan Juru, Lot SPI507, Lebu Kota Permai 2, 14000 Bukit Mertajam, Pulau Pinang	Sewage Water
21.	Indah Water Konsortium Sdn Bhd Selangor Laboratory Services, Jalan Batu Nilam 13, Bandar Bukit Tinggi, 41200 Klang, Selangor	Environmental Monitoring (Sewage Water)
22.	Indah Water Konsortium Sdn Bhd Southern Laboratory Services, Loji Rawatan Kumbahan Taman Tasik Utama, Jalan TU Utama, Jalan TU 61, 75450 Ayer Keroh, Melaka	Environmental Monitoring - Sewage Water
23.	Jabatan Kimia Malaysia Cawangan Bintulu, Jalan Tun Razak, 97007 Bintulu, Sarawak	Chemical & Microbiological
24.	Jabatan Kimia Malaysia Jalan Sultan, 46661 Petaling Jaya, Selangor	Chemical, Microbiology, Genetically Modified Organism (GMO), Nucleic Acid, Biology
25.	Kualiti Alam Sdn Bhd Ladang Tanah Merah, A3 Division, 71960 Bukit Pelanduk, Negeri Sembilan	Chemical, Solid & Sludge Waste, Liquid Waste, Water & Wastewater, Concrete & Related Products
26.	Lubetech Sdn Bhd No. 8, Jalan Utas 15/7, P.O. Box 7052, 40915 Shah Alam, Selangor	Lubricants and Fluids in both automotive & Industrial factor
27.	Mahamurni Plantations Sdn Bhd UTCL Laboratory, Lot 2135, Batu 23 ½ Jalan Johor Bahru - Kota Tinggi, 81900 Kota Tinggi, Johor	Foliar, Compost, Fertilizer, Soil, Effluent, Water, Palm Oil, Latex
28.	Malaysia LNG Sdn Bhd KM18, Tanjung Kidurong, 97007 Bintulu, Sarawak	Chemical
29.	Malaysian Agricultural Research and Development Institute (MARDI) MARDILab Serdang, Program Perkhidmatan Analisis, Pusat Pengkomersialan Teknologi & Bisnes, 43400 Serdang, Selangor	Agricultural & Food
30.	Malaysian Refining Company Sdn Bhd Analytical Technology and Services Department, Bangunan Pentadbiran Persiaran Penapisan, 76300 Sungai Udang, Melaka	Petroleum & Water Testing
31.	Malaysian Timber Industry Board (MTIB) Fibre and Biocomposite Center (FIDEC), Lot 152, Jalan 4, Kompleks Perabot Olak Lempit, 42700 Banting, Selangor	Chemical Laboratories & Mechanical Laboratories
32.	National Institute of Occupational Safety and Health (NIOSH) Chemical Hazardous to Health Laboratory (CHL), Occupational Safety and Health Evaluation & Control Technology (OSHECT), Lot 1, Jalan 15/1, Seksyen 15, 43650 Bandar Baru Bangi, Selangor	Chemical & Microbiology
33.	National Poison Centre Toxicology Laboratory, Blok J06, 11800 USM, Pulau Pinang	Chemical
34.	Panasonic Industrial Devices Malaysia Sdn Bhd CQD Laboratory, No. 1, Jalan Jemuju 16/13, 40200 Shah Alam, Selangor	Failure Analysis & ROHS Testing
35.	Pengurusan Air Selangor Sdn Bhd Northern Regional Laboratory, Sg. Selangor Phase 2 Water Treatment Plant, Lot 657, KM 3.5 Off Jalan Ijok, 45600 Bestari Jaya, Selangor	Chemical & Microbiology
36.	Pengurusan Air Selangor Sdn Bhd Southern Regional Laboratory, Sg. Labu Water Treatment Plant, Kampung Lembah Paya, Salak Tinggi, 43900 Sepang, Selangor	Chemical & Microbiology
37.	Pengurusan Air Selangor Sdn Bhd	Chemical

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	Southern Regional Laboratory, Sg. Semenyih Water Treatment Plant, Presint 19, 62150 Putrajaya	
38.	Perbadanan Bekalan Air Pulau Pinang (PBAPP) PBA Central Laboratory, Sungai Dua Treatment Plant, Jalan Merbau Kudong, 13800 Sungai Dua, Pulau Pinang	Chemical, Physical, Raw Water, Settled Water, Treated Water, Effluent Water
39.	PETRONAS Chemicals Ammonia Sdn Bhd PC Ammonia Laboratory, KIPC Building, Jalan Kuantan - Kuala Terengganu, 24300 Kerteh, Terengganu	Water and Wastewater, Petrochemicals Product
40.	PETRONAS Chemicals Derivatives Sdn Bhd KM 106 Jalan Kuala Terengganu- Kuantan, 24300 Kerteh, Terengganu	Petrochemicals Products & Wastewater
41.	PETRONAS Chemicals Ethylene Sdn Bhd Central Laboratory, Lot 3834 Kawasan Bukit Tengah, KM105 Jalan Kuantan - Kuala Terengganu, 24300 Kerteh, Terengganu	Water and Waste Water, Ethylene Product, Polyethylene Product
42.	PETRONAS Chemicals Fertiliser Kedah Sdn Bhd PCFKSB Laboratory, KM3 Jalan Jeniang, 08300 Gurun, Kedah	Chemical, Urea, Methanol, Water & Waste Water
43.	PETRONAS Chemicals Methanol Sdn Bhd Rancha-rancha Industrial Estate, 87010 Labuan	Methanol, Water, Gas, Environment
