

Souvenir Programme Book



IUPAC2025

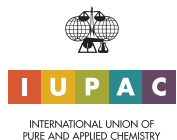


Kuala Lumpur Convention Centre, Malaysia

53rd IUPAC General Assembly (53GA)
12th - 16th July 2025

50th World Chemistry Congress (50WCC)
14th - 19th July 2025

Organised by:



Meet in 
Malaysia
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Incorporating  **LabAsia2025**

Chemistry for Sustainable Future

iupac2025.org





GREEN CHEMISTRY FOR LIFE



Dear friends,

Already more than ten years ago, we launched the Green Chemistry for Life program. We endeavored to get young researchers to focus their efforts on developing new technologies to effectively respond to the global challenges facing humanity, while at the same time preserving Earth's unique natural environment in all its diversity, as well as the necessary resources for future generations.

To that end, we joined forces with UNESCO and the International Union of Pure and Applied Chemistry and launched a research grant program to support talented young scientists working on energy-efficient and environmentally sound technologies. Over the years that the Green Chemistry for Life program has been running, an international scientific jury has reviewed more than 1000 applications and awarded grants to 55 young scientists from 33 countries.

I'm confident that the technologies proposed by our contestants will become a real breakthrough. They will make humanity stronger and change the world for the better.

PJSC PhosAgro CEO
M.K. Rybnikov

PhosAgro, a leader in the Russian chemical industry, launched an initiative involving creation of a fund to provide financial and scientific support to promising researchers in the field of chemistry who are focused on environmental protection, healthcare, food programs, energy efficiency, and rational use of natural resources.

In 2013, a partnership agreement was signed between UNESCO, the International Union of Pure and Applied Chemistry (IUPAC), and PhosAgro to establish a grant program for researchers working in the so-called green chemistry. This area of scientific endeavor aims to develop production technologies and materials that are safe for both nature and people. The project helps talented young people not only with funding to continue their research and implement projects, but also facilitating communication with senior colleagues, including prominent figures in modern-day chemistry, and organizing information exchange within the research community. This is the first project in the history of UNESCO and the United Nations to be implemented with funding from Russian business. PhosAgro has allocated over \$2.5 million to its development and implementation.

Today, Green Chemistry for Life is the most important link in supporting scientific research by business. The authority that the program has earned in the scientific world is confirmed by the annual growing number of applications for participation in the grant program.

PhosAgro is pleased to invite young scientists involved in the development of innovative and environmentally friendly technologies based on the principles of green chemistry to take part in the 9th round of the grant program, which will start early next year. You can find all the information about the project on the UNESCO website – <https://www.unesco.org/en/basic-sciences-engineering/green-chemistry>



WELCOME MESSAGE FROM PRESIDENT OF INSTITUT KIMIA MALAYSIA (IKM)



Distinguished delegates, esteemed colleagues, and honoured guests,

On behalf of Institut Kimia Malaysia (IKM), it is my great pleasure and honour to welcome all of you to IUPAC 2025. We are proud to host this landmark gathering of the international chemistry community here in Malaysia, a vibrant hub of scientific activities and exchanges, technology and innovation, and cultural diversity and inclusiveness.

As chemists, we stand at the intersection of science and society, where our work has the power to transform lives and address the most pressing global challenges. Whether in developing sustainable energy and materials, advancing green chemistry, innovating in pharmaceutical and agricultural sciences, or ensuring safety in chemical practice, chemistry is central to building a more sustainable and better world for all of us.

IUPAC has long provided the language, standards, and collaborative frameworks that unify our global chemistry community. This Congress continues that mission of bringing together brilliant minds to share new knowledge and breakthroughs, inspire new directions, and reaffirm our shared responsibility as stewards of chemical knowledge and innovation.

Institut Kimia Malaysia, as the national professional body for chemists, is proud to partner with IUPAC in promoting excellence, professionalism, integrity, and inclusivity in the chemical sciences. We remain committed to nurturing future chemists, strengthening professional practice, and contributing meaningfully to the advancement of science for societal benefits.

Let IUPAC 2025 be a celebration of chemistry's potential to build a better, more inclusive and peaceful world. IUPAC 2025 also works as a catalyst for future collaborations and partnership. Together, may we ignite ideas that will shape not just the science of tomorrow, but the future of humanity.

Thank you, and welcome to IUPAC 2025. Welcome to Malaysia.

Datuk ChM Dr Soon Ting Kueh
President, Institut Kimia Malaysia





IUPAC2025

Kuala Lumpur Convention Centre, Malaysia
Chemistry for Sustainable Future



The World Chemistry Leadership Meeting (WCLM)

TRUST IN SCIENCE AND THE RIGHT TO SCIENCE

15 July 2025 | 08:00 - 11:00 | Conference Hall 3,
Level 3, Kuala Lumpur Convention Centre, Malaysia
The 50th World Chemistry Congress (50WCC)

08:00	Introductory remarks: Ehud Keinan, IUPAC President
08:15	Dorothy J. Phillips , 2025 ACS President Will Communicating the "Right to Science" Promote Trust in Science?
08:30	Helen Pain , Chief Executive, Royal Society of Chemistry Chemistry's role in building a fairer, safer, and more sustainable world.
08:45	Omar M. Yaghi , University of California, Berkeley The Future of Science in the Digital Age.
09:00	Elizabeth A. H. Hall , University of Cambridge, UK The science, the interpretation or the integrity: where are we failing?
09:15	Paul T. Anastas , Yale University Science, Worthy of Preserving, Protecting, and Defending.
09:30	Peter Mahaffy , King's University Edmonton, Canada, Building Trust in Science.
09:45	David Winkler , La Trobe University Monash University, University of Nottingham The "Hydra's head" of attacks on science.
10:00	Open discussion
10:50	Concluding remarks

Speakers:



Ehud Keinan



Dorothy J. Phillips



Helen Pain



Omar M. Yaghi



Elizabeth
A. H. Hall



Paul T. Anastas

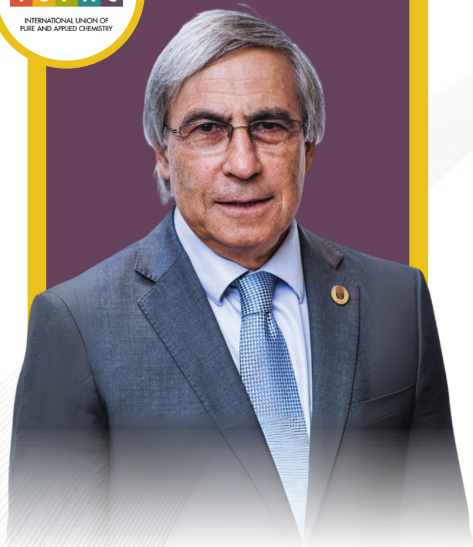
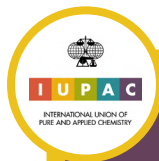


Peter Mahaffy



David Winkler

MESSAGE FROM THE PRESIDENT OF INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY (IUPAC)



Dear fellow chemists,

Welcome to the 50th World Chemistry Congress (50WCC) in enchanting Malaysia! I am sure you are as excited as I am, celebrating the creative, innovative, and essential global chemistry.

For more than 106 years, IUPAC has been a highly influential organisation that has served the world of science by creating the language of chemistry, establishing chemistry standards, and providing valuable recommendations for every field of chemistry.

Human knowledge grows exponentially, doubling every 1.5 years, and chemistry is no exception. Accordingly, and yet incomprehensibly, on average, chemists now know more than twice what they knew in 2023 when celebrating the 49th World Chemistry Congress in The Hague. This situation has far-reaching consequences for our future.

Humanity faces six global challenges, including atmospheric changes, sustainable energy, dwindling raw materials, water scarcity and safety concerns, food security, and public health issues. As history continues to teach us, science is unpredictable. Therefore, these global challenges will likely be met by new technologies that will emerge by chance, luck, and serendipity.

Most strikingly, the common denominator of all six challenges is chemistry! Simply because they involve matter, and all matter is made of interacting atoms and molecules. The central role of chemistry among all sciences places enormous responsibility on the shoulders of all chemists but also offers unique opportunities.

The presidents of national chemical societies worldwide (the Presidents' Forum) and leaders of IUPAC have unanimously agreed that basic research, driven by hypotheses and curiosity, is essential for addressing global challenges. Furthermore, we all recognize that a collaborative environment across all countries and scientific disciplines is critical for innovative research. Accordingly, we urge governments worldwide to support the most creative and disruptive science, which is a highly profitable investment in all countries.

I congratulate the Congress organisers and the Institut Kimia Malaysia for a most successful celebration of global chemistry.

Enjoy the spectacular science and the happy networking!

Professor Ehud Keinan

President, International Union of Pure and Applied Chemistry

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Thank You to Our Collaborators



United Nations Educational,
Scientific and Cultural Organisation
(UNESCO)



Organisation For The
Prohibition Of Chemical
Weapons (OPCW)



Chemical Industries
Council Of Malaysia
(CICM)



International Younger
Chemists Network
(IYCN)



Centre For Water
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(ALIR)



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Cardiovascular Advancement
and Research Excellence Institute



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Institut Penyelidikan
Perubatan



Institut Penyelidikan
Perhutanan Malaysia



INSTITUT KIMIA MALAYSIA

<http://www.ikm.org.my/>

OUR BACKGROUND

Institut Kimia Malaysia (IKM), or the Malaysian Institute of Chemistry, is a statutory professional organisation incorporated under the Chemists Act 1975 on 1st November 1977 and is under the jurisdiction of the Ministry of Science, Technology & Innovation (MOSTI).

The Institute was earlier inaugurated on 8th April 1967 with 31 founding members and subsequently registered under the Societies Act 1966 on 13th October 1967. IKM has grown in tandem with the rapid development of Malaysia to become a well-established and strong professional organisation recognized both locally and internationally. Membership of IKM comes from both the manufacturing and service sectors, universities and other institutions of higher learning, research and development institutions, and government and education sectors. With membership of **6,550 in June 2025**, IKM enjoys a prominent place among the professional scientific organisation in Malaysia. The Institute is also playing a leading role in the development of chemistry in Malaysia.

VISION OF THE INSTITUTE

“A Globally Recognised Institution for Advancing Chemistry and Professionalism in Chemistry”

IKM, being the professional body for regulating and advancing chemistry and the profession of chemistry in Malaysia shall uphold and improve the professionalism of its members. The Institute aims to play a bigger and more prominent role nationally and internationally in advancing chemistry. Therefore, it will further widen and broaden its networking and cooperation with other professional institutions locally and globally.

MISSION OF THE INSTITUTE

“The institute shall regulate and promote the professionalism in chemistry towards sustainable socio-economic development of the nation”

IKM shall promote public awareness, appreciation and advancement of chemistry towards sustainable socio-economic development of Malaysia, including conserving our natural environment and resources for the future generations. IKM shall provide continuous professional development for its stakeholders through education, training, research and publications, whilst regulating the practice of chemistry in Malaysia.

IKM will engage its stakeholders; government, industry and academia, and networking with national and international organisations towards becoming a globally recognised institution.



INSTITUT KIMIA MALAYSIA

<http://www.ikm.org.my/>

FUNCTIONS OF THE INSTITUTE

- To determine the qualifications of persons for admission as members.
- To provide for the training, education and examination by the Institute of persons intending to be members and to provide for the training and continuous professional development of members practising or intending to practise the profession of chemistry in Malaysia.
- To regulate the practice, by members, of the profession of chemistry in Malaysia.
- To promote the importance of the profession of chemistry and also to increase public awareness and appreciation with regard to the field of chemistry.
- To render such pecuniary or other assistance to members or their dependants as it thinks fit with a view to protecting or promoting their welfare.
- To provide information and advice to members and the public on matters relating to chemistry.
- To collaborate with other government agencies, national and international professional bodies, national and international scientific organisations and higher educational institutions on matters relating to chemistry.
- To provide professional input, advice and consultation on national and global issues affecting the public by working closely with academia, other professional bodies and the industry.
- To approve or refuse the granting of accreditation of chemistry and chemistry-related programs in public higher educational institutions and private higher educational institutions in Malaysia in accordance with the Malaysian Qualification Agency Act 2007 [Act 679].
- To advise the Minister on matters relating to chemistry and chemistry profession.
- To promote advances in the field of chemistry and chemistry-related sciences and their applications.

ACTIVITIES OF THE INSTITUTE

The Institute carries out the whole range of professional, educational, social and promotional activities, including the following:

- Membership Examinations
- Chemistry Conferences
- Professional Courses and Continuing Education Programmes
- Chemistry Publications (Malaysian Journal of Chemistry (MJChem) and Berita IKM)
- Technical and Professional Visits, and Study Tour
- Activities on Promoting Public Understanding and Appreciation of Chemistry including the Chemistry and Technology Information Series (CATIS) and Malaysia Chemistry Festival (Karnival Kimia Malaysia, K2M)
- Malaysian National Chemistry Quiz (Kuiz Kimia Kebangsaan Malaysia, K3M)
- Social Functions including the annual Malam Kimia

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future where...

chem**is**try
more open
more green
more equal

Discover how the Royal Society of
Chemistry is supporting the global
chemical science community.

Visit our team at
stand B172 in LabAsia
or find us online



CONGRESS INFORMATION

Official Congress Venue

Kuala Lumpur Convention Centre
Jalan Pinang, Kuala Lumpur City Centre,
50088 Kuala Lumpur, Wilayah Persekutuan, Malaysia

For more info, visit website: <https://iupac2025.org/>



Parking Rates Monday - Sunday (Including Service Tax)	
15 minutes	Free
First Hour or part thereof	RM 5.00 / Hour
Second Hour or part thereof	RM 4.00 / Hour

Special Rates	
Monday - Friday (After 1700hrs to 0500hrs)	
Maximum Rates	RM 13.00
Monday - Friday (Entry after 0500hrs to 0900hrs, exit after 1600hrs to 1200hrs)	
Early Bird Rates	RM 18.00
Saturday, Sunday & Public Holiday	
Maximum Rates	RM 17.00

In the event that the Kuala Lumpur Convention Centre parking lots are full, here are other parking lot options that are available:

- Behind Exxon Mobil Tower: Open-air car park (Option Lot)
- In front of Mandarin Oriental Hotel: Open car park (Lot D1)

Do note that their parking rate is different from the Kuala Lumpur Convention Centre parking rates.

The parking rates are accurate to the best of our knowledge as of today. Please be advised that the parking operator reserves the right to modify these rates.

Surau / Muslim Prayer Rooms (with ablution facilities) in Kuala Lumpur Convention Centre

- Level 3 Centre Core (By Club Suite)
- Level 3 West Wing (By MR 307)
- Concourse Level (for public use) (behind Fuel Shack)

Registration / Help Desk, Speaker Ready Room & Poster Counter Operation Hours

- **53rd General Assembly (53GA)**
12th - 16th July 2025: 0700 - 1800hrs
- **50th World Chemistry Congress (50WCC)**
12th - 18th July 2025: 0700 - 1800hrs
19th July 2025: 0800 - 1300hrs
- **Poster Counter (Next to Banquet Hall)**
15th - 18th July 2025: 0700 - 1800hrs
- **Help Desk:** Centre Core, Level 3
- **Speaker Ready Room (Meeting Room 308 - 309):**
14th - 18th July 2025: 0700 - 1800hrs

Certificate of Participation, Invoice and Receipt

Certificate of Participation, Invoice and Receipt will be available on your delegate dashboard after the congress ends. It will be available for all delegates to download for 1 month in the congress website <https://iupac2025.org/>

Do download the necessary documents before 19th August 2025.

For more info, please contact the Congress Secretariat at:



Conference Partners Sdn Bhd
E-mail: secretariat@iupac2025.org
Phone: +60 14-936 6018

COMMITTEES

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*International Union of Pure
& Applied Chemistry*



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Promotion & Marketing

Deputy Organising Chair and
Promotion & Marketing

Vice Chair – 53rd IUPAC General
Assembly

Vice Chair – 50WCC – Pure &
Applied Chemistry

Vice Chair – 50WCC – Chemistry &
SDGs

Vice Chair – 50WCC – Thematic
Sessions

Vice Chair – Finance & Logistics

Vice Chair – Communications,
Social Media & IYCN

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Conference Partners Sdn Bhd

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Institut Kimia Malaysia / Universiti Malaya

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University of Kent and Vital Signs Solutions Ltd.
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ChM Dr Yang Farina Abdul Aziz
Institut Kimia Malaysia

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of Management and Technology*

Asst. Prof ChM Dr Yvonne Choo Shuen Lann
Institut Kimia Malaysia / Xiamen University Malaysia

Datin ChM Dr Zuriati Zakaria
Institut Kimia Malaysia

OPENING Ceremony



Monday | 14th July 2025

Conference Hall 1 – 3, Kuala Lumpur Convention Centre

PROGRAMME

1500 – 1503 Welcome by Emcee
ChM Dr Yang Farina Abdul Aziz

Malaysia's National Anthem – Negaraku

1503 – 1508 Welcome Speech by
Prof Ehud Keinan
President, International Union of Pure and Applied Chemistry (IUPAC)

1508 – 1518 Opening Speech by
Datuk ChM Dr Soon Ting Kueh
President, Institut Kimia Malaysia and
Organising Chairperson, IUPAC 2025

Officiating Ceremony

1518 – 1548 **IUPAC Prize Presentations**

- **2025 IUPAC Distinguished Women in Chemistry or Chemical Engineering**
- **2024 and 2025 IUPAC – Solvay International Award for Young Chemists**
- **IUPAC 2025 Zhejiang NHU International Award for Advancements in Green Chemistry**

Sponsors' & Strategic Partner Messages

1548 – 1554 • **Dr Siroj Loikov**, First Deputy Chief Executive Officer, PhosAgro
1554 – 1557 • **Dr Helen Pain**, Chief Executive Officer, Royal Society of Chemistry (RSC)
1557 – 1600 • **Mr Gerard Leeuwenburgh**, Country General Manager, Informa Markets Malaysia

1600 – 1602 **Video presentation of Malaysia Convention & Exhibition Bureau (MyCEB)**

1602 **End of the Opening Ceremony**



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IUPAC2025

CONGRESS GALA DINNER

16th July 2025 | 1900 hrs - 2200 hrs

Grand Ballroom, Basement II, Shangri-La Hotel Kuala Lumpur

CONGRESS GALA DINNER PROGRAMME

- 1830 — Arrival of Guests**
- 1900 — Entrance of VVIP**
Accompanied by Kwong Ngai Lion Dance Troupe
Welcome by Emcee
- 1920 — Welcome Address**
Datuk ChM Dr Soon Ting Kueh
President, Institut Kimia Malaysia and
Organising Chairperson, IUPAC 2025
- 1930 — IUPAC-Soong Prize for Sustainable Chemistry Award Presentation**
- 1945 — Dinner Commences**
- 2000 — Entertainment**
1 Malaysia Cultural Dance by IMG Events
NACSCOM Golden Voice Choir
Duet by Wong Choon Har & Quah Mei Lan
Face Change by Empire Culture
- 2200 — End of Programme**
- Dress Code:**
Traditional / Smart Casual

Contact IUPAC 2025 Gala Dinner Secretariat:
Zhee Xuan +6016 754 3018 / speaker.vip@iupac2025.org

*By Invitation /
By Subscription Only*



**Prof Chi-Huey Wong***Scripps Research Institute, United States*

Prof Wong is currently the Scripps Family Chair Professor of Chemistry. He received his B.S. and M.S. degrees from National Taiwan University, Ph.D. in Chemistry from MIT and postdoctoral training at Harvard University. His research interest is to develop new methods for making and studying complex carbohydrates and glycoproteins. He received the US Presidential Green Chemistry Challenge Award, ACS AC Cope Medal, Wolf Prize in Chemistry, Robert A. Welch Award and Tetrahedron Prize in Chemistry. He is a member of the American Academy of Arts and Sciences and the US National Academy of Sciences.

Prof Christine K Luscombe*Okinawa Institute of Science and Technology, Japan*

Christine Luscombe is a Professor the Okinawa Institute of Science and Technology in Japan. She earned her Bachelor's from the University of Cambridge in 2000 and completed her PhD on surface modifications using supercritical CO₂. Her postdoctoral work at UC Berkeley focused on semiconducting polymers for organic photovoltaics. After joining the University of Washington in 2006, she received awards such as the NSF CAREER Award and Sloan Fellowship. She has published over 140 publications and studies semiconducting polymers and microplastics in marine organisms. She is currently the Editor-in-Chief for Polymer Chemistry, and holds leadership roles in MRS, IUPAC, and SPSJ.

**Prof David Alan Winkler***La Trobe University, Australia*

David Winkler has an unusually broad formal training in chemistry, physics, chemical engineering, and radioastronomy. He is a Professor of Biochemistry & Chemistry at La Trobe Institute for Molecular Science at La Trobe University, an adjunct Professor of Medicinal Chemistry at the Monash Institute for Pharmaceutical Sciences, and a visiting Professor in Pharmacy at the University of Nottingham. He previously spent over 30 years at CSIRO applying computational chemistry, AI, and machine learning methods to the design of drugs, agrochemicals, nanomaterials, and biomaterials. He is ranked 136th out of 100,000 medicinal chemists (Stanford 2023). He has authored over 250 refereed journal articles and book chapters (6 that are ISI Highly Cited), has an H index of

62 (GS), and is an inventor on 25 filed patents. He has provided key IP for three biotech startup companies. His awards include the CSIRO Medal for Business Excellence, RACI's Adrien Albert award for medicinal chemistry and a Distinguished Fellowship, the ACS Herman Skolnik award for excellence in cheminformatics, a Royal Academy of Engineering (UK) Distinguished Fellowship (bioengineering) and the AMMA Medal (molecular design). He is past President of the Federation of Asian Chemical Societies (FACS) and the Asian Federation for Medicinal Chemistry (AFMC), and past Chairman and Director of the RACI Board.