44.	PETRONAS Chemicals MTBE (M) Sdn Bhd PC MTBE Laboratory, Lot 111, Gebeng Industrial Estate, 26080 Kuantan, Pahang	Physical & Chemical Analysis
45.	PETRONAS Gas Berhad Analytical Technology Export Terminal, Export Terminal Tanjung Sulong, 24000 Kemaman, Terengganu	Hydrocarbon
46.	PETRONAS Gas Berhad Analytical Technology Kertih, KM 105 Jalan Kuantan - Kuala Terengganu, 24300 Kertih, Terengganu	Water & Hydrocarbon
47.	PETRONAS Gas Berhad Analytical Technology Kertih, Utilities Kertih Kertih Integrated Plant Complex, KM105 Jalan Kuantan - Kuala Terengganu, Kertih, 24300 Kemaman, Terengganu	Water
48.	PETRONAS Gas Berhad Analytical Technology Santong, Gas Processing and Utilities, KM 8, Kg. Tok Arun, Off Jalan Santong, 23100 Paka, Dungun, Terengganu	Gas Composition, Gas Contaminants, Water, Waste Water Analysis
49.	PETRONAS Gas Berhad Analytical Technology Utilities Gebeng, Utilities Gebeng (UG), Lot 139A, Gebeng Industrial Area, Phase III, 26080 Kuantan, Pahang	Water
50.	PETRONAS Penapisan (Terengganu) Sdn Bhd Analytical Technology Services, 24300 Kertih, Kemaman, Terengganu	Petroleum, Petroleum Products, Aromatic- Benzene and P-Xylene, Gas, Utility, Water, Wastewater
51.	PETRONAS Research Sdn Bhd Lot 3288 & 3289 , Off Jalan Ayer Itam, Kawasan Institusi Bangi, 43000 Kajang , Selangor	Chemical
52.	Petrotechnical Inspection (M) Sdn Bhd Wisma SGS, Lot 603 Lebuhraja Lumu, Kawasan Perindustrian PKNS, 42000 Port Klang, Selangor	Chemical
53.	Prisma Laboratory (M) Sdn Bhd 36-01 & 38-01, Jalan Kempas Indah 1/1, Taman Kempas Indah, 81300 Johor Bahru, Johor	Chemical & Microbiological
54.	Prisma Laboratory (M) Sdn Bhd No. 26-02 & No. 28-1, Jalan Sungai Burung AA 32/AA, Bukit Rimau, 40460 Shah Alam, Selangor	Chemical
55.	PRPC Utilities and Facilities Sdn Bhd PRPC UF Centralised Laboratory Services, Lot 16A, Laboratory building 8310-LBB-801 Rapid Site, Project, Pengerang Integrated Complex, 81600 Pengerang, Johor	Petroleum, Petrochemical, Utilities
56.	Ranhill SAJ Sdn Bhd Central Laboratory, Lot 4704, Kawasan Perindustrian Sri Gading, Batu 6, Jalan Kluang, 83300 Batu Pahat, Johor	Chemical & Microbiology

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57.	SaniChem Resources Sdn Bhd No. 7 & 7A, Jalan Timur 6/1A, Mercato @ Enstek, 71760 Bandar Enstek, Negeri Sembilan	Chemistry, Environmental, Microbiology
58.	SGS (Malaysia) Sdn Bhd Lot 7691 - 7693, Jalan Pending, 93450 Kuching, Sarawak	Chemical
59.	SGS (Malaysia) Sdn Bhd Wisma SGS, Lot 603 Lebu Raja Lumu, Kawasan Perindustrian PKNS, 42000 Port Klang, Selangor	Chemical
60.	SGS (Malaysia) Sdn Bhd SGS Sakura Onsite Laboratory, Lot 107, Block 1, Kemena Land District, Samalaju Industrial Park, 97300 Bintulu, Sarawak	Chemical
61.	SGS (Malaysia) Sdn Bhd Lot 3 & 4, Persiaran Jubli Perak Seksyen 22, 40300 Shah Alam, Selangor	Chemical, Microbiology, Physical, Nucleic Acid
62.	Shell MDS (M) Sdn Bhd P.O. Box 1084, Jalan Tanjong Kidurong, 97000 Bintulu, Sarawak	Chemical, Physical, Process Gases, Petroleum, Petroleum Product, Waxy Raffinate, Waxes, Effluent Water, Ground Water, Process Gases
63.	Sime Darby Plantation Research Sdn Bhd LS Laboratories Carey Island, Lot 2664, Jalan Pulau Carey, 42960 Pulau Carey, Selangor	Plant & Compost, Water & Wastewater, Palm Products, Food Safety, Soil & Fertilizer, Rubber & Latex
64.	Sime Darby Plantation Research Sdn Bhd LS Laboratories Sabah, R&D Centre Sabah, P.O. Box 135, 91007 Tawau, Sabah	Soil, Plant, Fertilizer, Effluent, Palm Oil & Palm Kernel
65.	Sime Darby Plantation Research Sdn Bhd LS Laboratories Sarawak, KM52, Jalan Bintulu-Miri, P.O. Box 673, 97008 Bintulu, Sarawak	Chemical
66.	Trienekens (Sarawak) Sdn Bhd Lot 1235, Block 4, Sentah-Segu Land District, Mile 15, Kuching-Serian Road, Jalan Mambong, 93250 Kuching, Sarawak	Chemical
67.	UNIPEQ Sdn Bhd Universiti Kebangsaan Malaysia, Block A, UKM-MTDC Technology Centre, 43600 Bangi, Selangor	Chemical, Microbiology, Nucleic Acid
68.	Universiti Teknologi Petronas Environmental Laboratory, Block 14-02-05, Laboratory Management Department, 32610 Bandar Seri Iskandar, Perak	Chemical