Prof Eiichi Nakamura
University of Tokyo, Japan

Professor Eiichi Nakamura is an organic chemist, holding the Molecular Technology Innovation Endowed Chair at The University of Tokyo. He has pioneered the use of atomic-resolution transmission electron microscopy to study molecular motion at the single-molecule level. He has received numerous honors, including the Medal with Purple Ribbon and the Order of the Sacred Treasure.

Prof Gregory Scholes
Princeton University, United States

Greg Scholes is the William S. Tod Professor of Chemistry at Princeton University. Originally from Melbourne, Australia, he later undertook postdoctoral training at Imperial College London and University of California Berkeley. He started his independent career at the University of Toronto (2000-2014) where he was the D.J. LeRoy Distinguished Professor. He was appointed Editor-in-Chief of the Journal of Physical Chemistry Letters in 2019. Dr. Scholes was elected a Fellow of the Royal Society (London) in 2019 and a Fellow of the Royal Society of Canada in 2009. He served as Chair of Department at Princeton 2020-2023 and Director of an Energy Frontier Research Center (BioLEC) since 2018.



Prof Jackie Yi-Ru Ying
King Faisal Specialist Hospital & Research Centre, Saudi Arabia

Prof Ying was Professor of Chemical Engineering at MIT (1992-2005), and Founding Executive Director of the Institute of Bioengineering and Nanotechnology and NanoBio Lab, Singapore (2003-2023). She is Chairman of the Bioengineering and Nanomedicine Department of King Faisal Specialist Hospital & Research Centre, Saudi Arabia. She has authored over 400 articles with >51,750 citations (h index: 107), and >200 primary patents. She has won numerous awards on nanomaterials research, including Mustafa Prize-Top Scientific Achievement Award and King Faisal Prize in Science. She has been elected to German National Academy of Sciences, Leopoldina, U.S. National Academy of Inventors and U.S. National Academy of Engineering.



Prof Lisa Hall

University of Cambridge, United Kingdom



Professor Lisa Hall leads Cambridge Analytical Biotechnology (CAB) at the University of Cambridge, focusing on mechanisms enabling biology to interface with bioelectronics in in vitro diagnostics. CAB has a special interest in improving access to diagnostics in low and middle income countries (LMICs). Lisa was the recipient of a CBE in the Queen's Birthday Honours List (2015), for services to Higher Education and to Sport for the Disabled. In December 2022 she was announced as winner of the 2022 MRC Millennium Medal. Lisa also won the Gold Medal from the Royal Society of Chemistry (Analytical Division) in 2005 and served as Vice President of the Analytical Division of Royal Society of Chemistry (2006–08). She received the Alec Hough-Grassby Memorial Award from the Institute of Measurement and Control in 2009 and in 2020, the Oxburgh Medal for outstanding contribution to measurement, instrumentation and control in the field of environmental science and engineering.

Prof Peter Mahaffy

King's University, Canada

Peter Mahaffy is a 3M National Teaching Fellow, Professor of Chemistry at the King's University in Edmonton, Canada, and director of the King's Centre for Visualization in Science (www.kcvvs.ca), which provides digital learning resources used by a half-million students, educators, and the public from over 100 countries each year. His current research and professional work is at the interfaces of chemistry education, systems thinking and sustainability, the uses of interactive visualization tools to facilitate the learning of science, and the responsible uses of chemistry. Mahaffy served for six years as chair of the International Union of Pure & Applied Chemistry's (IUPAC) Committee on Chemistry Education (CCE) and member of the IUPAC Bureau. He was a charter member of the International Council of Science (ICSU) Committee on Freedom and Responsibility in the Conduct of Science



and served on the working group on education and outreach for the Organisation for the Prohibition of Chemical Weapons (OPCW), which won the Nobel Peace Prize in 2013. He is presently co-chair of an IUPAC project on systems thinking and sustainability in chemistry and a titular member of the IUPAC Committee on Ethics, Diversity, Equity and Inclusion. His work has been recognized with national and international awards from the Chemical Institute of Canada, College Chemistry Canada, the American Chemical Society, and IUPAC. In March 2025 he will receive the ACS George C. Pimental Award for outstanding contributions to chemistry education.

**Prof Tamotsu Takahashi***Hokkaido University, Japan*

Prof Tamotsu Takahashi obtained Ph.D. degree from the University of Tokyo graduate school in 1983. And then he became Assistant Professor at engineering department of the University of Tokyo. He was promoted to Associate Professor at Institute for Molecular Science in Okazaki in 1991. He moved Hokkaido University in 1995 as full Professor. He retired in 2020 and now emeritus Professor of Hokkaido University. In 2024, he became President of Foundation for Interaction in Science & Technology, Japan.

**Prof Veronique Gouverneur***University of Oxford, United Kingdom*

Prof Véronique Gouverneur secured a PhD in chemistry at the Université Catholique de Louvain (LLN, Belgium) under the supervision of Professor Léon Ghosez. In 1992, she moved to a postdoctoral position with Professor Richard Lerner at the Scripps Research Institute (California, USA). She then took a position of Maître de Conférence at the University Louis Pasteur in Strasbourg (France); during this period, she worked with Dr Charles Mioskowski and was Associate Member of the “Institut de Science et d’Ingénierie Supramoléculaires” led by Professor Jean-Marie Lehn. She started her independent research career at the University of Oxford in 1998 in the Department of Chemistry and was promoted to Professor of Chemistry in 2008. She also held a tutorial fellowship at Merton College Oxford until 2022. Since 2022, she became the Waynflete Professor of Chemistry at Magdalen College. Her research aims at developing new approaches to address long-standing problems in the sustainable synthesis of fluorinated molecules including pharmaceutical drugs, probes for imaging (Positron Emission Tomography) and components for material sciences. She has authored > 230 peer-reviewed publications and patents. Her research was rewarded by numerous prizes and distinctions, including the ACS Award for Creative work in Fluorine Chemistry 2015, RSC Tilden Prize 2016, RSC Organic Stereochemistry Award 2019, Prelog Medal 2019, Henri Moissan Prize in 2021, Arthur C. Cope Award 2022, EuChemS Female Organic Chemist of the Year Award (EuChemS) 2022, Prous Institute - Overton and Meyer Award for New Technologies in Drug Discovery 2024, and the Royal Society Davy Medal 2024. Véronique was elected Member of the European Academy of Sciences (EURASC) in 2017, Fellow of the Royal Society in 2019 and International Honorary Member of the American Academy of Arts and Sciences in 2022.

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Prof Zhang Tao

Chinese Academy of Sciences, China

Prof Zhang received his PhD in 1989 from Dalian Institute of Chemical Physics (DICP), Chinese Academy of Sciences (CAS). After one year in University of Birmingham as a post-doctoral fellow, he joined DICP again where he was promoted to a full professor in 1995. He has been the director-general of DICP for 10 years (2007-2016). He was also the vice president of CAS (2016-2023).

His research interests are mainly focused on Single-Atom Catalysis and Catalytic Conversion of Biomass. He discovered a new process from cellulose to ethylene glycol in 2008 and has accomplished a pilot demonstration (1000 ton/year) in 2023. Particularly, In 2011 he coined the new concept "Single-Atom Catalysis" (Nature Chemistry, 2011, 3, 634), which is now one of the hot research frontiers in catalysis. He has won many important awards, such as Future Science Prize (2024), Tang Aoping Award (2024) of Chinese Chemical Society (CCS), Advance of Catalysis Award of the Asian-Pacific Association of Catalysis Societies (2023), Distinguished Award of CCS-Sinopec (2022), ChinaNano Award (2018), and National Invention Prize (2008). Prof Tao Zhang is the author or co-author of more than 600 peer-reviewed publications and 110 patents (H-index 120 and more than 70000 citations). He serves as the Editor-in-Chief of Chinese Journal of Catalysis, Associate Editor of JACS, Co-Chair of the Editorial Advisory Board of Chemistry – A European Journal, Editorial Board Members of Applied Catalysis B, Green Chemistry, ACS Sustainable Chemistry & Engineering, ChemPhysChem and Industrial & Engineering Chemistry Research. He was elected as academician of Chinese Academy of Sciences in 2013, fellow of TWAS in 2018, and international fellow of Canadian Engineering Academy in 2020.

Prof Zhaomin Hou

RIKEN Center for Sustainable Resource Science, Japan

Prof Zhaomin Hou is the Chief Scientist and Director of Organometallic Chemistry Laboratory at the RIKEN Cluster for Pioneering Research and the Group Director of Advanced Catalysis Research Group and Center Deputy Director of the RIKEN Center for Sustainable Resource Science.

He also serves as an Executive Editor of Journal of the American Chemical Society. His research interests cover broad areas of organometallic chemistry and catalysis, including the synthesis of new organometallic complexes having novel structures, the development of more efficient, selective catalysts for olefin polymerization and organic synthesis, and the activation and efficient utilization of small molecules. Current research projects in his group include (1) synthesis of self-healing polymers by sequence-controlled copolymerization of polar and non-polar olefins. (2) C-H activation and functionalization, (3) N₂ activation and functionalization, (4) using CO₂ as a building block for organic synthesis. He is a recipient of the Japan Academy Prize (2022), the Chemical Society of Japan Award (2019), the Chinese Chemical Society Yaozeng Huang Award in Organometallic Chemistry (2014), the Award of the Society of Polymer Science, Japan (2012), the Rare-Earth Society of Japan Award (2009), the Commendation for Science and Technology by the Minister of Education, Culture, Sports, Science and Technology, Japan (2008), the JSPS Prize (2007), and the Mitsui Chemicals Catalysis Science Award (2007).





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POSTER PRESENTATION HIGHLIGHT

DRIVING CHEMISTRY FOR SUSTAINABLE CHANGE

- **CLUSTER II – SDG 13: CLIMATE ACTION**
- JOIN DR. MANDAR BODAS AS HE SHARES HOW ELSEVIER'S RESEARCH TOOLS SUPPORT CLIMATE ACTION AND SUSTAINABILITY IN THE FIELD OF CHEMISTRY.

MESSAGE FROM THE TOP SPONSORS



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The Royal Society of Chemistry work at heart of the chemical sciences community to create a future that's more open, more green, and more equal. As an independent catalyst for change, we connect people and ideas through global partnerships, conferences, and networks. We publish scientists' discoveries to improve health, the environment and lifestyles, making sure everyone, everywhere, has the same potential to read and share knowledge. We care about tackling discrimination to build a truly inclusive world. We set professional standards, support inclusive careers, and campaign for change. Supported by 60,000 global members, we're helping chemistry to change the world.



AMERICAN CHEMICAL SOCIETY

AMERICAN CHEMICAL SOCIETY (ACS)

The American Chemical Society (ACS) is a non-profit organisation founded in 1876 and chartered by the U.S. Congress. Committed to working towards a world built on science, ACS focuses on empowering a global scientific community through knowledge, global networking events, professional development, research publishing, and scientific grants & awards.

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- CAS, which connects the world's scientific knowledge to accelerate breakthroughs that improve lives.



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23RD FACS GENERAL ASSEMBLY

14-17 July 2027 |

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(ASIACHEM 2027)**



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Institut Kimia Malaysia (IKM)

Institut Kimia Malaysia (IKM) is a professional scientific organisation with strong support from our members, the government, the chemical industry, academia, and the corporate and service sectors. With decades of experience and expertise, IKM is proud to host the 21st Asian Chemical Congress (21ACC) and the 23rd General Assembly of FACS (23GA-FACS) in 2027. This prestigious event also marks a significant milestone — the celebration of IKM's 60th anniversary.

Malaysia – truly Asia

Malaysia is a captivating tourist destination that truly reflects the richness of Asian culture, values, arts, architecture, and a wide variety of culinary delights. We are also proud of our million-year-old tropical rainforests, home to one of the world's largest varieties of flora and fauna. Malaysians are well known for their warm hospitality, making every visitor feel genuinely welcome.



KUALA LUMPUR, MALAYSIA

-THE PERFECT PLACE TO MEET



Safety, Stability and Security

Malaysia is a safe, stable, and secure country. As a multiracial and multicultural society, people of various races, ethnic groups, cultures, and beliefs live together in peace and harmony. Malaysia was ranked the 18th safest and most peaceful country out of 163 nations in the Global Peace Index 2022 — a testament to its social stability and welcoming environment.



Strategic Location and Ease of Accessibility

Malaysia is strategically located in the heart of Southeast Asia, with Kuala Lumpur easily accessible from around the globe. More than 60 international airlines fly directly to Malaysia, connecting 135 major cities across 35 countries — including Australia, the UK, and the USA. This makes Malaysia a convenient and well-connected destination for travellers worldwide.



Top-Class Convention Facilities

Malaysia boasts some of the finest convention and exhibition infrastructure in the world, complemented by a wide range of accommodation options — from budget-friendly stays to luxurious hotels — to suit every preference and budget. Among the country's top venues, the World Trade Centre Kuala Lumpur (WTCKL) stands out with its state-of-the-art facilities, offering expansive spaces, including grand ballrooms, conference halls, and a plenary theatre. With a total area capable of accommodating thousands of participants, WTCKL is a premier choice for hosting impactful, large-scale events and international conferences.



Transportation and Connectivity

Kuala Lumpur is well-connected by major international airlines, while transportation within Malaysia is supported by an extensive network of roads and railways. In the city, a variety of transport options are available — including taxis, ride-hailing services, buses, and mass rapid transit — all at affordable and reasonable prices, ensuring convenient and efficient travel for visitors.



Value for Money and Shopping

Malaysia offers excellent value for money across accommodation, shopping, transportation, internet, and telecommunication services. It is also a renowned food haven, with a wide variety of cuisines — from Chinese, Cantonese, and Indian to Japanese, Korean, Western (including Italian and French), as well as rich and diverse local Malay dishes — all at affordable prices.



English as a medium of communication in Malaysia

In addition to Malay as the national language, Chinese and English are widely spoken throughout Malaysia. English is commonly used as a medium of instruction in education, including universities and research. It is also the primary language in telecommunications, the internet, business, and trade, making communication seamless for international visitors and professionals.

21ACC – A THEMATIC SESSION ON CHEMISTRY

Theme 1: Chemistry for Sustainability

Theme 2: Chemistry for Energy and Resources

Theme 3: Chemistry for the Environment and Climate Change

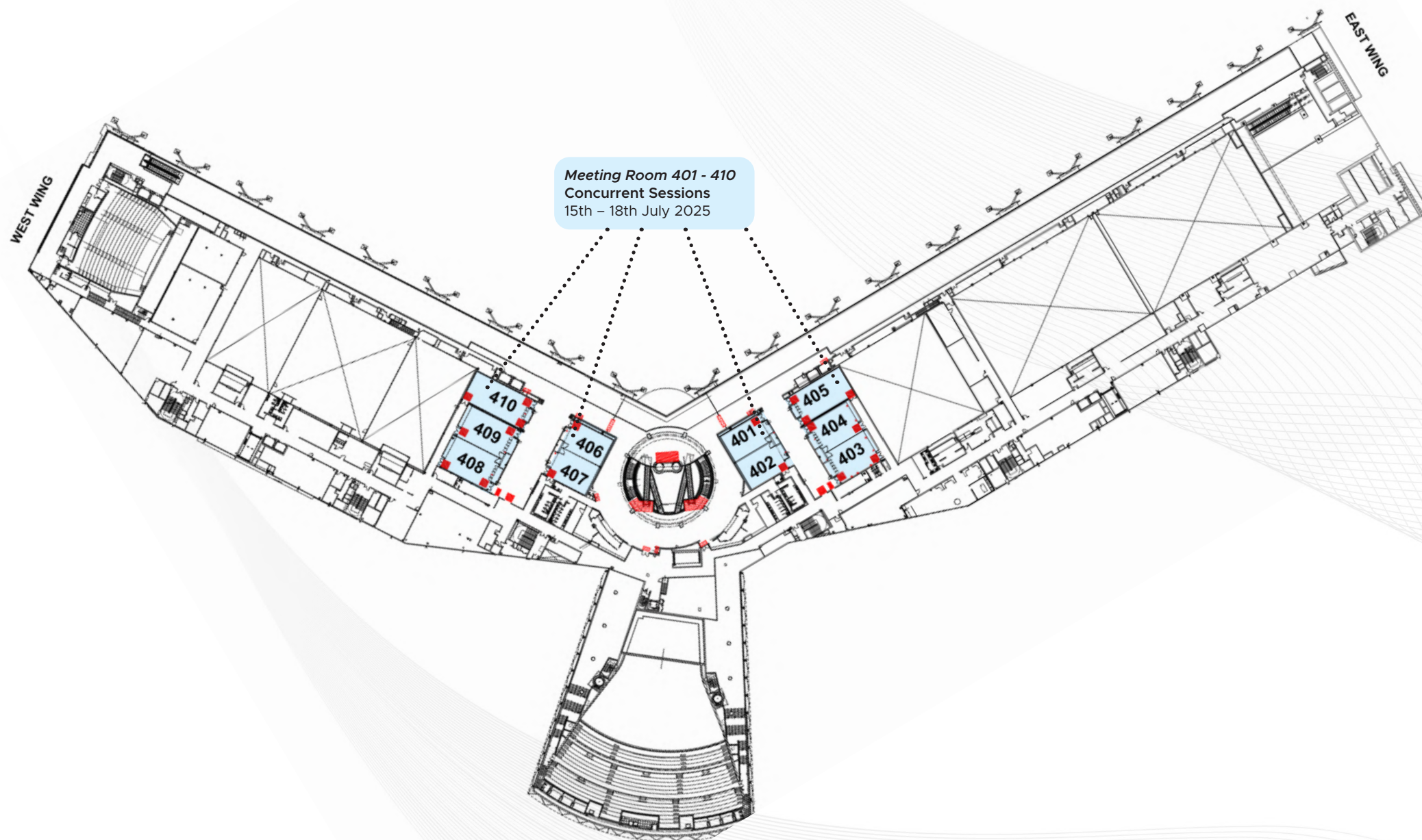
Theme 4: Chemistry and Society

Theme 5: Chemistry Education

Theme 6: Young Scientists Programme

IUPAC 2025 VENUE LAYOUT - LEVEL 3





IUPAC 2025: OVERVIEW PROGRAMME FOR THE 50TH WORLD CHEMISTRY CONGRESS

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14th July 2025, Monday - Programme Overview

Opening Ceremony	CH 1-3	1500 - 1600
PLENARY 1: Realizing Chemistry's Pivotal Role in Our Sustainable Future, Prof Peter Mahaffy, King's University, Canada	CH 1-3	1600 - 1650
PLENARY 2: The Exciting Potential of AI for Drug and Therapeutic Discovery, Prof David Winkler, La Trobe University, Australia	CH 1-3	1650 - 1740
14CS1-MR409 - TS4 Thematic session - Workshop on Chemical Safety and Security	MR409	0800 - 1500
Welcome Reception	Ballroom 1+2	1800 - 2000

15th July 2025, Tuesday - Programme Overview

Time \ Venue	CH1&2	CH3	Plenary Theatre	MR302	MR303	MR304	MR305	MR306	MR401	MR402	MR403	MR404	MR405	MR406	MR407	MR408	MR409	MR410
0800 - 0845	CH1&2 2025 CHEMISTRY EUROPE AWARD LECTURE: g-xTB: DFT accuracy at tight-binding speed Prof Stefan Grimme, University of Bonn, Germany																	
0900 - 1030	15CS1-CH1&2 Polymer & Materials	WCLM 0800 - 1100	15CS1-PT Education & Public Understanding S19	15CS1-MR302 Analytical & Forensic	15CS1-MR303 Environmental	15CS1-MR304 Environmental S17	15CS1-MR305 Environmental S17	15CS1-MR306 Polymer & Materials S18	15CS1-MR401 Green Chemistry S11	15CS1-MR402 Green Chemistry	15CS1-MR403 Inorganic & Bioinorganic	15CS1-MR404 Organic & Biomolecular	15CS1-MR405 Education & Public Understanding	15CS1-MR406 Physical & Biophysical	15CS1-MR407 Human Health & Well Being		15CS1-MR409 TS4	15CS1-MR410 SDG2
1100 - 1240	CH1&2 PLENARY 3: From Coherence in Photosynthesis to Chemical Quantum Information Science Prof Gregory Scholes, Princeton University, United States PLENARY 4: Green Chemistry toward Low-sugar Universal Vaccines and Glycoengineered Antibodies Prof Chi-Huey Wong, Scripps Research Institute, United States																	
1400 - 1600	15CS2-CH1&2 Polymer & Materials	Council Meeting 1400 - 1700	15CS2-PT Education & Public Understanding S19	15CS2-MR302 Analytical & Forensic	15CS2-MR303 Environmental	15CS2-MR304 Environmental S17	15CS2-MR305 Environmental S17	15CS2-MR306 Polymer & Materials S18	15CS2-MR401 Green Chemistry S11	15CS2-MR402 Green Chemistry	15CS2-MR403 Inorganic & Bioinorganic	15CS2-MR404 Organic & Biomolecular S03	15CS2-MR405 Education & Public Understanding	15CS2-MR406 Physical & Biophysical	15CS2-MR407 Human Health & Well Being	15CS2-MR408 TS10	15CS2-MR409 TS4	15CS2-MR410 SDG2
1630 - 1800	15CS3-CH1&2 Polymer & Materials		15CS3-PT Education & Public Understanding S19	15CS3-MR302 Analytical & Forensic		15CS3-MR304 Environmental S17	15CS3-MR305 Environmental S17	15CS3-MR306 Polymer & Materials S18	15CS3-MR401 Green Chemistry S11		15CS3-MR403 Inorganic & Bioinorganic	15CS3-MR404 Organic & Biomolecular S03	15CS3-MR405 Education & Public Understanding S21	15CS3-MR406 TS11		15CS3-MR408 TS9	15CS3-MR409 TS4	15CS3-MR410 SDG2

Key Indication

WCLM	— The World Chemistry Leadership Meeting
Analytical & Forensic	— General Session
Education & Public Understanding	— General Session
Environmental	— General Session
Green Chemistry	— General Session
Human Health & Well Being	— General Session
Inorganic & Bioinorganic	— General Session
Organic & Biomolecular	— General Session
Physical & Biophysical	— General Session
Polymer & Materials	— General Session
S03 Symposium	— Diradical Chemistry

S11 Symposium	— IUPAC Contribution and Green Chemistry Contribution Innovations towards Sustainable Development
S17 Symposium	— Carbon-Neutral Chemical Production via Advanced Nanocatalysis
S18 Symposium	— IKM-MRB Symposium on Elastomers and Latexes (IMSEL 2025)
S19 Symposium	— Systems Thinking in Chemistry for Sustainability
S21 Symposium	— CTI Workshop
SDG2	— Zero Hunger
TS10	— Thematic Session - RSC Forum on Open Knowledge Dissemination
TS11	— Thematic Session - IYCN-MYCN Young Chemist Programme
TS4	— Thematic session - Workshop on Chemical Safety and Security
TS9	— Thematic Session - ACS on Campus

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16th July 2025, Wednesday - Programme Overview

Time / Venue	CH1&2	CH3	MR302	MR303	MR304	MR305	MR306	MR401	MR402	MR403	MR404	MR405	MR406	MR407	MR408	MR409	MR410
0800 - 0845	CH1&2 IUPAC-SOONG PRIZE FOR SUSTAINABLE CHEMISTRY LECTURE: Reticular Chemistry, Climate, AI Prof Omar Yaghi, University of California, United States																
0900 - 1030	16CS1-CH1&2 Polymer & Materials S22	Council Meeting & Election 0900 - 1800	16CS1-MR302 Analytical & Forensic	16CS1-MR303 Environmental	16CS1-MR304 Environmental S17	16CS1-MR305 Environmental S17	16CS1-MR306 Polymer & Materials S18	16CS1-MR401 Green Chemistry	16CS1-MR402 Analytical & Forensic AS	16CS1-MR403 Inorganic & Bioinorganic	16CS1-MR404 Organic & Biomolecular S03	16CS1-MR405 TS3	16CS1-MR406 Physical & Biophysical	16CS1-MR407 TS1	16CS1-MR408 TS7	16CS1-MR409 TS4	16CS1-MR410 SDG13
1100 - 1240	CH1&2 PLENARY 5: Pushing Boundaries: Innovations in Organometallic Complexes and Catalysts for Advanced Chemical Transformations Prof Zhaomin Hou, RIKEN Center for Sustainable, Resource Science, Japan PLENARY 6: Rethinking Fluorine Chemistry with Global Challenges in Mind Prof Veronique Gouverneur, University of Oxford, United Kingdom																
1400 - 1600	16CS2-CH1&2 Polymer & Materials S22	Council Meeting & Election 0900 - 1800	16CS2-MR302 Analytical & Forensic	16CS2-MR303 Environmental S07	16CS2-MR304 Environmental S17	16CS2-MR305 Environmental S17	16CS2-MR306 Polymer & Materials	16CS2-MR401 Green Chemistry S11	16CS2-MR402 TS6	16CS2-MR403 Inorganic & Bioinorganic	16CS2-MR404 Organic & Biomolecular S03	16CS2-MR405 TS3	16CS2-MR406 Cheminformatics	16CS2-MR407 TS1	16CS2-MR408 TS7	16CS2-MR409 TS4	16CS2-MR410 SDG13
1630 - 1800	16CS3-CH1&2 Polymer & Materials S22		16CS3-MR302 Analytical & Forensic	16CS3-MR303 Environmental S20	16CS3-MR304 Environmental S17			16CS3-MR401 Green Chemistry	16CS3-MR402 TS6	16CS3-MR403 Inorganic & Bioinorganic		16CS3-MR405 TS3	16CS3-MR406 Cheminformatics	16CS3-MR407 TS1		16CS3-MR409 TS4	16CS3-MR410 SDG13

Key Indication

Council Election	
Analytical & Forensic AS	— Agilent Session
Analytical & Forensic	— General Session
Cheminformatics	— General Session
Environmental	— General Session
Green Chemistry	— General Session
Inorganic & Bioinorganic	— General Session
Physical & Biophysical	— General Session
Polymer & Materials	— General Session
S03 Symposium	— Diradical Chemistry
S07 Symposium	— Environmental Occurrence and Management of PFAS
S11 Symposium	— IUPAC Contribution and Green Chemistry Contribution Innovations towards Sustainable Development

S17 Symposium	— Carbon-Neutral Chemical Production via Advanced Nanocatalysis
S18 Symposium	— IKM-MRB Symposium on Elastomers and Latexes (IMSEL 2025)
S20 Symposium	— Chemical of Emerging Concern (CECs) in Polar Environments
S22 Symposium	— Biopolymers and Sustainability
SDG13	— Climate Action
TS1	— Thematic Session - Artificial Intelligence in Chemistry
TS3	— Thematic session - Green Chemistry in Education
TS4	— Thematic session - Symposium on Chemical Safety and Security
TS6	— Thematic Session - Malaysian Rubber Board (MRB) Celebrating 100 Years of Excellence in Rubber and Latex Sciences (100YC)
TS7	— Thematic Session - Professional And Responsible Practices In Chemistry Including Responsible Care Responsible Care Practices by Chemical Industries Council of Malaysia (CICM)
TS7	— Thematic Session - Professional And Responsible Practices In Chemistry Including Responsible Care Symposium on Chemistry as a Profession in Malaysia

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17th July 2025, Thursday - Programme Overview

Time / Venue	CH1&2	CH3	MR302	MR303	MR304	MR305	MR306	MR401	MR402	MR403	MR404	MR405	MR406	MR407	MR408	MR409	MR410
0900 - 1030	17CS1-CH1&2 Polymer & Materials S18	17CS1-CH3 TS8	17CS1-MR302 Analytical & Forensic	17CS1-MR303 Environmental S17	17CS1-MR304 Environmental S05	17CS1-MR305 Environmental	17CS1-MR306 Polymer & Materials	17CS1-MR401 Green Chemistry	17CS1-MR402 Organic & Biomolecular	17CS1-MR403 Inorganic & Bioinorganic	17CS1-MR404 Organic & Biomolecular	17CS1-MR405 TS11	17CS1-MR406 SDG3	17CS1-MR407 TS1	17CS1-MR408 SDG6	17CS1-MR409 TS4	17CS1-MR410 SDG7
1100 - 1240	CH1&2 PLENARY 7: Advancing the Frontiers of Semiconducting Polymers Through Precision Synthesis Prof Christine K Luscombe, Okinawa Institute of Science and Technology, Japan PLENARY 8: Design and Synthesis of Nanomaterials for Biomedical and Energy Applications Prof Jackie Yi-Ru Ying, King Faisal Specialist Hospital & Research Centre, Saudi Arabia																
1400 - 1600	17CS2-CH1&2 Polymer & Materials	17CS2-CH3 TS8	17CS2-MR302 Analytical & Forensic	17CS2-MR303 Environmental S09	17CS2-MR304 Environmental S05	17CS2-MR305 Environmental S08	17CS2-MR306 Polymer & Materials S22	17CS2-MR401 Green Chemistry S16	17CS2-MR402 Organic & Biomolecular S02	17CS2-MR403 Inorganic & Bioinorganic	17CS2-MR404 Organic & Biomolecular S04	17CS2-MR405 TS11	17CS2-MR406 SDG3	17CS2-MR407 TS1	17CS2-MR408 SDG6	17CS2-MR409 TS4	17CS2-MR410 SDG7
1630 - 1800	17CS3-CH1&2 Polymer & Materials	17CS3-CH3 TS8	17CS3-MR302 Analytical & Forensic	17CS3-MR303 Environmental S17		17CS3-MR305 Environmental S06		17CS3-MR401 Green Chemistry	17CS3-MR402 Organic & Biomolecular	17CS3-MR403 Inorganic & Bioinorganic	17CS3-MR404 Organic & Biomolecular	17CS3-MR405 TS11	17CS3-MR406 SDG3			17CS3-MR409 TS7	17CS3-MR410 SDG7

Key Indication

Analytical & Forensic	— General Session	S17 Symposium	— Carbon-Neutral Chemical Production via Advanced Nanocatalysis
Environmental	— General Session	S18 Symposium	— IKM-MRB Symposium on Elastomers and Latexes (IMSEL 2025)
Green Chemistry	— General Session	S22 Symposium	— Biopolymers and Sustainability
Inorganic & Bioinorganic	— General Session	SDG3	— Good Health & Well Being
Organic & Biomolecular	— General Session	SDG6	— Clean Water & Sanitation
Polymer & Materials	— General Session	SDG7	— Affordable & Clean Energy
S02 Symposium	— Organic Mechanochemistry	TS1	— Thematic Session - Artificial Intelligence in Chemistry
S04 Symposium	— A.I. Guided Automation in Synthetic Processes	TS11	— Thematic Session - IYCN-MYCN Young Chemist Programme
S05 Symposium	— Evaluation of Advanced Technologies for Carbon Sequestration, Utilisation and Capture	TS4	— Thematic session - Symposium on Chemical Safety and Security
S06 Symposium	— Understanding and Managing Environmental Impacts of Tire Use: From Wear Particles to End-of-Life Management	TS7	— Thematic Session - Professional And Responsible Practices In Chemistry Including Responsible Care IUPAC Guiding Principles for the Responsible Practice of Chemistry
		TS8	— Thematic session - PhosAgro/UNESCO/IUPAC Symposium Green Chemistry: Experiences and Opportunities for Co-operation for Sustainable Future

IUPAC 2025: OVERVIEW PROGRAMME FOR THE 50TH WORLD CHEMISTRY CONGRESS

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18th July 2025, Friday - Programme Overview

Time / Venue	CH1&2	CH3	MR302	MR303	MR304	MR305	MR306	MR401	MR402	MR403	MR404	MR405
0800 - 0845	CH1&2 PhosAgro/UNESCO/IUPAC/IKM Lecture: The Stockholm Declaration on Chemistry for the Future Prof Paul T Anastas, Yale University, United States											
0900 - 1030	18CS1-CH1&2 Polymer & Materials	18CS1-CH3 Education & Public Understanding	18CS1-MR302 Analytical & Fo- rensic	18CS1-MR303 SDG6	18CS1-MR304 Environmental	18CS1-MR305 Environmental S17	18CS1-MR306 SDG3	18CS1-MR401 Green Chemistry	18CS1-MR402 TS5	18CS1-MR403 Inorganic & Bioinorganic	18CS1-MR404 Organic & Biomolecular	18CS1-MR405 TS11
1100 - 1240	CH1&2 PLENARY 9: Biosensors Without Frontiers: Nucleic Acid Testing in Low Resource Areas Prof Lisa Hall, University of Cambridge, United Kingdom PLENARY 10: Continuous Movement of Carbon Atoms in Organic Molecules: Merry-Go-Round Reactions Prof Tamotsu Takahashi, Hokkaido University, Japan											
1400 - 1600	18CS2-CH1&2 Polymer & Materials	18CS2-CH3 Education & Public Understanding	18CS2-MR302 Analytical & Forensic Environmental S15	18CS2-MR303 SDG6	18CS2-MR304 Environmental S10	18CS2-MR305 Environmental	18CS2-MR306 SDG3	18CS2-MR401 Green Chemistry I SDG7	18CS2-MR402 SDG5	18CS2-MR403 Inorganic & Bioinorganic	18CS2-MR404 Organic & Biomolecular	18CS2-MR405 TS11
1630 - 1800	18CS3-CH1&2 Polymer & Materials	18CS3-CH3 SDG2			18CS3-MR304 Polymer & Materials	18CS3-MR305 Environmental		18CS3-MR401 SDG7	18CS3-MR402 SDG5	18CS3-MR403 Inorganic & Bioinor- ganic	18CS3-MR404 Organic & Biomolecular	18CS3-MR405 TS11

Key Indication

Analytical & Forensic	— General Session
Education & Public Understanding	— General Session
Environmental	— General Session
Green Chemistry	— General Session
Inorganic & Bioinorganic	— General Session
Organic & Biomolecular	— General Session
Polymer & Materials	— General Session
S10 Symposium	— Nuclear Magnetic Resonance Spectroscopy for Environment and Sustainability
S15 Symposium	— Microplastics and Nanoplastics

S17 Symposium	— Carbon-Neutral Chemical Production via Advanced Nanocatalysis
SDG2	— Zero Hunger
SDG3	— Good Health & Well Being
SDG5	— Gender Equality
SDG6	— Clean Water & Sanitation
SDG7	— Affordable & Clean Energy
TS11	— Thematic Session - IYCN-MYCN Young Chemist Programme
TS5	— Thematic Session - Invest Sarawak

19th July 2025, Saturday - Programme Overview

IKM GOLD MEDAL AWARD LECTURE: Mesosstructured Materials Driving Innovations in Clean Energy and Environmental Sustainability, Juan Joon Ching, Universiti Malaya, Malaysia	0900 - 1000	CH1&2
PLENARY 11: Cinematic Chemistry: The Journey of Electron Microscopy from Organic Synthesis to Molecular Statistics, Prof Eiichi Nakamura, University of Tokyo, Japan	1030 - 1110	CH1&2
PLENARY 12: Single-Atom Catalysis, Prof Zhang Tao, Chinese Academy of Sciences, China	1110 - 1200	CH1&2
CLOSING CEREMONY	1200 - 1230	CH1&2



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- | Advanced Rubber and Latex Applications
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“ We encourage the submission of original research articles, review articles, and short communications. Kindly note that submissions with up to two corresponding authors are accepted. ”

Submission Deadline

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For 100 years, the Malaysian Rubber Board (MRB) has been at the forefront of research and development in rubber chemistry and technology, driving advancements that have cemented our position as a cornerstone of the rubber sector. This year, as we celebrate a Century of Innovation and Partnership, we are honoured to enhance our collaboration with the Malaysian Institute of Chemistry (Institut Kimia Malaysia, IKM) by co-organising the “IKM-MRB Symposium on Elastomers and Latexes (IMSEL 2025)” during the esteemed 50th World Chemistry Congress (50WCC), held under the auspices of IUPAC 2025. We are providing a publication opportunity through a prestigious Special Issue (SI) of the Journal of Rubber Research (JRR), a SpringerLink journal indexed in Scopus. We welcome innovative and value-added research areas within the niche of rubber science.



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REGISTRATION / HELP DESK, SPEAKER READY ROOM & POSTER COUNTER OPERATION HOURS

DATE & VENUE / OPERATION HOUR	14TH JULY 2025, MONDAY	15TH JULY 2025, TUESDAY	16TH JULY 2025, WEDNESDAY	17TH JULY 2025, THURSDAY	18TH JULY 2025, FRIDAY	19TH JULY 2025, SATURDAY
Registration/ Help Desk, Centre Core (Level 3)	0700 - 1800	0700 - 1800	0700 - 1800	0700 - 1800	0700 - 1800	0800 - 1300
Speaker Ready Room, MR308 – 309 (Level 3)	0700 - 1800	0700 - 1800	0700 - 1800	0700 - 1800	0700 - 1800	Close
Poster Counter, Banquet Hall (Level 3)	Close	0700 - 1800	0700 - 1800	0700 - 1800	0700 - 1800	

DATE & VENUE / OPERATION HOUR	14TH JULY 2025, MONDAY	15TH JULY 2025, TUESDAY	16TH JULY 2025, WEDNESDAY	17TH JULY 2025, THURSDAY	18TH JULY 2025, FRIDAY	19TH JULY 2025, SATURDAY
Poster Counter, Banquet Hall (Level 3)	Close	SESSION 1 Mounting Time: 15th July 2025 0900hrs Dismantle Time: 16th July 2025 1600hrs		SESSION 2 Mounting Time: 17th July 2025 0900hrs Dismantle Time: 18th July 2025 1600hrs		Close

IUPAC 2025: DETAILED PROGRAMME FOR THE 50TH WORLD CHEMISTRY CONGRESS

14th July 2025, Monday – Level 3

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Time	CH1-3	MR409	Ballroom 1+2
0700 - 1800	Registration	0900 - 1500 14CS1-MR409 TS4 Thematic session - Workshop on Chemical Safety and Security <i>By Invitation Only</i>	
1500 - 1600	Opening Ceremony		
1600 - 1650	PLENARY 1 Realizing Chemistry's Pivotal Role in Our Sustainable Future Prof Peter Mahaffy King's University, Canada Chairperson: Soon Ting Kueh, Malaysia		
1650 - 1740	PLENARY 2 The Exciting Potential of AI for Drug and Therapeutic Discovery Prof David Winkler La Trobe University, Australia Chairperson: Sim Siong Fong, Malaysia		
1800 - 2000			Welcome Reception

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15th July 2025, Tuesday – Level 3

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Time	CH1&2							
0800 - 0845	15CS1A-CH1&2 2025 CHEMISTRY EUROPE AWARD LECTURE g-xTB: DFT accuracy at tight-binding speed Prof Stefan Grimme University of Bonn, Germany Chairperson: Jing Tang, China							
Time	CH1&2	CH3	Plenary Theatre	MR302	MR303	MR304	MR305	MR306
0900 - 1030	15CS1-CH1&2 Polymer & Materials Chairperson: Rizafizah Othaman, Malaysia 0900 - 0915 298 (O): The NCO cycle: A two-step complete recycling process for polyurethanes Marthe Nees, Belgium 0915 - 0930 1394 (O): Performance evaluations of polyurethane films synthesized from castor oil as part of the polyols in line with poly (tetrahydrofuran) polyol Sau Leng Sin, Malaysia 0930 - 0950 2365 (I): Development of sustainable materials with self-healing and chemically recyclable polydiurethanes Yoshiaki Yoshida, Japan 0950 - 1020 1837 (K): Functional polymers: From new synthetic routes to applications in energy storage Patrick Theato, Germany 1020 - 1035 2438 (O): Mechanochemical surface engineering of metal oxides for enhanced performance in heterogeneous catalysis Ana Paula Da Costa Ribeiro, Portugal	0800 - 1100 The World Chemistry Leadership Meeting (WCLM)	15CS1-PT Education & Public Understanding S19 Symposium - Systems Thinking in Chemistry for Sustainability Chairperson: Peter Mahaffy, Canada Stephen Matlin, United Kingdom 0900 - 0930 1961 (K): Zoom out, wake up: Connecting chemistry with what matters Seamus Delaney, Australia 0930 - 0945 2492 (O): Integrating systems thinking into chemistry education to enhancing pre-service teachers' climate change instruction Kah Heng Chua, Malaysia 0945 - 1000 1879 (O): Systems thinking for material stewardship: Implications for chemistry education Stephen Matlin, United Kingdom 1000 - 1030 Panel Discussion	15CS1-MR302 Analytical & Forensic Chairperson: Malarvili Ramalingam, Malaysia 0900 - 0930 1068 (K): Use of unconventional solvents, greener approaches to sample preparation in environmental analysis and current challenges Slavica Razić, Serbia 0930 - 0950 1027 (I): How efficient can be digestion systems using diluted acids for the determination of REE and toxic elements in edible insects by ICP-MS? Erico Marlon De Moraes Flores, Brazil 0950 - 1005 1402 (O): Expanding the elemental and isotopic toolbox in support of the sustainable development goals Johanna Irrgeher, Austria	15CS1-MR303 Environmental Chairperson: Juan Joon Ching, Malaysia 0900 - 0930 201 (K): Solar-to-X technologies and their essential role in a resilient and low-carbon future Gabriele Centi, Italy 0930 - 0950 1308 (I): Carbon nanomaterials doped carbon nitride for efficient photocatalytic degradation of environmental pollutants Season Si Chen, China 0950 - 1005 1711 (O): Plasma surface modification of aluminium powder for green hydrogen generation Keun Su Kim, Canada 1005 - 1020 2665 (O): Catalytic valorization of CO₂ into cyclic carbonates: Toward sustainable carbon utilization Suzaimi Johari, Malaysia 1020 - 1035 2689 (O): Integrating <i>Spirulina platensis</i> cultivation and aerobic composting exhaust for carbon mitigation and biomass production Weidong Lu, China 1035 - 1050 2019 (O): Comparative green practices to extract and characterize the different precious, toxic and rare earth metals from E-wastes Jyoti Giri, Nepal	15CS1-MR304 Environmental S17 Symposium - Carbon-Neutral Chemical Production Via Advanced Nanocatalysis Chairperson: Ong Wee-Jun, Malaysia Haw Choon Yian, Malaysia 0825 - 0830 Opening Address 0830 - 0900 2692 (K): Materials for a sustainable energy future Joel Ager, United States 0900 - 0930 2748 (K): Battery innovation empowered by lithium bond and artificial intelligence Qiang Zhang, China 0930 - 1000 2388 (K): Solar-assisted CO₂ reduction: From mechanistic understanding to device engineering Gong Jinlong, China 1000 - 1030 2410 (K): Design of heterogeneous catalysts for precision catalysis Ye Wang, China	15CS1-MR305 Environmental S17 Symposium - Carbon-Neutral Chemical Production Via Advanced Nanocatalysis Chairperson: Nabilah Saafie, Malaysia 0900 - 0930 2696 (K): Towards Al²⁺ Electrochemistry Jun Cheng, China 0930 - 0950 2332 (I): Optimizing CuSx/CoSx electrocatalysts via sulfidation for sustainable green hydrogen production from seawater Mohd Sukor Suait, Malaysia 0950 - 1010 1964 (I): Fundamental perspectives guiding the rational design of TM-N-C-based oxygen reduction reaction catalysts for PEM fuel cells Wong Wai Yin, Malaysia 1010 - 1030 2693(I): Scalable synthesis of Earth-Abundant catalysts via magnetron sputtering for electrochemical water splitting Siva Krishna Karuturi, Australia	15CS1-MR306 Polymer & Materials S18 Symposium - IKM-MRB Symposium on Elastomers and Latexes (IMSEL 2025) Chairperson: Nadras Othman, Malaysia 0900 - 0920 2397 (I): Recycling EPDM molded flash through continuous thermo-mechanical devulcanization Nik Intan Nik Ismail, Malaysia 0920 - 0940 2357 (I): Influence of viscosity and rubber variants on the molecular characteristics of natural rubber depolymerization Krishna Veni Baratha Nesan, Malaysia 0940 - 1000 1941 (I): Eco-friendly synthesis of crosslinked microspheres from epoxidized natural rubber latex toward sustainable polymer development Siti Nor Qamarina Manaf, Malaysia 1000 - 1030 2653 (K): Direct observation of both formation and degradation of rubbers by Electron Spin Resonance (ESR) Atsushi Kajiwar, Japan
1030 - 1100	AM Tea Break							

15th July 2025, Tuesday – Level 3

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Time	CH1&2							
1100 - 1150	PLENARY 3 From Coherence in Photosynthesis to Chemical Quantum Information Science Prof Gregory Scholes Princeton University, United States Chairperson: Zhigang Shuai, China							
1150 - 1240	PLENARY 4 Green Chemistry toward Low-sugar Universal Vaccines and Glycoengineered Antibodies Prof Chi-Huey Wong Scripps Research Institute, United States Chairperson: Ehud Keinan, United States							
1240 - 1400	Lunch							
Time	CH1&2	CH3	Plenary Theatre	MR302	MR303	MR304	MR305	MR306
1400 - 1600	15CS2-CH1&2 Polymer & Materials Chairperson: Wan Md Zin Wan Yunus, Malaysia 1400 - 1415 2093 (O): Interconnectivity of microcellular foams produced via high internal phase emulsion templating Reza Foudazi, United States 1415 - 1430 2175 (O): Air-stable covalent organic frameworks as multifunctional lubricant additives Ahmad Nasri Bin Mohd Shafie, Malaysia 1430 - 1445 1783 (O): Solid-phase electrosynthesis Mao Li, China 1445 - 1500 2642 (O): Upcycling oil palm mesocarp fibers: Sustainable TEMPO-Oxidized nanocellulose for antimicrobial nanocomposite hydrogels Jeck Fei Ng, Malaysia 1500 - 1515 1736 (O): Nitrogen-sulphur co-functionalized reduced graphene oxide for supercapacitors: A preliminary study Ellie Yi Lih Teo, Malaysia	Council Meeting	15CS2-PT Education & Public Understanding S19 Symposium - Systems Thinking in Chemistry for Sustainability Chairperson: Peter Mahaffy, Canada Stephen Matlin, United Kingdom 1400 - 1415 1845 (O): Systems thinking in the chemistry classroom: Training instructors so they can train their students David Laviska, United States 1415 - 1430 2074 (O): Exploring renewable feedstocks in the laboratory classroom through systems thinking Jane Wissinger, United States 1430 - 1445 2034 (O): Systems thinking in the laboratory classroom Thomas Logothetis, United Kingdom 1445 - 1500 1111 (O): Pre-service chemistry teachers' action competence and self-efficacy in teaching sustainability Hazel Joyce Ramirez, Philippines	15CS2-MR302 Analytical & Forensic Chairperson: Jamilah Karim, Malaysia 1400 - 1430 1554 (K): Accelerated reactions in microdroplets: Mechanisms and applications in organic synthesis and drug discovery Robert Graham Cooks, United States 1430 - 1445 2243 (O): Pushing the boundaries of lipidomic profiling toward low-abundance lipid classes Yu Xia, China 1445 - 1500 1577 (O): Isomer-Level structural resolving of lipids Suming Chen, China 1500 - 1515 2215 (O): Structure lipidomics – large scale, imaging and single cell analysis Zheng Ouyang, China 1515 - 1530 1569 (O): High-throughput single-cell structural lipidomics Xiaoxiao Ma, China	15CS2-MR303 Environmental Chairperson: Season Si Chen, China 1400 - 1430 2331 (K): Towards precision control of chemical reactions on metal surfaces for green chemistry Nanfeng Zheng, China 1430 - 1445 1386 (O): Oxidative degradation of Venlafaxine in a 3D-printed lab-scale electrochemical cell Martin Šeřík, Czechia 1445 - 1500 1250 (O): Photoreforming of lignocellulose over single-atom Fe dispersed polymeric carbon nitride homojunctions Can Xue, Singapore 1500 - 1515 1090 (O): Development of hyper-cross-linked resin for water remediation effort from a variety of pollutants Mochamad Lutfi Firmansyah, Saudi Arabia 1515 - 1530 1543 (O): Quantitative speciation of arsenic, chromium and mercury in water and river sediments Abayneh Ataro Ambushe, South Africa	15CS2-MR304 Environmental S17 Symposium - Carbon-Neutral Chemical Production Via Advanced Nanocatalysis Chairperson: Ong Wee-Jun, Malaysia Haw Choon Yian, Malaysia 1400 - 1430 1847 (K): Electrochemical conversion of CO ₂ using single atom decorated catalysts Soo Young Kim, Korea, Rep. 1430 - 1450 2057 (I): Activation of small molecules (CO ₂ , N ₂) with catalysis, heat, and light Jennifer Strunk, Germany 1450 - 1510 1656 (I): Catalytic transformation of water pollutants via nonradical oxidation Xiaoguang Duan, Australia 1510 - 1530 1363 (I): Catalytic depolymerization of polyethylene and polystyrene Jason Lim, Singapore	15CS2-MR305 Environmental S17 Symposium - Carbon-Neutral Chemical Production Via Advanced Nanocatalysis Chairperson: Nabilah Saafie, Malaysia 1400 - 1430 1913 (K): Photothermal catalysis for reforming of methane Hongqi Sun, Australia 1430 - 1500 2144 (K): Heterogeneous molecular catalysis for electrochemical CO ₂ reduction Yijiao Jiang, Australia 1500 - 1520 1888 (I): Development of sustainable chemical transformations via rationally designed heterojunction photocatalysts Onder Metin, Turkiye 1520 - 1540 2666 (I): Photoelectrochemical activity of Fe ₂ O ₃ /Nickel-Foam photoanode under electrolyte bias for water splitting Lorna Jeffery Minggu, Malaysia	15CS2-MR306 Polymer & Materials S18 Symposium - IKM-MRB Symposium on Elastomers and Latexes (IMSEL 2025) Chairperson: Jittlada Sakdapipanich, Thailand 1400 - 1420 2172 (I): Biodegradable antimicrobial latex films for stethoscope diaphragm covers via latex dipping process Azura A Rashid, Malaysia 1420 - 1440 2048 (I): Beyond isocyanates: Charting the course for green polyurethane in rubber and latex Siangyin Lee, Malaysia 1440 - 1500 2366 (I): Impact of RRIM HYDROBEST and MORTEX stimulants on latex properties in PB350 clone rubber trees: A comparative study Dazlyah Darji, Malaysia 1500 - 1530 1702 (K): Microbial rubber degradation: Navigating the challenges for a sustainable future Kumar Sudesh, Malaysia

15th July 2025, Tuesday – Level 3

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Time	CH1&2	CH3	Plenary Theatre	MR302	MR303	MR304	MR305	MR306
1400 - 1600	1515 - 1530 1458 (O): Thermal diffusion processes in polymer composites based on N, N-diethyl-3-methylbenzamide Sergei Zverev, Russian Federation 1530 - 1545 1635 (O): Unconventional applications and potentials of bulk graphene materials Tengfei Zhang, China 1545 - 1605 2549 (I): Valorization of woody biomass toward a circular and sustainable material cycle Yoshito Andou, Japan	Council Meeting	1500 - 1515 2566(O): Renewing chemistry pedagogy: implementing systems thinking in chemistry teacher education Mageswary Karpudewan, Malaysia 1515 - 1600 Panel Discussion	1530 - 1545 1372 (O): In-situ mechanism characterization of electrochemical reactions via development of floating electrospray mass spectrometry Zhenwei Wei, China 1545 - 1600 2224 (O): Common minerals disintegrate in microdroplets forming nanoparticles (a path to sustainable agriculture) Thalappil Pradeep, India	1530 - 1545 1642 (O): Unravelling the role of oxygenated functional groups in carbon-based materials for selective H₂O₂ electrogeneration Taynara Oliveira Silva, Brazil 1545 - 1600 1623 (O): Fe-containing natural bentonites for the catalytic decontamination of highly hazardous phosphorus and sulphur pollutants Matteo Guidotti, Italy 1600 - 1615 1058 (O): Group II promoters for sulphur contaminated Ni/Y-Al₂O₃ catalysts in CO₂ hydrogenation Hasliza Bahruji, Brunei Darussalam 1615 - 1630 2302 (O): Turning waste into value: Innovative approach of hydrated lime waste for CO₂ capture Shazleen Saadon, Malaysia		1540 - 1555 1934 (O): Catalytic transformation of cellulose using basic copper carbonate prepared via supercritical CO₂ antisolvent precipitation Kok Hou Tan, United Kingdom 1555 - 1610 2061 (O): Probing the independent effects of pyrolysis temperature and reducing gas treatment on active-site formation in Pt, Fe-N-C intermetallic catalyst for acidic oxygen reduction reaction Muhamad Amirul Aiman Mohd Nor, Malaysia	1530 - 1600 1803 (K): Advanced functional nanocomposites of natural rubber and synthetic polymers: Bridging performance and sustainability Rusli Daik, Malaysia
1600 - 1630	PM Tea Break							
Time	CH1&2	CH3	Plenary Theatre	MR302	MR304	MR305	MR306	
1630 - 1800	15CS3-CH1&2 Polymer & Materials Chairperson: Satriani Aga Pasma, Indonesia 1630 - 1645 2251 (O): First-principles investigation of the structural and mechanical properties of PtO₂/AlN Van der Waals heterostructures for potential anode applications Blessing Masora, South Africa 1645 - 1700 1399 (O): Development of sustainable materials by incorporating waste alkaline sludge for CO₂ capture Siti Sarahah Sulhadi, Malaysia 1700 - 1715 2480 (O): High-performance polymeric electrode materials for organic batteries Hungju Yen, Taiwan, China	Council Meeting	15CS3-PT Education & Public Understanding S19 Symposium – Systems Thinking in Chemistry for Sustainability Session Chairperson: Peter Mahaffy, Canada Stephen Matlin, United Kingdom 1630 - 1640 Co-chair Introduction 1640 - 1650 2534 (I): Opportunities and barriers in the sustainable transformation of the chemical industry - A systems thinking approach Christian Heinz Werner Holtze, Germany	15CS3-MR302 Analytical & Forensic Chairperson: Kumuthini Chandrasekaram, Malaysia 1630 - 1700 1886 (K): Combined analytical methods for the structural characterization of isomers mixtures Aura Tintaru, France 1700 - 1715 1432 (O): Investigation of antimicrobial effect of UVC against <i>Staphylococcus</i> spp. Mohd Yaman Idris, Malaysia	15CS3-MR304 Environmental S17 Symposium - Carbon-Neutral Chemical Production Via Advanced Nanocatalysis Chairperson: Nabilah Saafie, Malaysia 1630 - 1700 2329 (K): Catalysing sustainable chemical manufacturing Adam Lee, Australia 1700 - 1715 2235 (O): Potassium-driven pathway modulation in CO₂ hydrogenation: Tuning ethanol and liquid fuels synthesis over FeCuAl catalyst Wenjie Xiang, Japan	15CS3-MR305 Environmental S17 Symposium - Carbon-Neutral Chemical Production Via Advanced Nanocatalysis Chairperson: Ong Wee-Jun, Malaysia Haw Choon Yian, Malaysia 1630 - 1700 1701 (K): Photon-phonon co-driven conversion of CH₄ to C₂ Junwang Tang, China 1700 - 1720 1892 (I): Mechanism on artificial photosynthesis of H₂O₂: A C₃N₄ surface study Pengxin Liu, China	15CS3-MR306 Polymer & Materials S18 Symposium - IKM-MRB Symposium on Elastomers and Latexes (IMSEL 2025) Chairperson: Ho Chee Cheong, Malaysia 1630 - 1650 1954 (I): Resolving the microstructure of natural rubber and its influence on the mechanical properties Jinrong Wu, China 1650 - 1710 2522 (I): Sustainable compounding: Innovations in green ingredients for the rubber industry Nadras Othman, Malaysia	

15th July 2025, Tuesday – Level 3

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Time	CH1&2	CH3	Plenary Theatre	MR302	MR304	MR305	MR306
1630 - 1800	1715 - 1730 1207 (O): Solvent acidolysis crystallization of halide perovskite single crystals Ahmed Abdelhady, United Arab Emirates 1730 - 1750 1060 (I): Synthesis of high-performance polymers from naturally occurring Myo-Inositol Atsushi Sudo, Japan 1750 - 1805 569 (O): Effect of chemical modification on date palm fibers Helanka Perera, Sri Lanka	Council Meeting	1650 - 1700 2340 (I): PET cradle-to-cradle recycling Fanny Liao, Taiwan, China 1700 - 1710 2399 (I): Systems thinking, sustainability and chemical industry: Ammonia as an energy carrier Jeanette Simpson, United Kingdom 1710 - 1720 2695(I): Systems thinking, sustainability and chemical industry: Scope and limitations of life-cycle assessment Ulla Letinois, Switzerland 1720 - 1730 2532 (I): Systems thinking, sustainability and chemical industry: Advancing industry's role Bernard West, Canada 1730 - 1800 Panel Discussion	1715 - 1730 2244 (O): Analysis of Volatile Organic Compounds (VOC) in selected cooking oils using headspace-GC/MS technique Raznim Arni Abd Razak, Malaysia 1730 - 1745 2407 (O): Application of LC-MS-based metabolomics in optimizing harvesting time and plant part selection in <i>Baeckea frutescens</i> Fauziah Abdullah, Malaysia	1715 - 1730 1996 (O): Pluronic F127-assisted synthesis of mesoporous FeNC as advanced electrocatalysts for oxygen reduction reaction Muhammad Amirul Aiman Abdul Rani, Malaysia 1730 - 1745 2655 (O): CoNiCuRu/MWCNT catalyst achieving 43.3% energy efficiency for electrochemical ammonia production from nitrate Jinuk Choi, Korea, Rep. 1745 - 1800 2654 (O): High-entropy transition metal dichalcogenide catalysts for urea oxidation Hyojung Lim, Korea, Rep.		1710 - 1730 2350 (I): Evaluation of recovered carbon black in wet natural rubber masterbatch: Comparison of physical, dynamic properties, and product performance with commercial carbon black Siti Salina Sarkawi, Malaysia 1730 - 1800 1595 (K): Innovating natural latex: From scientific foundations to sustainable industrial applications Jitladda Sakdapipanich, Thailand
1800	End of 15th July 2025 - Level 3 Programme						

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15th July 2025, Tuesday – Level 4

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Time	MR401	MR402	MR403	MR404	MR405	MR406	MR407	MR409	MR410
0900 - 1030	15CS1-MR401 Green Chemistry S11 Symposium - IUPAC Contribution and Green Chemistry Contribution Innovations towards Sustainable Development Chairperson: Jane Wissinger, United States 0900 - 0910 Introduction to the Symposium S11 0910 - 0940 1240 (K): Catalysis and sustainability from atom to planetary scale Javier Pérez Ramírez, Switzerland 0940 - 1000 1322 (I): Sequestration of environmental contaminants using porous hybrid nanoadsorbents: A step towards sustainable environment Sahel Fajal, India 1000 - 1015 530 (O): Generation of in-situ blended H₂ in methane from methanol reforming Zohaib Suhail, United States 1015 - 1030 2291 (O): Depolymerizing transesterification and amidation of (poly)lactic acid enabled by resonant acoustic mixing Anton Makarov, Saudi Arabia	15CS1-MR402 Green Chemistry Chairperson: Ho Chee Cheong, Malaysia 0900 - 0920 2004 (I): Sustainable and pH-responsive polyurethane-acrylate for advanced drug delivery Choy Sin Lee, Malaysia 0920 - 0935 763 (O): Moisture resistant K-loaded ZIF-8 catalyst for glycerol carbonate production Anshu Tyagi, India 0935 - 0950 2114 (O): Selective production of biomass-derived diols with tungsten-based catalysts Aiqin Wang, China 0950 - 1005 2210 (O): Highly porous pyrolyzed MIL-101-derived catalyst for the efficient deoxygenation of PFAD into green diesel Sivasangar Seenivasagam, Malaysia 1005 - 1020 2168 (O): Sustainable catalysis for the valorization of feedstock into high value chemicals Shashikant Dighe, Singapore 1020 - 1040 2670 (I): Application of green chemistry in industrial pollution control Hossein Ganjidopust, Iran, Islamic Rep.	15CS1-MR403 Inorganic & Bioinorganic Chairperson: Nur Nadia Dzulkifli, Malaysia 0900 - 0930 562 (K): Control of excited states, nanostructures and functions through molecular design and supramolecular assembly Vivian Wing Wah Yam, Hong Kong, China 0930 - 0950 2223 (I): NHC and Phosphinous acid palladium precatalysts: Efficient catalysis in Kumada and several cross-coupling reactions Yuchang Chang, Taiwan, China 0950 - 1005 2313 (O): Supramolecular triple-stranded helicates as building blocks for discrete molecular cages Thanh Nhan Nguyen, Korea, Rep. 1005 - 1020 2143 (O): Investigation of the cation capturing property on a Pd(II) complex with a bis(1-(2-pyridyl)imidazole-2-thione) ligand linked by alkyl diether Kenji Matsumoto, Japan 1020 - 1035 1280 (O): Developing bioorganometallic complexes for cancer and microbial diseases Prinessa Chellan, South Africa	15CS1-MR404 Organic & Biomolecular Chairperson: Zuriati Zakaria, Malaysia 0900 - 0930 2416 (K): Reconstructing biosynthetic pathways for complex fungal natural products Emily Parker, New Zealand 0930 - 0950 2757 (I): Asymmetric catalysis with carbocation surrogates Craig Johnston, United Kingdom 0950 - 1005 1555 (O): On-bead amidation for the site-selective side-chain modification Chai Lin Kao, Taiwan, China 1005 - 1020 2677 (O): Oxidative cyclization via nitrosonium ions Ahmad Saifuddin Mohamad Arshad, Malaysia	15CS1-MR405 Education & Public Understanding Chairperson: Fun Man Fung, Ireland 0900 - 0930 2296 (K): Applying prequestioning as a learning strategy Fun Man Fung, Ireland 0930 - 0945 1202 (O): Bridging cultural differences in education: Fostering equality, connection, and critical engagement in the modern classroom Yihsin Liu, Taiwan, China 0945 - 1000 1553 (O): Generative AI assisted design of machine learning models for polymer identification and sorting in undergraduate labs Benji Fenech Salerno, United Kingdom 1000 - 1015 1588 (O): Ni-catalysed cross-couplings: Undergraduate-led practical investigations Ravi Singh, United Kingdom	15CS1-MR406 Physical & Biophysical Chairperson: Frances Separovic, Australia 0900 - 0930 1846 (K): Putting the solvent in the spotlight Martina Havenith, Germany 0930 - 1000 2330 (K): Nanoengineering catalysts for biorefining Karen Wilson, Australia 1000 - 1020 2010 (I): Bridging theory and experiment: Towards realistic modelling of complex systems Tommaso Giovannini, Italy	15CS1-MR407 Human Health & Well Being Chairperson: Mardhiah Ismail, Malaysia 0900 - 0920 1699 (I): Nanoengineering antimicrobial macromolecules via the amine uncaging strategy Edgar Wong, Australia 0920 - 0940 2262 (I): Polluted microenvironment and health Asmita Patil, India 0940 - 0955 1733 (O): Antiviral potential of <i>Euphorbia</i> spp. extracts against SARS-CoV-2 and Dengue Virus Type-2 Maizatul Hasyima Omar, Malaysia 0955 - 1010 1093 (O): Analysis of terpene profiles and the mosquito larvicidal activity of the essential oils of a medicinal <i>Cannabis sativa</i> L. <i>Cultivar</i> Ronnie Blair, Jamaica	15CS1-MR409 TS4 Thematic Session - Workshop on Chemical Safety and Security <i>By Invitation Only</i>	15CS1-MR410 SDG2: Zero Hunger Food and Agriculture Sustainability Chairperson: Zamri Ishak, Malaysia 0900 - 0930 2528 (K): Feeding the future: Strategic pathways to achieving zero hunger Wickneswari Ratnam, Malaysia 0930 - 1000 2706 (K): Advancing food security in Malaysia through sustainable agriculture Christopher John Biai, Malaysia 1000 - 1030 2597 (K): From flock to fork: Poultry welfare and food safety for a secure future Zulkifli Idrus, Malaysia
1030 - 1100	AM Tea Break								
1100 - 1240	Plenary Session at CH1&2								
1240 - 1400	Lunch								

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Time	MR401	MR402	MR403	MR404	MR405	MR406	MR407	MR408	MR409	MR410
1400 - 1600	15CS2-MR401 Green Chemistry S11 Symposium - IUPAC Contribution and Green Chemistry Contribution Innovations towards Sustainable Development Chairperson: Buxing Han, China 1400 - 1405 Introduction to the Symposium S11 1405 - 1435 1852 (K): Green approaches to recycling of polyester wastes into chemicals Zhimin Liu, China 1435 - 1455 1320 (I): Toward green synthetic approaches of C6 bio-based platform chemicals Fabio Arico', Italy 1455 - 1515 1893 (I): Green and controllable synthesis of porous functional materials and their application in water treatment Li Peng, China 1515 - 1530 1261 (O): Chemical recycling of mixed textiles: An unexpensive alternative for the spandex issue Jose Jonathan Rubio Arias, Belgium 1530 - 1550 2196 (I): Formic acid-assisted deoxygenation of fatty acids into green diesel, fatty-ketones and aldehydes Banothile Makhubela, South Africa	15CS2-MR402 Green Chemistry Chairperson: Lee Choy Sin, Malaysia 1400 - 1420 2662(I): Sustainable solutions for recycling Jong Min Lee, Korea, Rep. 1420 - 1435 2110 (O): Layered double hydroxide-supported palladium nanocatalysts in Suzuki-Miyaura coupling: A depth review Alyaa Kamal, Malaysia 1435 - 1450 2227 (O): Development of porous Ce-based MOF derived catalyst for solvent free long chain fatty acid conversion to elongated bio-wax ketone intermediates via Ketonization reaction Renuga Kannan, Malaysia 1450 - 1505 2250 (O): Excited state management and device applications of high mobility emissive organic semiconductors Can Gao, China 1505 - 1520 2283 (O): Cyclodextrin enhanced ultrasound-assisted extraction of bioactive compounds from <i>Zingiber montanum</i>: A green extraction method Bunleu Sungthong, Thailand	15CS2-MR403 Inorganic & Bioinorganic Chairperson: Tan Kar Ban, Malaysia 1400 - 1430 202 (K): Stoichiometric and catalytic reactions with N-heterocyclic carbene pincer ligands Pierre Braunstein, France 1430 - 1450 1874 (I): Unlocking cobalt oxide's potential: Advancing photoelectrochemical hydrogen production beyond conventional materials Mohammad Kassim, Malaysia 1450 - 1505 1466 (O): Amorphous catalysts for CO₂ electrocatalysis and selective formation of C1 and C2 products Akshayini Muthuperiyanayagam, United Kingdom 1505 - 1520 1652 (O): Exceptionally stable metathesis catalysts for green chemistry Bartosz Trzaskowski, Poland 1520 - 1535 1804 (O): Mixed-potential-driven catalysis: An electrochemical mechanism for room-temperature co-oxidation on gold catalysts Mo Yan, Japan 1535 - 1550 2121 (O): Utilization of the electron-rich carboranes as unique basic catalysts in organic synthesis Peter Sramel, Czechia	15CS2-MR404 Organic & Biomolecular Chairperson: Manabu Abe, Japan 1400 - 1410 Opening Manabu Abe, Japan 1410 - 1430 700 (I): Light emission in diradicals and triradicals Juan Casado Cordon, Spain 1430 - 1450 675 (I): Luminescence of assembled radicals Tetsuro Kusamoto, Japan 1450 - 1510 679 (I): Elucidation of spin-correlated luminescence of a carbazole-containing diradical emitter under high magnetic fields Asato Mizuno, Japan 1510 - 1530 572 (I): The influence of bridge states on the exchange interaction in bis-triarylamine biradical dications Christoph Lambert, Germany 1530 - 1550 663 (I): The taming of <i>m</i>-xylylene type singlet diradicaloid by dispersion force Yoshito Tobe, Taiwan, China	15CS2-MR405 Education & Public Understanding Chairperson: Denis Zhilin, Russian Federation 1400 - 1430 333 (K): Improving the public perception of science/chemistry through simple experiments connected with daily life Uday Maitra, India 1430 - 1445 2351 (O): Chemistry on the go Hsien Chang Kao, Taiwan, China 1445 - 1500 2199 (O): The ACS global recognition program as a catalyst to fostering cross border collaborations Wasiu Lawal, United States 1500 - 1515 2201 (O): Chemical philately: The world of chemistry on postage stamps Daniel Rabinovich, United States S13 Symposium - Multi-Language Dictionary for Chemistry Education Chairperson: Denis Zhilin, Russian Federation 1515 - 1530 1531 (I): Texts in chemistry education: Difficulties in translation Denis Zhilin, Russian Federation	15CS2-MR406 Physical & Biophysical Chairperson: Chong Kwok Feng, Malaysia 1400 - 1420 1814 (I): Doing chemistry sustainably Alison Rodger, Australia 1420 - 1435 1505(O): Modulating mass transport under confinement via structural and interfacial designs Ningran Wu, China 1435 - 1450 668(O): Solvation shifts the band edge position of Colloidal quantum dots by nearly 1 eV Yan B Vogel, Switzerland 1450 - 1505 1834 (O): Lead Halide Perovskites for energy applications: Structural complexity and dynamics revealed by solid state NMR Elisa Carignani, Italy 1505 - 1520 2037 (O): Electron-phonon coupling in two-dimensional lead halide perovskites Tufan Ghosh, India 1520 - 1535 2125 (O): Nuclear quadrupole resonance for observing halides and their photoinduced segregation in mixed halide perovskites Silvia Borsacchi, Italy	15CS2-MR407 Human Health & Well Being Chairperson: Awis Sukarni Mohmad Sabere, Malaysia 1400 - 1415 2254 (O): Socio-environmental determinants of <i>Legionella pneumophila</i> in diverse water systems: Analytical insights and risk implications Atheesha Singh, South Africa 1415 - 1430 2448 (O): Unique physicochemical and antioxidant properties differentiate stingless bee honey produced in acacia forest from peninsular and Borneo Malaysia Norhasnida Zawawi, Malaysia 1430 - 1445 2267 (O): The protective potential of curcumin analogues (PGV-5, HGV-5, THP-GV-5, and THHGV-5) on UVA-induced human dermal fibroblasts Rumiya, Indonesia 1445 - 1500 2579 (O): 3D printed biosponge adsorbers for capturing toxic chemotherapy drugs to reduce chemotherapy toxicities Hee Jeung Oh, United States 1500 - 1515 1459 (O): Ticks repellents: A perspective for the creation of a control release materials Sergey Andreev, Russian Federation	15CS2-MR408 TS10 Thematic Session - RSC Forum on Open Knowledge Dissemination Chairperson: Sara Bosshart, United Kindgom Speakers: Noorsaadah Abdul Rahman, Malaysia Arbain Arbain, Indonesia Mochammad Tanzil Multazam, Indonesia Karen Wilson, Australia Christine Luscombe, Japan 1400 - 1410 Introduction to the workshop 1410 - 1510 Regional Experiences with Open Access 1510 - 1550 Sharing Challenges and Co-Creating Solutions 1550 - 1600 Summary & Wrap-up	15CS2-MR409 TS4 Thematic Session - Workshop on Chemical Safety and Security <i>By Invitation Only</i>	15CS2-MR410 SDG2: Zero Hunger Advance Technologies in Food and Agriculture Chairperson: Nor Khaizura Mahmud Ab Rashid, Malaysia 1400 - 1430 2228 (K): Quantum dots-based biosensor for food pathogen detection Jaafar Abdullah, Malaysia 1430 - 1445 1742 (O): Development and optimization of an electrochemical biosensor for sensitive detection of zearelenone in food safety applications Nur Azura Mohd Said, Malaysia 1445 - 1500 2017 (O): A DNA biosensor system for detecting a biocide resistant pest (<i>T. mundella</i>) in oil palm plantations Farah Asilah Azri, Malaysia 1500 - 1515 2022 (O): An electrochemical detection of fenvalerate using aptamer with graphene-acrylate copolymer composite modified electrode Nurul Hidayah Binti Ahmad Puat Nurul Hidayah, Malaysia 1515 - 1530 1937 (O): Utilization of nanocellulose-based nanocomposites from pineapple leaves for sustainable wastewater treatment in agriculture Azima Azmi, Malaysia

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Time	MR401	MR402	MR403	MR404	MR405	MR406	MR407	MR408	MR409	MR410
1400 - 1600	1550 - 1605 2542 (O): Metal free visible light induced construction of multi nitrogen heterocycle compounds from azobenzene with diboron ester Li Dang, China	1520 - 1535 2358 (O): FTIR-chemometric monitoring of biobased polyester synthesis use for personal care applications Emily Majanun, Malaysia 1535 - 1550 2569 (O): Interfacial engineering toward stable Ah-level aqueous zinc batteries Lina Chen, China	1550 - 1605 2475 (O): Synthesis, and biological evaluation of benzimidazole-based Cu(II) complexes: Spectral, DFT, and docking insights Muhamad Azwan Hamali, Malaysia 1605 - 1620 1767 (O): Synthesis and investigation of chemomechanical gels driven by the Belousov-Zhabotinsky reaction: Insights into ligand influence Volha Lahunova, Russian Federation		1530 - 1550 1690 (O): Turkish translation of multi-language dictionary of terms in chemistry education Mustafa Sozibilir, Turkiye	1535 - 1550 1071 (O): Redefining proton affinity for heteronuclear molecular species: Quantum chemical insights Emmanuel Etim, Nigeria	1515 - 1530 2652 (O): The potential trillion-ringgit economy treasure of palm oil vitamin E industry Nam Fong Hew, Malaysia			1530 - 1545 564 (O): Maximizing single-cell protein yield from vegetable waste via optimized liquid-state fermentation: A step towards circular bioeconomy Kashif Rasool, Pakistan 1545 - 1600 2189 (O): Ultra-sensitive nanotechnology-enabled aptasensor for Kanamycin detection in dairy products Amal Rabti, Tunisia 1600 - 1615 2777 (O): Future food: Valuable composition of Indian borage leaves (<i>Plectranthus amboinicus</i>) and neem leaves (<i>Azadiractha indica</i>) using solvent extraction Raseetha Vani Siva Manikam, Malaysia
1600 - 1630	PM Tea Break									
Time	MR401	MR403	MR404	MR405	MR406	MR408	MR409	MR410		
1630 - 1800	15CS3-MR401 Green Chemistry S11 Symposium - IUPAC Contribution and Green Chemistry Contribution Innovations towards Sustainable Development Chairperson: Zhimin Liu, China 1630 - 1635 Introduction to the Symposium S11 1635 - 1705 2208 (K): Direct and indirect hotspots as priorities for green chemistry research Philip Jessop, Canada	15CS3-MR403 Inorganic & Bioinorganic Chairperson: Sumiyah Sabar, Malaysia 1630 - 1700 2599 (K): Plasmonic and magnetic nanoparticles for biomedical applications Thanh Thi Kim Nguyen, United Kingdom 1700 - 1715 2391 (O): Ruthenium catalysts for hydrogen production from formic acid: Catalytic evaluation and mechanistic insights Cassiem Joseph, South Africa	15CS3-MR404 Organic & Biomolecular S03 Symposium - Diradical Chemistry Chairperson: Christoph Lambert, Germany 1630 - 1650 664 (I): Open-shell electronic structures and properties of π -stacks of diradicaloids Ryohei Kishi, Japan 1650 - 1710 665 (I): Theoretical study of electron conductivity of open-shell system and its application Yasutaka Kitagawa, Japan	15CS3-MR405 Education & Public Understanding S21 Symposium - CTI Workshop Chairperson: Mustafa Sozibilir, Türkiye 1630 - 1730 1849 (I): Workshop: How to publish in Chemistry Teacher International Mustafa Sozibilir, Türkiye	15CS3-MR406 TS11 Thematic Session - IYCN/ MYCN Young Chemist Programme IUPAC-Young Scientists Safety Training Workshop Chairperson: Lovish Raheja, India Khor Sook Mei, Malaysia 1630 - 1645 Introduction Gracia María Romero Saravia, Honduras Bipul Behari Saha, India Tien Thuy Quach, United Kingdom 1645 - 1705 Safety in Chemistry Bipul Behari Saha, India	15CS3-MR408 TS9 Thematic Session - ACS on Campus Chairperson: Lee Hooi Ling, Malaysia 1630 - 1715 Demystifying Scientific Collaboration Hooi Ling Lee, Malaysia 1715 - 1800 Mentor-Mentee Relationships Mohd Bakri Bakar, Malaysia	15CS3-MR409 TS4 Thematic Session - Workshop on Chemical Safety and Security <i>By Invitation Only</i>	15CS3-MR410 SDG2: Zero Hunger Food Chemistry and Analysis Chairperson: Nur Azura Mohd Said, Malaysia 1630 - 1645 2489 (O): Effect of supercritical fluid temperature on the physicochemical properties of <i>Sacha inchi</i> (<i>Plukenetia volubilis</i>) seed oil Siti Suhara Ramli, Malaysia		

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Time	MR401	MR403	MR404	MR405	MR406	MR408	MR409	MR410
1630 - 1800	1705 - 1725 1586 (I): The global conversation on sustainability: An IUPAC/IYCN joint effort towards a more sustainable future through chemistry Joao Borges, Portugal 1725 - 1745 1851 (I): Towards greener chemistry: Developing benign approaches in organic synthesis Pranjal Kumar Baruah, India 1745 - 1800 968 (O): Direct dissolution of Lignocellulosic biomass by malonic acid-DBU for high-performance all-biomass films Lifeng Yan, China	1715 - 1730 2467 (O): Ionic functionalized Co(II) salicylaldiminato complexes as recyclable catalysts for the coupling of CO₂ and propylene oxide Juanita Van Wyk, South Africa 1730 - 1745 1960 (O): Development of new recyclable catalysts for simple organic transformations Muhammad Dabai Bala, Nigeria 1745 - 1800 1286 (O): Metal amino-bis (phenolate) complexes as catalysts for copolymerization of carbon dioxide, epoxides and anhydrides Christopher Kozak, Canada	1710 - 1730 661 (I): A plumba triplet carbene and photophysics with carbene-based diradicaloids Dominik Munz, Germany 1730 - 1750 1777 (I): Low-coordinated germanium in the ring: Unusual structures and reactivity Yoshiyuki Mizuhata, Japan		1705 - 1725 Safety from the perspective of a Young Chemists process safety across the chemical engineering curriculum Ayush Agarwal, Switzerland 1725 - 1745 IUPAC COCI Safety Training Program (STP) Gracia María Romero Saravia, Honduras 1745 - 1800 Group Discussion and Perspectives Group Picture			1645 - 1700 1785 (O): Biofilm formation of multidrug-resistant <i>Staphylococcus aureus</i> on stainless steel surfaces: Influence of temperature and time, and the efficacy of commercial disinfectants Nor Khaizura Mahmud Ab Rashid, Malaysia 1700 - 1715 1943 (O): Intrinsic quality of stingless bee honeys of Sarawak Margaret Abat, Malaysia 1715 - 1730 2247 (O): Assessment of the nutritional content in locally grown vegetables and their significance in public health Waziha Farha, Bangladesh 1730 - 1745 2163 (O): Oils extracted from insect biomass for food applications Luis Branco, Portugal
1800	End of 15th July 2025 - Level 4 Programme							



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16th July 2025, Wednesday – Level 3

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Time	CH1&2						
0800 - 0845	16CS1A-CH1&2 IUPAC-SOONG PRIZE FOR SUSTAINABLE CHEMISTRY LECTURE Reticular Chemistry, Climate, AI Prof Omar Yaghi University of California, United States Chairperson: Ehud Keinan, United States						
Time	CH1&2	CH3	MR302	MR303	MR304	MR305	MR306
0900 - 1030	16CS1-CH1&2 Polymer & Materials S22 Symposium - Symposium on Biopolymers and Sustainability Chairperson: Azhar Ariffin, Malaysia 0900 - 0920 2069 (I): Valorization of Black Soldier Fly (BSF) waste into chitosan-based biopolymers Luisa Martins, Portugal 0920 - 0940 1995 (I): Modification of starch bio-nanocomposite for active and intelligent food packaging Ishak Ahmad, Malaysia 0940 - 1000 2370 (I): Self-assembling polymeric biomaterials for controlled drug delivery and regenerative medicine Joao Borges, Portugal 1000 - 1030 1840 (K): Zero-waste close-loop biorefinery system for food and yard waste valorization Carol Sze Ki Lin, Hong Kong, China	0900 - 1100 Council Election	16CS1-MR302 Analytical & Forensic Chairperson: Nurfaizah Abu Tahrim, Malaysia 0900 - 0915 1628 (O): Raman spectroscopy: A powerful tool in identification of drugs for high workload laboratory Harlisa Haidhir Harminder, Malaysia 0915 - 0930 1530 (O): DNA extraction from skeletal human remains using magnetic bead-based extraction and organic extraction Mahzan Bin Md Tab, Malaysia 0930 - 0945 1499 (O): Characterisation of X-chromosomal short tandem repeat of Chinese peranakan in Malacca, Malaysia Muhamad Sufiyan Azah, Malaysia 0945 - 1000 1461 (O): Validation of differential extraction method for sperm-containing samples via QIAGEN, QIAAsymphony SP Platform Zulhimi Husni, Malaysia 1000 - 1015 1991 (O): Enhancing forensic analysis: The role of NIR technology in illicit drug analysis in narcotics division, Kimia Malaysia Saravana Kumar Jayaram, Malaysia	16CS1-MR303 Environmental Chairperson: Alfred Tang Wai Kit, Malaysia 0900 - 0930 1738 (K): Environment-friendly nanocellulose: Catalysis, surface emulsifier applications Hwei Voon Lee, Malaysia 0930 - 0945 567 (O): Determination of pesticide residues in beans using QuEChERS technique coupled to gas chromatography-mass spectrometry: Multivariate optimization of CEN and AOAC methods Lukman Abdur'uf, Nigeria 0945 - 1000 364 (O): Synthesis, characterization, and applications of molecularly imprinted polymers for selective extraction of antiretroviral drugs in water: Steps towards attaining green synthetic routes Lawrence Madikizela, South Africa 1000 - 1015 2100 (O): Electrochemical characterization of coconut shell derived activated carbon for supercapacitor application Armila Rajbhandari Nyachhyon, Nepal 1015 - 1030 2067 (O): Bio-adsorbent toward potential remediation of highly polluted Bagmati river water, Kathmandu, Nepal Mandira Adhikari, Nepal	16CS1-MR304 Environmental S17 Symposium - Carbon-Neutral Chemical Production Via Advanced Nanocatalysis Chairperson: Nabilah Saafie, Malaysia 0900 - 0930 1959 (K): Photocatalysis studied at single-particle level Zhaoke Zheng, China 0930 - 0950 1710 (I): Self-supported bifunctional Zn₂Co₂ catalyst materials for alkaline water splitting Kee Shyuan Loh, Malaysia 0950 - 1010 1990 (I): Carbon-neutral production of carbon nanotubes from plastic and biomass waste via catalyst design Wen Da Oh, Malaysia 1010 - 1025 1708 (O): Tailoring electrolyte formulations for green ammonia electroproduction from nitrogenous species Sara Garcia Ballesteros, Italy	16CS1-MR305 Environmental S17 Symposium - Carbon-Neutral Chemical Production Via Advanced Nanocatalysis Chairperson: Haw Choon Yian, Malaysia Ong Wee-Jun, Malaysia 0900 - 0930 2377 (K): Defective layered double hydroxide based nanostructured photocatalysts for nitrogen fixation Tierui Zhang, China 0930 - 1000 2345 (K): Carrier and mass transport at the electrolyte interface Zheng Liu, Singapore 1000 - 1020 2047 (I): Engineering the electronic structure of Ru-based nanocatalysts for efficient photo-thermal catalytic CO₂ conversion Fenglong Wang, China	16CS1-MR306 Polymer & Materials S18 Symposium - IKM-MRB Symposium on Elastomers and Latexes (IMSEL 2025) Chairperson: Jinrong Wu, China 0900 - 0915 2367 (O): Analysis on treated recovered carbon black (rCB) filler and their performance in rubber compounds for sustainable product applications Teku Zakwan Zaeimoedin, Malaysia 0915 - 0930 2242 (O): A comparative study of analytical methods or Phthalate determination in toys and childcare products Zatil Afifah Omar, Malaysia 0930 - 0945 2705 (O): Journal of rubber research special issue: "Advancing sustainable natural and synthetic rubber or latexes technologies for tomorrow" Veronica Charlotte, Malaysia 0945 - 1015 1527 (K): Quality assurance in latex products manufacturing: What is needed for further improvement Aik Hwee Eng, Malaysia

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Time	CH1&2	CH3	MR302	MR303	MR304	MR305	MR306
0900 - 1030				1030 - 1045 2477 (O): Amine functionalized graphene oxide decorated with ZnO-WO ₃ nanocomposites for remediation of organic dye from wastewater Mohammad Awlad Hossain, Bangladesh 1045 - 1100 1875 (O): Nile Tilapia reveal microplastic contamination in the River Nile in Khartoum, Sudan Dalia Saad, South Africa			
1030 - 1100	AM Tea Break						
Time	CH1&2						
1100 - 1150	PLENARY 5 Pushing Boundaries: Innovations in Organometallic Complexes and Catalysts for Advanced Chemical Transformations Prof Zhaomin Hou RIKEN Center for Sustainable Resource Science, Japan Chairperson: Juan Joon Ching, Malaysia						
1150 - 1240	PLENARY 6 Rethinking Fluorine Chemistry with Global Challenges in Mind Prof Veronique Gouverneur University of Oxford, United Kingdom Chairperson: Phang Sook Wai, Malaysia						
Time	CH1&2	CH3	MR302	MR303	MR304	MR305	MR306
1240 - 1400	Lunch						
1400 - 1600	16CS2-CH1&2 Polymer & Materials S22 Symposium - Symposium on Biopolymers and Sustainability Chairperson: Siti Nurul Ain Md Jamil, Malaysia 1400 - 1415 2468 (O): Rapid UV led photopolymerization of ionic conductive agarose-based hydrogels for electronic skin applications Muhammad Aqil Mohd Farizal, Malaysia	Council Meeting	16CS2-MR302 Analytical & Forensic Chairperson: Sharmilah Kuppusami, Malaysia 1400 - 1430 1533 (K): Multidimensional gas chromatography-mass spectrometry for the elucidation of combustion related organic air pollutants Patricia Forbes, South Africa 1430 - 1500 1122 (K): Plasmonic single-molecule affinity detection at 10 zeptomolar Luisa Torsi, Italy	16CS2-MR303 Environmental S07 Symposium - Environmental Occurrence and Management of PFAS Chairperson: Rai Kookana, Australia Melanie Kah, New Zealand 1400 - 1430 1338 (K): Finding alternatives to the many uses of PFAS Ian Cousins, Sweden 1430 - 1450 2046 (I): Harnessing mechanochemistry to solve real-world PFAS challenges Kapish Gobindlal, New Zealand	16CS2-MR304 Environmental S17 Symposium - Carbon-Neutral Chemical Production Via Advanced Nanocatalysis Chairperson: Haw Choon Yian, Malaysia Ong Wee-Jun, Malaysia 1400 - 1430 2339 (K): In-situ Raman probing electrochemical reactions Jian Feng Li, China	16CS2-MR305 Environmental S17 Symposium - Carbon-Neutral Chemical Production Via Advanced Nanocatalysis Chairperson: Nabilah Saafie, Malaysia Ong Wee-Jun, Malaysia 1400 - 1430 2432 (K): Precision catalysis towards carbon neutrality Gang Fu, China	16CS2-MR306 Polymer & Materials Chairperson: Lee Hwei Voon, Malaysia 1400 - 1415 1700 (O): Tannic acid-grafted polylactic acid films: A nonmigrating antibacterial packaging for chilled fresh meat Linze Liu, China 1415 - 1430 1865 (O): Solid supported imidazolium based on naturally occurring biopolymer, sporopollenin Kumuthini Chandrasekaram, Malaysia

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Time	CH1&2	CH3	MR302	MR303	MR304	MR305	MR306
1400 - 1600	1415 - 1430 2436 (O): Dietary Poly-β-Hydroxybutyrate (PHB) granule improved on growth and resistance against acute hepatopancreatic necrosis disease pathogens in white-leg shrimp (<i>Litopenaeus vannamei</i>) Nur Liyana Binti Ismail, Malaysia 1430 - 1445 1379 (O): Functionalized bio-copolymers for nutrient preservation of high protein food Jiahui Du, China 1445 - 1500 1354 (O): Chitosan from extracted chitin of <i>Sardinella lemuru</i> (tamban) fish scales Sheeva Yahcob Saddalani, Philippines 1500 - 1515 1748 (O): Integrated potassium hydroxide-based biorefinery for rice straw: Pulp production, lignin recovery, and spent liquor utilization in agriculture Md Sarwar Jahan, Bangladesh 1515 - 1535 1596 (I): Synthesis of superabsorbent hydrogel-biochar composites as nitrogenous controlled-release fertilizers Cindy Tan, Malaysia 1535 - 1555 1029 (I): Structures and properties of catechol-modified hydrogels Daewon Sohn, Korea, Rep.	Council Meeting	1500 - 1515 1238 (O): Authentication analysis of agarwood oil by GC-MS using chemometric approach Wan Farah Nasuha Binti Wan Iskandar, Malaysia 1515 - 1530 2177 (O): Elucidating the impact of feed sources and adulteration on stingless bee honey quality and toxicity Norhasnida Zawawi, Malaysia 1530 - 1545 1491 (O): An alternative workflow in identification of mitragynine in kratom samples by RADIAN ASAP Direct Mass Detector Nor Fatimah Sameon, Malaysia 1545 - 1600 1025 (O): Advanced differentiation of bovine and porcine in gelatine for halal compliance using LC-MS/MS: A complementary approach to DNA-based methods Fathiah Ahmad Zubaidi, Malaysia 1600 - 1615 2763 (O): Fluorescent chemosensors for the selective detection of organic molecules Balamurugan Rathinam, Taiwan, China	1450 - 1505 2240 (I): Growing evidence of human and environmental exposure to PFAS in Asia Rai Kookana, Australia 1505 - 1520 1647 (O): Occurrence of PFAS in New Zealand Shailja Data, New Zealand 1520 - 1535 2149 (O): Microbial transformation of perfluorobutanesulfonic and perfluorohexanesulfonic acid Vladimir Beskoski, Serbia 1535 - 1550 2090 (O): Foam fractionation for remediation of PFAS: Effect of physicochemical properties Reza Foudazi, United States 1550 - 1605 2409 (O): Unveiling the hidden threat of PFAS contamination with high-resolution mass spectrometry Hun Teong Cheah, Singapore	1430 - 1450 2288 (I): Coupled photoelectrochemical H₂ production and synthesis of valuable chemicals Fatwa Firdaus Abdi, Hong Kong, China 1450 - 1510 1335 (I): In situ/operando Raman spectroscopy studies of hydrogen fuel cell reactions Jin Chao Dong, China 1510 - 1530 2274 (I): Green electrochemical engineering for a sustainable future Fengwang Li, Australia 1530 - 1550 2667 (I): Multi-site synergistic catalysis for directed conversion Han Qing, China 1550 - 1605 2537 (O): Electrocatalytic CO₂ reduction using lanthanoid-doped catalysts Weiqi Liu, China	1430 - 1500 2608 (K): Carbon capture and utilization for sustainable valuable products [Cyclic carbonates, carbon neutral fuel - jet fuel (SAF), methanol] Mohd Rafie Johan, Malaysia 1500 - 1520 2615 (I): Rational design of electrocatalysts for efficient oxygen evolution toward carbon-neutral hydrogen production Hyeyoung Shin, Korea Rep. 1520 - 1535 1980 (O): p-Methoxy substituents in cobalt phthalocyanine for efficient electrochemical CO₂ reduction Mengxin Liu, Australia 1535 - 1550 2538 (O): Research on the electrocatalytic mechanism of nitrogen/oxygen-related species on carbon-based material interface Peiyao Bai, China	1430 - 1445 1566 (O): 3D-printable alginate and graphitic carbon nitride hydrogel for efficient solar photocatalytic water splitting Voravee Hoven, Thailand 1445 - 1500 1963 (O): Recycling post-consumer polypropylene utensils into 3D printing filaments for fused filament fabrication Ming Yeng Chan, Malaysia 1500 - 1515 2415 (O): Epoxy-amine vitrimers towards enhanced recyclability via dual-chemistry systems William Dyer, United Kingdom 1515 - 1530 2483 (O): Hydrothermal synthesis of cerium oxide nanoparticles and their photodegradation assessment using methylene blue dye Muhammad Zamir Hossain, Bangladesh 1530 - 1545 2364 (O): Circularly polarized luminescence from Achiral lanthanide complexes via biomimetic replication of scarab beetle elytra Nikita Madhukar, Japan 1545 - 1605 2260 (I): Designed and Synthesis of Ortho-Substituted Carbazoles twister Donor-Acceptor (D-A) molecules with small ΔE_{ST} as potential TADF molecules Azhar Ariffin, Malaysia 1605 - 1620 1565 (O): Design and fabrication of high-barrier PBAT films based on self-driven layered design Jing Yuan, China
1600 - 1630	PM Tea Break						

16th July 2025, Wednesday – Level 3

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Time	CH1&2	CH3	MR302	MR303	MR304
1630 - 1800	16CS3-CH1&2 Polymer & Materials S22 Symposium - Symposium on Biopolymers and Sustainability Chairperson: Cindy Tan, Malaysia 1630 - 1645 1650 (O): Sorption kinetics and diffusion behaviour of post-characterized, biomodified waste PET (RIC-1) bottles composites Onyinyechi Aliene, Nigeria 1645 - 1705 2217 (I): Enhancing the performance of poly(lactic acid)-clay nanocomposites: Montmorillonite modification for sustainability Wan Md Zin Wan Yunus, Malaysia 1705 - 1725 2375 (I): Amine-modified hypercrosslinked poly(acrylonitrile-co-divinylbenzene-co-vinylbenzyl chloride) for enhanced adsorption of metronidazole from aqueous solution Siti Nurul Ain Md Jamil, Malaysia 1725 - 1745 2444 (I): Biowaste-derived composite membranes for oil/water separation: Modification, fabrication, characterization, and performance evaluation Rizafizah Othaman, Malaysia	Council Meeting	16CS3-MR302 Analytical & Forensic Chairperson: Yew Choong Hooi, Malaysia 1630 - 1645 1510 (O): Comprehensive investigation of graphene oxide foam and graphene oxide functionalized with β-cyclodextrins for the preconcentration and determination of uranyl ions Karina Kocot, Poland 1645 - 1700 1419 (O): Application of carbon nanomaterials in ultra-trace analysis using total-reflection x-ray fluorescence spectrometry Rafal Sitko, Poland 1700 - 1715 1507 (O): AI-guided smart chromatography system Boxuan Zhao, China 1715 - 1730 2392 (O): Determination of hexamethylenetetramine in strongly acidic industrial pickling solutions by capillary zone electrophoresis Cristina Botas, Spain 1730 - 1745 1994 (O): Separation and quantitation of saccharide compounds in personal care products using Liquid Chromatography Refractive Index Detector (LC-RID) Chung Lee Yee, Malaysia 1745 - 1800 684 (O): Radial flow stream splitting for improved separation and workflow for a greener approach to astaxanthin analysis Karin Luize Mazur, Australia	16CS3-MR303 Environmental S20 Symposium - Chemical of Emerging Concern (CECs) in Polar Environments Chairperson: Roland Kallernborn, Norway 1630 - 1650 1205 (I): The polar regions as sentinel regions for investigating climate organic pollutant interactions Roland Kallernborn, Norway 1650 - 1710 2589 (I): Monitoring of contaminants of emerging concern in the sediments of Arctic fjord: Activities of Mahatma Gandhi University, India Charuvila T Aravindakumar, India 1710 - 1730 1958 (I): Concurrent appearance of latitudinal and longitudinal distributions and fractionations of alpha- and beta-HCHs in Chinese rural surface soil Yifan Li, China 1730 - 1750 2316 (I): Antarctica's chemical voyagers: Building a framework for policy advice Susan Bengtson Nash, Australia 1750 - 1810 2515 (I): Shifts in pesticides contamination in Arctic fjords: A pre- and post-COVID assesment Anu Gopinath, India	16CS3-MR304 Environmental S17 Symposium - Carbon-Neutral Chemical Production Via Advanced Nanocatalysis Chairperson: Nabilah Saafie, Malaysia Haw Choon Yian, Malaysia 1630 - 1650 2457 (I): Ammonia synthesis mechanism over ruthenium-based catalysts under high-pressure reaction conditions Shuai Wang, China 1650 - 1710 2216 (I) Engineered catalysts for green hydrogen peroxide production Xiangkang Zeng, Australia 1710 - 1730 2517 (I): Dehydrogenative and hydrogenative catalysis for the synthesis and recycling of polymers Amit Kumar, United Kingdom 1730 - 1750 2523 (I): Preparation of furan platform molecules from (hemi)cellulose and their downstream conversion Xianhai Zeng, China 1750 - 1805 2266 (O): Catalyst shaping formulation for catalytic reactions in fixed bed reactor Nik Muhammad Syafiq Nik Mohd Adnan, Malaysia
1900 - 2200	CONGRESS GALA DINNER @ Grand Ballroom, Basement II, Shangri-La Hotel Kuala Lumpur				



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Time	MR401	MR402	MR403	MR404	MR405	MR406	MR407	MR408	MR409	MR410
0900 - 1030	16CS1-MR401 Green Chemistry Chairperson: Javier Pérez-Ramírez, Switzerland 0900 - 0930 2043 (K): Green & sustainable chemistry for maximising agricultural productivity Antonio Patti, Australia 0930 - 0945 2023 (O): Artificial neural network modelling to optimize biodiesel yield from low grade cooking oil using calcium based supported alumina Salmiah Jamal Mat Rosid, Malaysia 0945 - 1000 1302 (O): Pretreatment of lignocellulose waste using Deep Eutectic Solvents (DESS) for biofuels and chemicals production state-of-the-art, prospects, and challenges Weidong Lu, China 1000 - 1015 1576 (O): Upcycling discarded cotton clothing into lightweight materials using cellulose nanofibrils Maria Ximena Ruiz Caldas, Sweden 1015 - 1030 1977 (O): Green synthesis of zinc oxide nanoparticles using <i>Camellia sinensis</i> extract: An eco-friendly antifungal strategy against <i>Fusarium equiseti</i> in Nepalese tomato cultivation Bimala Subba, Nepal	16CS1-MR402 Analytical & Forensic Agilent Session Chairperson: Jenny Lee, Malaysia 0900 - 0930 2753 (K): Shaping the future of analytical science: Precision, speed, and sustainability Chee Sian Gan, Singapore 0930 - 0945 2754 (O): Tracking forever chemicals using LCMS and GCMS: A complementary approach for comprehensive detection Poh Wei Tan, Malaysia	16CS1-MR403 Inorganic & Bioinorganic Chairperson: Yang Farina Abdul Aziz, Malaysia 0900 - 0930 2231 (K): Visible-emitting rare earth complexes for sensing and solar energy conversion Lidia Armelao, Italy 0930 - 0945 2450 (O): Dioxxygen activation by palladium(II) radicals Ernesto De Jesus, Spain 0945 - 1000 2497 (O): Quantifying the electronic properties of n-heterocyclic carbene ligands using selenium NMR spectroscopy Mohamad Shazwan Shah Jamil, Malaysia 1000 - 1015 1451 (O): Surface organometallic chemistry for single-atom catalysis Pengxin Liu, China 1015 - 1030 1332 (O): Development of gold-based organometallic compounds as potential anticancer agents Katleho Setlaba, South Africa	16CS1-MR404 Organic & Biomolecular S03 Symposium - Diradical Chemistry Chairperson: Dominik Munz, Germany 0900 - 0920 674 (I): Photoreactivity and photodynamic behaviour of polycyclic azides Anna Gudmundsdottir, United States 0920 - 0940 366 (I): Is π-single bonding ($c-\pi-c$) possible? A challenge in organic chemistry Manabu Abe, Japan 0940 - 1000 565 (I): Controlling multiple selectivity in radical-radical combinations Chao Zheng, China 1000 - 1020 669 (I): Diradicaloid Σ- and Π-bonds Takashi Kubo, Japan 1020 - 1040 678 (I): Stable and isolable diradicals with Oligo(9,10-anthrylene)s Yusuke Ishigaki, Japan	16CS1-MR405 TS3 Thematic Session - Green Chemistry in Education Chairperson: Mageswary Karpudewan, Malaysia 0900 - 0930 2060 (K): Green chemistry in education: A model for sustainable chemistry teacher training and curriculum innovation Mageswary Karpudewan, Malaysia 0930 - 0945 1747 (O): The effectiveness of the Organic Chemistry Metacognitive Instruction (OCHEM-MI) framework in enhancing matriculation students' mechanistic reasoning and self-efficacy beliefs in chemistry Byron Mc Michael Kadum, Malaysia 0945 - 1000 1752 (O): The effectiveness of green sustainable chemistry infused machine learning on s-TPACK, circular economy and system thinking of IPG pre-service teachers Deva Nanthini Sinniah, Malaysia 1000 - 1015 2494 (O): The differentiated instruction-green chemistry approach: An alternative approach reflecting on inclusivity for international general certificate secondary education chemistry teachers. Pasheena Ramathas, Malaysia	16CS1-MR406 Physical & Biophysical Chairperson: Saiful Arifin Shafiee, Malaysia 0900 - 0915 2123 (O): Insights into the DNA-binding mechanism of Cren7: A resilient protein from harsh environments Soumit Sankar Mandal, India 0915 - 0930 2459 (O): Design and synthesis of photo-controllable probes for amyotrophic lateral sclerosis studies Jen Tse Huang, Taiwan, China 0930 - 0945 1799 (O): Nuclease-Induced Stepwise Photodrooping (NISF) to precisely investigate single-stranded DNA degradation behaviors of exonucleases and endonucleases Hsiufang Fan, Taiwan, China 0945 - 1000 1259 (O): The interplay of lipid bilayer forces and elasticity. The bilayer response to small molecule solvation Adriana Sturcova, Czechia 1000 - 1015 2564(O): Ultrafast dynamics of damaged DNA repair by a dual function cryptochrome Dongping Zhong, China	16CS1-MR407 TS1 Thematic Session - Artificial Intelligence in Chemistry Chairperson: Sim Siong Fong, Malaysia 0900 - 0930 2661 (K): Integration of AI tools into chemistry research Ananikov Valentine, Russian Federation 0930 - 0950 1493 (I): Automated machine learning workflows and their applications to low-data chemical problems Juan Vicente Alegre Requena, Spain 0950 - 1010 1787 (I): Applications of Self-Organising Maps (SOMS) in chemistry: From classification to regression Kanet Wongravee, Thailand 1010 - 1030 1349 (I): Artificial neural networks for the analysis of microscopy data Anna Nartova, Russian Federation	16CS1-MR408 TS7 Thematic Session - Professional and Responsible Practices in Chemistry Including Responsible Care Symposium on Chemistry as a Profession in Malaysia Chairperson: Chang Hon Fong, Malaysia 0900 - 0905 Welcome Remarks & Introduction Chang Hon Fong, Malaysia 0905 - 0915 The Role of IKM in Promoting and Safeguarding the Chemistry Profession Chang Hon Fong, Malaysia 0915 - 0925 Careers in the Chemical Industry Muhtar Hashim, Malaysia 0925 - 0935 Chemists in Government Service – their vital contributions and impacts Siti Nur Nazathul Shima Hashim, Malaysia 0935 - 0945 Research & Development Opportunities for Chemists in Industry and Academic Institutions Fatimah Salim, Malaysia 0945 - 1015 Panel Discussion & Forum Dialogue 1015 - 1030 Audience Q&A and Closing Remarks	16CS1-MR409 TS4 Thematic Session - Symposium on Chemical Safety and Security Chairperson: Lee Hooi Ling, Malaysia 0900 - 0910 Symposium Welcome 0910 - 1000 2787 (K): Strengthening chemical security: From policy to practice Christine Straut Langinais, United States 1000 - 1015 1734 (O): An application of contemplative education for promoting safety culture in chemical laboratories Wisa Supanpaiboon, Thailand 1015 - 1030 1860 (O): Countering diversion of pharmaceutical based agents or compounds along the chemical supply chain for the improvement of chemical security Abul Basher Miah, Bangladesh	16CS1-MR410 SDG13: Climate Action Chairperson: Jeyanny Vijayanathan, Malaysia 0900 - 0930 1805 (K): Rising to challenge: Harnessing chemistry for climate action and sustainable future Elizabeth Philip, Malaysia 0930 - 0945 1523 (O): Sustainable waste management with online self-regulated learning among primary school students Nilavathi Balasundram, Malaysia 0945 - 1000 2441 (O): Sustainable biopolymer production: Transforming oil palm waste into PEG-co-FDCA Pushpamalar Janarthanan, Malaysia 1000 - 1015 1790 (O): Enhancing gas separation performance in PSF/ZTC mixed matrix membranes through heat treatment Wijiyanti Rika, Indonesia 1015 - 1035 1988 (I): Atmospheric chemistry prediction initiatives in Malaysia Maggie Chel Gee Ooi, Malaysia

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Time	MR401	MR402	MR403	MR404	MR405	MR406	MR407	MR408	MR409	MR410
0900 - 1030					1015 - 1030 1760 (O): Implementation of a GSC-robotic approach to enhance Energy Literacy (EL), Computational Thinking (CT) and Sustainability Competence (SC) of secondary school students Rennukka Mathava, Malaysia	1015 - 1030 1563 (O): Quadrupolar-driven donor-acceptor π -systems: Tuning the order-dependent properties of optoelectronic biomolecular coassemblies Sheng Wei Tang, United States				
1030 - 1100	AM Tea Break									
1100 - 1240	Plenary Session at CH1&2									
1240 - 1400	Lunch									
1400 - 1600	16CS2-MR401 Green Chemistry S11 Symposium - IUPAC Contribution and Green Chemistry Contribution Innovations towards Sustainable Development Chairperson: Jane Wissinger, United States 1400 - 1405 Introduction to the Symposium S11 1405 - 1435 1190 (K): Advancing green chemistry through the eco-friendly synthesis and applications of functional materials Aurelia Sorina Visa, Romania 1435 - 1455 1909 (I): Green oxygenation mediated by geminal-diol type species Haoran Li, China	16CS2-MR402 TS6 Thematic Session - Malaysian Rubber Board (MRB) Celebrating 100 Years of Excellence in Rubber and Latex Sciences (100YC) Chairperson: Ho Chee Cheong, Malaysia 1400 - 1410 Introduction 1410 - 1420 Photo session 1440 - 1500 Celebrating a century of innovation and partnership: From trees to technologies – 100 years of shaping the global rubber landscape Zairossani Mohd Nor, Malaysia 1500 - 1515 Driving cost competitiveness through energy innovation in glove manufacturing Supramaniam Shanmugam, Malaysia	16CS2-MR403 Inorganic & Bioinorganic Chairperson: Phang Sook Wai, Malaysia 1400 - 1430 1713 (K): Optimising pyrochlore structured functional ceramics: Processing control, phase equilibria, microstructural and electrical properties Kar Ban Tan, Malaysia 1430 - 1445 2676 (O): Zwitterionic stibinidene in redox catalysis Yi Chen Chan, United Kingdom 1445 - 1500 1833 (O): Solar hydrogen production under the Caribbean sun Jorge Colon, Puerto Rico 1500 - 1515 2054 (O): Ni–La perovskites for efficient CO ₂ valorization and indoor air quality improvement Luca Consentino, Italy	16CS2-MR404 Organic & Biomolecular S03 Symposium - Diradical Chemistry Chairperson: Anna Gudmundsdottir, United States Xinping Wang, China 1400 - 1420 694 (I): Lewis acid coupled electron transfer and diradicals Xinping Wang, China 1420 - 1440 676 (I): Controlling the singlet-triplet energy gap of m-Quinodimethane-based polycyclic diradicals Akihiro Shimizu, Japan 1440 - 1500 595 (I): Heterole-fused dibenzo[a,f]phen- talenes: Diradical character controlling bond-shift valence tautomerization Akihito Konishi, Japan	16CS2-MR405 TS3 Thematic Session - Green Chemistry in Education Chairperson: David Laviska, United States 1400 - 1430 1788 (K): Empowering chemistry education: Green chemistry and sustainable development on South and Southeast Asia Supawan Tantayanon, Thailand 1430 - 1450 1844 (I): Beyond the 12 principles: Asking instructors to modernize their curricula David Laviska, United States 1450 - 1505 1822 (O): Assessing student knowledge of green chemistry: Development and evaluation of selected and constructed-response approaches Alexey Leontyev, United States	16CS2-MR406 Cheminformatics Chairperson: Zainab Ngaini, Malaysia 1400 - 1430 2510 (K): Cheminformatics driving sustainable solutions: Integrating molecular modeling and simulations, AI, and quantum computing in healthcare, energy, and environmental sciences Vannajan Sanghiran Lee, Malaysia 1430 - 1445 1520 (O): Rational design of multitarget compounds for Alzheimer disease: A computational and experimental approach Jessica Olinda Valero, Chile	16CS2-MR407 TS1 Thematic Session - Artificial Intelligence in Chemistry Chairperson: Kavirajaa Pandian Sambasevam, Malaysia 1400 - 1430 991 (K): Advanced intelligent synthesis platform empowered by high-precision instrumentation Xuefeng Jiang, China 1430 - 1450 1570 (I): Data-efficient machine learning models for transition metal systems: From ¹⁹⁵ Pt NMR chemical shifts to nanoparticle reactivity Mikhail Polynski, Singapore 1450 - 1510 1381 (I): Computer-aided analysis of liquid dynamics captured by electron microscopy Alexey Kashin, Russian Federation	16CS2-MR408 TS7 Thematic Session - Professional and Responsible Practices in Chemistry Including Responsible Care Responsible Care Practices by Chemical Industries Council of Malaysia (CICM) Chairperson: Paul R Ellis, Malaysia 1400 - 1420 Overview of Responsible Care & Future Direction Jeff Kovacs, United States Paul R Ellis, Malaysia 1420 - 1440 Responsible Care Implementation: Perspective by Institution of Higher Learning Hooi Ling Lee, Malaysia	16CS2-MR409 TS4 Thematic Session - Symposium on Chemical Safety and Security Chairperson: Christine Straut-Langlais, United States 1400 - 1420 2102 (I): Global standards in chemical warfare agent analysis: Insights from OPCW designated laboratories Jakub Michal Milczarek, Netherlands 1420 - 1435 1952 (O): Implementation status of Chemical Safety and Security Management (CSSM) in Malaysia based on OPCW indicative guidelines Hazlina Yon, Malaysia	16CS2-MR410 SDG13: Climate Action Chairperson: Goh Choo Ta, Malaysia 1400 - 1430 2702 (K): Life cycle thinking in chemical stewardship Kok Meng Chan, Malaysia 1430 - 1445 1582 (O): Applying systems thinking and sustainability in high school research: Investigating the medicinal potential of <i>Ficus racemosa</i> leaf galls Chi Thanh Tran, Vietnam 1445 - 1500 2434 (O): Extending wood lifespan using green and advanced chemical preservation technology for sustainable building practices Tumirah Khadiran, Malaysia

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1400 - 1600	1455 - 1515 1857 (I): In situ encapsulation of cationic [2]Catenane in a stable zirconium metal-organic framework in water Shuliang Yang, China 1515 - 1530 2003 (O): Techno-economic analysis of plastic wastes fast pyrolysis to hydrocarbons Georgios Iakovou, Greece 1530 - 1545 1930 (O): New strategies for modified electrode sensors using green deep eutectic solvents and applications Christopher Brett, Portugal 1545 - 1600 2403 (O): Catalysis at the heart of a terpene based biorefinery Steven Bull, United Kingdom	1515 - 1530 The evolution of rubber: Lee rubber's journey with Standard Malaysian Rubber (SMR) Teo Soon Huat, Malaysia 1530 - 1545 Innovating with nature: A researcher's journey in sustainable latex and polymer science Azura A Rashid, Malaysia 1545 - 1600 Quiz 1 IMSEL-JRR Award presentation ceremony	1515 - 1530 2499 (O): Cross-coupling of pyridines via C–O activation: Divergence at the crossroads of single- and two-electron pathways Ting Hsuan Wang, China 1530 - 1545 981 (O): Copper single-atom nanozyme mimicking galactose oxidase with superior catalytic activity and selectivity Eslam Hamed, Egypt, Arab Rep. 1545 - 1600 1117 (O): Investigation of Cu/ZnO catalysts on advanced porous supports for CO₂ to methanol conversion Nor Hafizah Berahim, Malaysia 1600 - 1615 1781 (O): A yolk@shell nanoarchitecture for NiMn@Al₂O₃ catalysts Nurul Asikin Mijan, Malaysia	1500 - 1520 670 (I): Stable polycyclic hydrocarbon radicals and diradicals from a pop strategy Zhe Sun, China 1520 - 1540 662 (I): Molecular carbons with different shapes and sizes Chunyan Chi, Singapore 1540 - 1600 680 (I): Open-shell graphene fragments as synthons of carbon nanostructures Michal Juricek, Switzerland 1600 - 1605 Closing Remark Manabu Abe, Japan	1505 - 1520 1552 (O): Innovation in sustainable depolymerisation: An undergraduate lab's inquiry approach to green chemical polymer recycling Rebecca Jones, United Kingdom 1520 - 1535 1749 (O): Development of DIY bioplastic from food waste as a sustainable alternative to synthetic polymers Nik Norhasrina Nik Din, Malaysia 1535 - 1550 1754 (O): Developing and validating instruments on systems thinking and circular economy for climate change and green chemistry education Pavitra Krishnan, Malaysia 1550 - 1605 1750 (O): Bridging stem and sustainability: The role of green chemistry in primary education Sarimilla Jiwarathnam, Malaysia	1445 - 1500 2136 (O): Smart fuel quality assurance through Fourier Transform Near Infrared (FTNIR) chemometric technology Anita Jefrydin, Malaysia 1500 - 1515 1480 (O): Multimodal AI-driven molecular design of organic redox materials for aqueous redox flow batteries Sohyeon Lee, Korea, Rep. 1515 - 1530 1273 (O): Alzyfinder: A machine-learning-driven platform for ligand-based virtual screening and network pharmacology David Ramirez, Chile 1530 - 1545 1447 (O): Translating organic spectra to molecular structures via chemist-inspired knowledge injection Zhiyuan Yan, China 1545 - 1600 1634 (O): Application of a universal neural network potential for co adsorption on supported nanoparticle catalysts Gerardo Valadez Huerta, Japan	1510 - 1525 2218 (O): Machine learning models for antibody-antigen binding affinity prediction: A feature engineering approach Ruzanna Yahya, Malaysia 1525 - 1540 1878 (O): Constructing a temperature transferable Coarse-Grained model of cis-1,4-polyisoprene with preserved static, dynamic, and mechanical properties aided by machine learning Hongxia Guo, China	1440 - 1500 Responsible Care Implementation: Sharing of Experiences by Indian Chemical Council Pranav Tripathi, India 1500 - 1520 Shaping the Future: Sustainable Products through LCA, Circular Economy, Low Carbon, and Global Standards Letchumi Thannimalay, Malaysia 1520 - 1600 Q&A Session Closing Remarks by CICM	1435 - 1450 1802 (O): Enhancing fume hood safety with automated Local Exhaust Ventilation (LEV) sensors: A case study at the department of chemistry, Malaysia headquarters Aidil Fahmi Shadan, Malaysia 1450 - 1505 1627 (O): Strengthening chemical safety and security management in Malaysia: The capability of the department of chemistry Malaysia Azharuddin Bin Abd Aziz, Malaysia 1505 - 1520 1524 (O): Enhancing compliance to promote a culture of safety in a Philippine research institute Jonah Bondoc, Philippines 1520 - 1535 Poster Session 1 Announcements 1535 - 1600 Panel Session	1500 - 1520 1519 (I): Ultrasound-assisted solvo-hydrothermal synthesis of chitosan-lignin composites for efficient selective oxidation of model lignin compound by synergistic sonophotocatalysis Juan Carlos Colmenares Quintero, Poland 1520 - 1535 993 (O): Synthesis of cellulose triacetate from millet husk cellulose: Comparison of chemical and electrochemical methods Maryam Khadim Mbacke, Senegal 1535 - 1550 2545 (O): Integrated real-time environmental monitoring and morphological characterization of nano-carbon paint for carbon emission reduction in green technology applications Siti Norhuda Abdullah, Malaysia
1600 - 1630	PM Tea Break									

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1630 - 1800	16CS3-MR401 Green Chemistry Chairperson: Aurelia Sorina Visa, Romania 1630 - 1645 1469 (O): Vibrational spectroscopy in PEF-assisted flaxseed protein extraction: Structural characterization and rapid protein content prediction Jervee Punzalan, New Zealand 1645 - 1700 1723 (O): Natural reagents and smart technologies for green and sustainable chemical and pharmaceutical analysis: A case study on iron determination Kanokwan Kiwfo, Thailand 1700 - 1715 1932 (O): Upcycling E-waste into zinc oxide/copper oxide nanocomposites from printed circuit boards for photocatalytic water treatment Sheela Chandren, Malaysia 1715 - 1730 1360 (O): Low-carbon catalytic conversion of biomass and plastics Fang Lu, China 1730 - 1745 1367 (O): Sustainable upcycling of spent LiCoO₂ batteries as a heterogeneous catalyst for biomass valorization Emilia Paone, Italy 1745 - 1800 2157 (O): Study on the multifunctional applications of green synthesized cobalt oxide nanoparticles in photocatalytic dye degradation, antifungal activity, and LPG sensor Sabita Shrestha, Nepal	16CS3-MR402 TS6 Thematic Session - Malaysian Rubber Board (MRB) Celebrating 100 Years of Excellence in Rubber and Latex Sciences (100YC) Chairperson: Ho Chee Cheong, Malaysia 1630 - 1715 Forum: MRB Celebrating 100 Years of Excellence in Rubber and Latex Sciences (100YC) 1715 - 1730 Quiz 2 Montage launching Photo session	16CS3-MR403 Inorganic & Bioinorganic Chairperson: Mohamad Shazwan Shah Jamil, Malaysia 1630 - 1645 2028 (O): Design of multicolor solid-state fluorescence and green phosphorescence of phenylenediamine-based carbon dots Pinyi He, China 1645 - 1700 2594 (O): Zinc(II)-based coordination polymers for chemical sensors and catalysts Haeri Lee, Korea, Rep. 1700 - 1715 2561 (O): New iridium(III) complex bearing with (E)-N-cyano-N-(2,6-difluorobenzyl)-N'-(pyridin-2-yl)formimide ancillary ligand Nurul Husna As Saedah Bain, Malaysia 1715 - 1730 2276 (O): Advancing N-heterocyclic carbene complexes: Synthesis, structural insights, and their biological applications in antimicrobial studies Yuen Lin Cheow, Malaysia 1730 - 1745 2750(O): Synthesis and Raman spectroscopy of confined carbyne and graphene nanoribbons Lei Shi, China 1745 - 1800 2447 (O): Copper(II) salphen complex as a promising optical sensor for 3-monochloropropane-1,2-diol (3-MCPD) detection Nurul Huda Abd Karim, Malaysia	16CS3-MR405 TS3 Thematic Session - Green Chemistry in Education Chairperson: Juliana Vidal, United States 1630 - 1650 2180 (I): Promoting a systemic change in chemistry education: Beyond benign and the green chemistry commitment Juliana Vidal, Brazil 1650 - 1705 1962 (O): What chemistry teachers are thinking: Learning green when conducting practical activities Seamus Delaney, Australia 1705 - 1720 1540 (O): Novel environmentally friendly hydro-induced fading dyes in writing and painting applications Jianyang Feng, China 1720 - 1735 2083 (O): Integrating green technology and cutting-edge research into undergraduate laboratory courses for innovative talents Lingling Li, China 1735 - 1750 1692 (O): Integrating green chemistry and microscale practices in schools: Exploring natural acid-based indicators Nisha Pandey, India	16CS3-MR406 Cheminformatics Chairperson: Ellie Teo Yi Lih, Malaysia 1630 - 1645 1462 (O): Methods and applications of cheminformatics in pesticide design Jianhua Yao, China 1645 - 1700 1206 (O): Next-gen fluid modelling: Predicting critical properties, acentric factors, and boiling points of pure fluids with ensemble learning Jean Noël Jaubert, France 1700 - 1715 1797 (O): Obelix: A curated dataset of crystal structures and experimentally measured ionic conductivities for lithium solid-state electrolytes Homin Shin, Canada	16CS3-MR407 TS1 Thematic Session - Artificial Intelligence in Chemistry Chairperson: Alvin Lim Teik Zheng, Malaysia 1630 - 1650 2746(I): Rational design of catalysts accelerated by AI assisted computational chemistry Zhi Jian Zhao, China 1650 - 1705 2616 (O): A.I. in agriculture and agricultural chemistry Bipul Behari Saha, India 1705 - 1720 2688 (O): Machine learning assisted in uncovering molecular design principles for the development of multiple-resonance TADF emitters Wai Kit Alfred Tang, Malaysia	16CS3-MR409 TS4 Thematic Session - Symposium on Chemical Safety and Security Chairperson: Nor Aidora Saedon, Malaysia 1630 - 1645 978 (O): Recent advancements in chemical safety protocols in Tunisia Ghayth Rigane, Tunisia 1645 - 1700 2088 (O): Chemical security in Vietnam - A lesson learnt Nguyen Bui, Vietnam 1700 - 1715 1622 (O): Chemical safety and security compliance of selected higher education institutions in the Philippines Gideon Legaspi, Philippines 1715 - 1725 OPCW's International Cooperation Branch WORKSHOP Chemical Safety and Security in Laboratories MILAN, ITALY Matteo Guidotti, Italy 1725 - 1800 Panel Session	16CS3-MR410 SDG13: Climate Action Chairperson: Maggie Ooi Chel Gee, Malaysia 1630 - 1650 1378 (I): Peat swamp forest as an important carbon sink and source in climate change mitigation Jeyanny Vijayanathan, Malaysia 1650 - 1705 2334 (O): Halal-compliant organoclay from plant-based surfactants: A green approach for food-grade montmorillonite modification Mohd Aidil Adhha Abdullah, Malaysia 1705 - 1720 2514 (O): Green technology approach for synthesizing thermoplastic road marking paint using sustainable biomass for carbon dioxide reduction Wan Nur Aqlima Wan Ali, Malaysia 1720 - 1735 1698 (O): Electrochemical CO₂ conversion to C₂ products: Influence of catalysts and electrolyzer design on current density and selectivity Muhammad Usman, Saudi Arabia 1735 - 1750 2759 (O): Synthesis of nickel cobalt electrocatalyst via facile hydrothermal method for hydrogen evolution reaction Rozan Mohamad Yunus, Malaysia
1900 - 2200	CONGRESS GALA DINNER @ Grand Ballroom, Basement II, Shangri-La Hotel Kuala Lumpur							

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Time	CH1&2	CH3	MR302	MR303	MR304	MR305	MR306
0900 - 1030	17CS1-CH1&2 Polymer & Materials S18 Symposium - IKM-MRB Symposium on Elastomers and Latexes (IMSEL 2025) Chairperson: Atsushi Kajiwara, Japan 0900 - 0915 1798 (O): Pre-vulcanization effects on compounding, maturation, thermal stability, and mechanical properties of Epoxidized Natural Rubber Latex-Citric Acid (ENR-CA) films Norizah Binti Abdul Rahman, Malaysia 0915 - 0930 2470 (O): Sustainable biobased thermosets from poly (1,8-octanediol-glycerol-1,12-dodecanedioic-itaconic acid) Najwa Wajihah Mohd Rusli, Malaysia 0930 - 0950 2747 (I): Catechin-rich Uncaria gambir as a dual-function antioxidant and co-crosslinking agent in natural rubber latex films Hakimah Osman, Malaysia 0950 - 1010 2669 (I): Natural Rubber Latex (NRL) waste effluent and Hevea protein purification: A microscopic study Hairani Tahir, Malaysia 1010 - 1040 2258 (K): Advancements, modifications, and trends in natural rubber chemistry: From molecular innovations to practical applications Seng Neon Gan, Malaysia	17CS1-CH3 TS8 Thematic Session - PhosAgro/ UNESCO/ IUPAC Symposium Green Chemistry: Experiences and Opportunities for Co-operation for Sustainable Future 0800 - 0845 Opening Welcome Statements Lidia Brito, France Siroj Loikov, Russian Federation Christopher Brett, Portugal Soon Ting Kueh, Malaysia H.E Naiyi M. Latypov, Russian Federation Signature of Co-operation Agreement Awarding of Certificates Session I PhosAgro/UNESCO/ IUPAC Partnership in action Chairperson: Natalia Tarasova, Russian Federation 0845 - 0900 Introductory Lecture Paul T Anastas, United States 0900 - 0915 Electrochemistry as an enabling technology in green chemistry and sustainability Christopher Brett, Portugal 0915 - 0930 A Decade of Green Chemistry in Mining: From the Phosagro/ UNESCO/IUPAC Grant to Sustainable Reprocessing of residues in the Amazon basin Juan Carlos Rodriguezreyes, Peru 0930 - 0945 Catalysis at the Crossroads: Turning Waste into Wealth for a Sustainable Future Ning Yan, Singapore 0945 - 1000 Biocatalyst for Eco-Friendly and Sustainable Zero-Waste Leather Manufacturing and Keratin Waste Valorization Wycliffe Chisutia Wanyonyi, Kenya	17CS1-MR302 Analytical & Forensic Chairperson: Mohd Sani Bin Sarjadi, Malaysia 0900 - 0930 265 (K): Analytical chemistry in courts law Brynn Hibbert, Australia 0930 - 0945 2158 (O): Bridging analytical methods and practical solutions: Accurate quantification of siloxanes and sulphur in biogas Ayush Agarwal, Switzerland 0945 - 1000 1863 (O): [BMIM]Cl-AgNPs immobilized on eggshell membrane for determination of Sulfamethoxazole in environmental water Nur Azila Mhd Wahi, Malaysia 1000 - 1015 1369 (O): Retrospective analysis of Volatile Organic Compounds (VOCs) in drinking water Kar Weng Chan, Malaysia 1015 - 1035 2081 (I): Thermal management of Metal Hydride reactor Ying Xu, New Zealand	17CS1-MR303 Environmental S17 Symposium - Carbon-Neutral Chemical Production Via Advanced Nanocatalysis Chairperson: Haw Choon Yian, Malaysia Ong Wee-Jun, Malaysia 0900 - 0930 2546 (K): The interplay between plasmonics and electrochemistry Bin Ren, China 0930 - 1000 2544 (K): Carbon-based metal-free electrocatalysts for clean energy conversion and environmental remediation Liming Dai, Australia 1000 - 1020 2335 (I): Plasmon-mediated electrochemical processes Chao Zhan, China	17CS1-MR304 Environmental S05 Symposium - Evaluation of Advanced Technologies for Carbon Sequestration, Utilisation and Capture Chairperson: Diane Purchase, United Kingdom 0900 - 0930 1813 (K): Research on energy transition and security based on digital technology model for China Peng Wang, Japan 0930 - 0950 1401 (I): Toray group's GHG reduction initiatives Tsuneyuki Yamane, Japan 0950 - 1005 1592 (O): Dow amines: from production to CO₂ capture applications Xue Chen, United States 1005 - 1020 1392 (O): Amine-functionalized hierarchically porous porphyrin-based metal-organic frameworks for highly enhanced direct air capture of CO₂ Shanshan Shang, China 1020 - 1035 1494 (O): MnO nanoparticles for CO₂ capture: Influence of nanoparticle size on adsorption performance Syawal Mohd Yusof, Malaysia	17CS1-MR305 Environmental Chairperson: Kobe Man Chung Tang, China 0900 - 0920 1771 (I): Microplastics at the interface: Estuarine convergence, benthic biofilms, and co-pollutants-driven impact Mui Choo Jong, China 0920 - 0935 2013 (O): Sustainable duckweed derived adsorbents for wastewater treatment Alvin Lim Teik Zheng, Malaysia 0935 - 0950 2050 (O): Photodegradation pathway of Bisphenol S by titanium dioxide under UVA irradiation Sharon Fatinathan, Malaysia 0950 - 1005 2536 (O): Research on electrocatalytic CO₂ reduction reaction using functional coal-based carbon materials Lang Xu, China 1005 - 1020 2556 (O): C-Au@TiO₂ nanocomposite for enhanced photodegradation of commercial henna dye Balakrishnan Karthikeyan, India	17CS1-MR306 Polymer & Materials Chairperson: Sharina Abu Hanifah, Malaysia 0900 - 0915 1484 (O): A PEO@Fe-doped ZIF-8 incorporation for enhancing lithium-ion transport in all-solid-state polymer batteries Ilhyeon Cho, Korea, Rep. 0915 - 0930 1485 (O): Highly durable and reversible H₃PO₄ and HNSO₃ mixed acid additive for vanadium redox flow battery electrolyte solutions Gyung Min Hwang, Korea, Rep. 0930 - 0945 1546 (O): The study of polyaniline ternary nanocomposite on the photocatalytic degradation of toxic dye Wai Leon Low, Malaysia 0945 - 1000 570 (O): Synthesizing polyfluorenes sustainably Roger Clive Hiorns, United Kingdom 1000 - 1030 2265 (K): Alginate-based microspheres for encapsulation of pancreatic islets in diabetes treatment Igor Lacik, Slovak Republic

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Time	CH1&2	CH3	MR302	MR303	MR304	MR305	MR306
0900 - 1030		1000 - 1015 Harnessing the Tiny Pores to Solve the Biggest Challenges: Simultaneous Critical metals and Pure Water Recovery Hamdy Hefny, Egypt 1015 - 1030 Green Chemistry through Waste Valorization: Turning Biomass and Industrial Byproducts into Functional Photocatalysts Mohamad Azuwa Mohamed, Malaysia 1030 - 1045 Renewable and Biodegradable Materials from Furanic Platform Chemicals Bogdan Karlinskii, Russian Federation 1045 - 1100 Food waste valorization using alternative strategies: Case study at UFSM, Brazil Paola Mello, Brazil					
1030 - 1100	AM Tea Break						
1100 - 1150	PLENARY 7 Advancing the Frontiers of Semiconducting Polymers Through Precision Synthesis Prof Christine K Luscombe Okinawa Institute of Science and Technology, Japan Chairperson: Rusli Daik, Malaysia						
1150 - 1240	PLENARY 8 Design and Synthesis of Nanomaterials for Biomedical and Energy Applications Prof Jackie Yi-Ru Ying King Faisal Specialist Hospital & Research Centre, Saudi Arabia Chairperson: Yang Farina Abdul Aziz, Malaysia						
1240 - 1400	Lunch						
1400 - 1600	17CS2-CH1&2 Polymer & Materials Chairperson: Gan Seng Neon, Malaysia 1400 - 1415 1716 (O): Protein separation using chitin monolith in the continuous flow system Armeida Dwi Ridhowati Madjid, Japan	17CS2-CH3 TS8 Thematic Session - PhosAgro/ UNESCO/ IUPAC Symposium Green Chemistry: Experiences and Opportunities for Co-operation for Sustainable Future Session II Partnerships in green chemistry: Looking ahead Chairperson: Christopher Brett, Portugal	17CS2-MR302 Analytical & Forensic Chairperson: Erico Marlon De Moraes Flores, Brazil 1400 - 1415 1284 (O): Amyloid-ss peptides interaction with curcumin: AFM and electrochemical characterisation Ana Maria Oliveira Brett, Portugal	17CS2-MR303 Environmental S09 Symposium - Marine Radioactive Chairperson: Silvina Di Pietro, United States 1400 - 1430 2315 (K): Radioactivity in the marine environment: Context, perceptions, and risks Nicholas Priest, Canada	17CS2-MR304 Environmental S05 Symposium - Evaluation of Advanced Technologies for Carbon Sequestration, Utilisation and Capture Chairperson: Diane Purchase, United Kingdom	17CS2-MR305 Environmental S08 Symposium – Applications of Nanotechnology for Sustainable Agriculture Chairperson: Melanie Kah, New Zealand Rai Kookana, Australia	17CS2-MR306 Polymer & Materials S22 Symposium - Biopolymers and Sustainability Chairperson: Azizul Hakim Lahuri, Malaysia 1400 - 1415 2174 (O): Optimization of polylactide synthesis using flow chemistry Simon Harrisson, France

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Time	CH1&2	CH3	MR302	MR303	MR304	MR305	MR306
1400 - 1600	1415 - 1430 970 (O): Sol/Gel transition of thermoresponsive alginate: From liquids to elastic and sticky materials Dominique Hourdet, France 1430 - 1445 2488 (O): Synthesis and characterization of chitosan functionalized salicylaldehyde and 2-acetylphenol-based thiosemicarbazones, and their anticancer activity Hari Sharan Adhikari, Nepal 1445 - 1500 1059 (O): Enhanced photorefractive performance via tailored conjugation length and density of state in poly(carbazyl-amine) polymers Meng Che Tsai, Taiwan, China 1500 - 1515 977 (O): Synthesis and characterization of novel copolymers of polyacetylene and PDI-containing polyolefins using romp Hassan Said Bazzi, Qatar 1515 - 1530 1512 (O): Weak polyelectrolyte membranes with a wide Ion-Exchange capacity (IEC) range and limited water swelling in clean technologies for sustainability Hee Jeung Oh, United States 1530 - 1600 1722 (K): Are plastic wonder materials or a curse on ecology and human life? Suresh Valiyaveetil, Singapore 1600 - 1615 2229 (O): Starch materials: Opportunities and Challenges Long Yu, China	1400 - 1415 Chemistry for Sustainable Development Goals Ting Kueh Soon, Malaysia 1415 - 1430 The reaction media as "greening tool" in the synthesis of phosphorus- and sulfur-containing polymers Natalia Tarasova, Russian Federation 1430 - 1445 Conversion of biomass, CO₂, and waste plastics into chemicals and fuels Buxing Han, China 1445 - 1500 There is too much waste. A solution would be decay. But can't we use some of it to make biogas? Nicole Jeanne Moreau Nee Laffont, France 1500 - 1515 New polymer from starch: High versatile green materials Francesco Trotta, Italy 1515 - 1530 Smart and green utilization of bioresources – An opportunity for achieving a circular economy Vladimir Dimitrov, Bulgaria 1530 - 1545 Study on Biological activities of some Canna species, orienting development of key medicinal plants for cardiovascular treatment Nguyen Van Hung, Vietnam 1545 - 1600 Research Opportunities at SESAME Andrea Lausi, Jordan	1415 - 1430 1412 (O): Revolutionizing biomarker detection: A novel det-based biosensor with an antibody-aptamer hybrid sandwich for complex biological samples Ann Maria Kurishunkal Binu, Korea, Rep. 1430 - 1445 1720 (O): Application of MXenes in sensors and sensing devices Arunas Ramanavicius, Lithuania 1445 - 1505 986 (I): Recent advances in the development and application of chemical sensors based on molecularly imprinted polymers Aziz Amine, Morocco 1505 - 1520 1317 (O): Innovations in electrochemical sciences through 3D printing: From tailored electrodes to multi-functional platforms Simona Baluchová, Czechia 1520 - 1535 2142 (O): Nanocrystalline cellulose hydrogel encapsulated plasmonic nanosensors for detection of Reactive Oxygen Species (ROS): Towards a sensing bandage Yusra Rabbani, Australia 1535 - 1550 2752 (O): Surface chemistry and tribology in action: Bridging material design and performance Damien Khoo, Malaysia 1550 - 1605 2280 (O): Application of Isotope Ratio Mass Spectrometry (IRMS) to Forensic Sciences Lionnel Mounier, France	1430 - 1450 1310 (I): Measurement of uranium series radionuclides in Shu River waters Mukhambetkali Burkitbayev, Kazakhstan 1450 - 1510 1230 (I): Artificial radionuclides in marine sediment Fani Sakellariadou, Greece 1510 - 1530 1366 (I): Radioactivity in the Irish coastal environment: A review of 40 years of investigations Luis León Vintró, Ireland 1530 - 1550 1568 (I): ¹³⁷Cs dispersion in coastal ocean following the Fukushima Daiichi nuclear power plant accident: Contributions of direct release and river discharge Daisuke Tsumune, Japan	1400 - 1420 2055 (I): Harmonizing reporting standards and evaluating advanced carbon capture technologies Diane Purchase, United Kingdom 1420 - 1435 1914 (O): Tuning UIO-66-SO₃H for superior CO₂ adsorption with dual ligands Lee Peng Teh, Malaysia 1435 - 1450 1450 (O): The engineered platform for bio-ethylene production from atmospheric resource, CO₂ Sadanari Jindou, Japan 1450 - 1505 1992 (O): CO₂ hydrogenation to Olefins over Fe-based composite catalysts Zixu Yang, China 1505 - 1520 1968 (O): Reduced graphene oxide as an advanced support for nickel catalysts in CO₂ methanation Nur Diyan Mohd Ridzuan, Malaysia 1520 - 1540 1275 (I): Carbon capture, utilization and storage – Developing country perspective Bipul Behari Saha, India	1400 - 1430 1370 (K): Next generation risk assessment applied to nanopesticides Melanie Kah, New Zealand 1430 - 1450 2106 (I): Novel mineral-hydrogel composites for sustainable nutrient recovery and delivery Young Shin Jun, United States 1450 - 1510 2398 (I): Tailored nanomaterials for drug delivery applications and their prospects in nano-agrochemicals use Kasturi Muthoosamy, Malaysia 1510 - 1525 1356 (O): Understanding the interactions of polymer nanocarriers used in a agrochemicals using water-ligand observed via gradient spectroscopy (WaterLOGSY) NMR Dona Manayath Mary Das, New Zealand 1525 - 1540 1525 (O): Preparation and testing methods of nano urea for agricultural applications Shrikant Prakashrao Aherkar, India	1415 - 1430 1265 (O): Solar interfacial evaporators based on biomaterials Weiwei Shi, China 1430 - 1450 2394 (I): Acacia gum as a natural biopolymer additive for improving hydrophilicity and conductivity of Endocrine Disrupting Chemicals (EDCS) electrochemical biosensors Sharina Abu Hanifah, Malaysia 1450 - 1510 1895 (I): Effect of acid dopants on the antibacterial properties of carrageenan/polyaniline films Sook Wai Phang, Malaysia
1600 - 1630	PM Tea Break						

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Time	CH1&2	CH3	MR302	MR303	MR305
1630 - 1800	17CS3-CH1&2 Polymer & Materials Chairperson: Lee Kian Mun, Malaysia 1630 - 1645 628 (O): 3D-printable polymer nanocomposites, with high thermal conductivity and very low electrical conductivity Jean Pierre Simonato, France 1645 - 1700 1269 (O): Machine learning-based prediction of Mg-containing materials Guang Zheng, China 1700 - 1720 1560 (I): Large-area crystalline conjugated polymers and devices Huanli Dong, China 1720 - 1740 1298 (I): Exploring deuterated materials for opto-electronics Kobe Man Chung Tang, Malaysia 1740 - 1800 1387 (I): Luminescent organosilane and organogermane MR-TADF emitters for operationally stable blue organic light-emitting diodes Maggie Ng, China 1800 - 1815 2643 (O): Fabrication of nanostructured electrode materials for sustainable energy applications A J Saleh Ahammad, Bangladesh	17CS3-CH3 TS8 Thematic Session - PhosAgro/ UNESCO/ IUPAC Symposium Green Chemistry: Experiences and Opportunities for Co-operation for Sustainable Future Session II Partnerships in green chemistry: Looking ahead Chairperson: Christopher Brett, Portugal 1615 - 1630 Green chemistry and catalysis: The view from Moscow Ekaterina Lokteva, Russian Federation 1630 - 1645 Characterization and valorization of plant biodiversity and natural resources for more food and pharmaceutical sovereignty and sustainable development in Africa: The key role of chemistry Dogo Seck, Senegal 1645 - 1700 Photocatalysts for Green Photocatalytic Degradation of Emerging Water Pollutants Mirabbos Hojamberdiev, Denmark 1700 - 1715 Green and Sustainable Chemistry and the Future of Food Vania Gomes Zuin Zeidler, Germany 1715 - 1730 Sustainable healthcare with bio-based smart polymers Choy Sin Lee, Malaysia 1730 - 1745 General Discussion Closing	17CS3-MR302 Analytical & Forensic Chairperson: Low May Lee, Malaysia 1630 - 1645 1239 (O): A self-cleaning strategy for electrochemical oxidation of α-Pinene with minimal electrode fouling Danny Wong, Australia 1645 - 1700 1718 (O): Structuring of boron doped diamond surfaces for electroanalysis Karolina Schwarzova, Czechia 1700 - 1715 1571 (O): Dual-mode adsorptive and electrochemical sensing of bisphenol a using hybrid conducting polymer-chitosan magnetic nanoparticles Kavirajaa Pandian Sambasevam, Malaysia 1715 - 1730 1253 (O): AI-assisted smart analytical approaches for the early diagnosis and prognosis of heart attack Sook Mei Khor, Malaysia 1730 - 1745 2089 (O): Automatic biosensing via digital microfluidics combined with chemiluminescence Yan Jin, China 1745 - 1800 1815 (O): Affinity-switchable biotin binding: A new signal transduction approach for rapid molecule analyses Kui Thong Tan, Taiwan, China	17CS3-MR303 Environmental S17 Symposium - Carbon-Neutral Chemical Production Via Advanced Nanocatalysis Chairperson: Nabilah Saafie, Malaysia Choon Yian Haw, Malaysia 1630 - 1700 2703(K): Metal Organic Frameworks for Energy Applications: Perfect MOFs, Defective-, Quasi- and Post-MOFs John Wang, Singapore 1700 - 1720 2471 (I): Plasma catalysis for efficient CO₂ conversion Hao Zhang, China 1720 - 1740 2389 (I): Electrosynthesis of fuels and chemicals: From electrolyzers to batterolyzers Hanfeng Liang, China 1740 - 1800 2346 (I): Immobilizing ionomers by hydrogen bond networks for highly stable water electrolysis at 3.0 A/cm² Hua Bing Tao, China	17CS3-MR305 Environmental S06 Symposium - Understanding and Managing Environmental Impacts of Tire Use: From Wear Particles to End-of-Life Management Chairperson: Divina Navarro, Australia 1630 - 1700 1558 (I): Bridging the gap between the environmental impacts of tyre particles, tyre recovery and end-of-life solutions Linda Mitchell, Australia 1700 - 1720 1301 (I): What's lurking in tyres? Chemical insights into recycled rubber Divina Navarro, Australia 1720 - 1735 2044 (O): Environmental degradation and impact assessment of tire-derived microplastics: A comparative study of unused tires, recycled rubber chips, and tire and road wear particles Daryll Anne Dimapilis, Philippines 1735 - 1750 2700 (O): Fate and transport of toxic chemicals leaching from tyre wear particles Rai Kookana, Australia
1800	End of 17th July 2025 - Level 3 Programme				

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Time	MR401	MR402	MR403	MR404	MR405	MR406	MR407	MR408	MR409	MR410
0900 - 1030	17CS1-MR401 Green Chemistry Chairperson: Antonio Patti, Australia 0900 - 0920 1778 (I): Upcycling of CO₂ and spent polyesters to valuable chemicals Yanfei Zhao, China 0920 - 0935 1064 (O): Identifying active sites within fully exposed clusters for efficient cyclohexane dehydrogenation Mi Peng, China 0935 - 0950 1325 (O): Micelle-enabled bromination of alpha-oxo ketene dithioacetals: Mild and scalable approach via enzymatic catalysis Thao Huynh Nguyen Thanh, Thailand 0950 - 1005 1464 (O): Electrocatalytic activity of iron centers generated within phosphide environment toward reduction of nitrogen to ammonia Pawel Kulesza, Poland 1005 - 1020 1283 (O): Inorganic salts catalyzed CO₂ promoted hydration of ethylene oxide Guohua Gao, China 1020 - 1035 2806 (O): Allicin E - Antimicrobial - providing innovative solutions in the fight against pathogenic microorganisms Junwei Wang, Thailand	17CS1-MR402 Organic & Biomolecular Chairperson: Zainab Ngaini, Malaysia 0900 - 0930 1224 (K): Chiral spiro catalysts for asymmetric hydrogenation of ketones Qi Lin Zhou, China 0930 - 0945 2400 (O): The Bull-James assembly: Efficient iminoboronate complex formation for chiral derivatization and supramolecular assembly Steven Bull, United Kingdom 0945 - 1000 2187 (O): Hyperbaric synthesis of cyclobutanes for fragment-based drug discovery Daniel Blanco Ania, Netherlands	17CS1-MR403 Inorganic & Bioinorganic Chairperson: Yang Farina Abdul Aziz, Malaysia Cheow Yuen Lin, Malaysia 0900 - 0930 2321 (K): Phosphine-stabilized dicarbon and its chemistry Tiow Gan Ong, Taiwan, China 0930 - 0950 2002 (I): Design, synthesis, and property optimization of inorganic functional materials: From atomic structure to macroscopic performance Ling Chen, China 0950 - 1005 1197 (O): Gold(I) and Gold(III) phosphane tellurides: From bonding to S-hole activation M. Concepción Gimeno, Spain 1005 - 1020 1967 (O): Biguanide metal complexes as efficient ROP catalysts for sustainable (co-) polymers Lukas Vlk, Czechia 1020 - 1035 1498 (O): Modelling the catalytic domain of bacterial virulence factors: A first step towards inhibitor design Paulina Potok, Poland	17CS1-MR404 Organic & Biomolecular Chairperson: Toshiaki Murai, Japan 0900 - 0920 1904 (I): Boron cage extension strategy with aromatic heterocycles Jordi Poater, Spain 0920 - 0935 1199 (O): Enantioselective C–P and C–C bond formation through C(sp³)–H functionalization Raquel P. Herrera, Spain 0935 - 0950 1116 (O): Gold-catalyzed and NaH-supported cyclization of N-propargylated pyrrole and indole: Synthesis of heterocycles with new scaffolds Metin Balci, Turkiye 0950 - 1005 1249 (O): Aminopiperidines and derivatives as anti-PAF/anti-HIV-1 antagonists. Synthesis and molecular modelling Houcine Benmehdi, Algeria 1005 - 1020 1112 (O): Application of photopharmacology in agrochemicals Xusheng Shao, China 1020 - 1035 2768 (O): Synthetic approaches towards bioactive daibucarboline a derivatives with dual anti-inflammatory and anticancer potential for next-generation therapeutics Noor Hidayah Pungot, Malaysia	17CS1-MR405 TS11 Thematic Session - IYCN/ MYCN Young Chemist Programme Chairperson: Tien Thuy Quach, United Kingdom Mazlin Mohideen, Malaysia Ayush Agarwal, Switzerland Mohd Ridhwan Adam, Malaysia 0900 - 0945 Meet & Greet 1 - Panel Discussion with Plenary Speakers about their unique experience Christine Luscombe, Japan Peter Mahaffy, Canada 0945 - 1030 Getting to Know about IYCN, MYCN, EYCN, and other YCNs Tien Thuy Quach, United Kingdom Fatimah Salim, Malaysia Noah Al-Shamery, Singapore Lydia Rhyman, Mauritius Q&A	17CS1-MR406 SDG3: Good Health & Well Being Chairperson: Rozida Mohd Khalid, Malaysia 0900 - 0930 2246 (K): Immunosuppressive and anti-inflammatory activities of natural α, β-unsaturated carbonyl-based compounds on the immune system Ibrahim Jantan, Malaysia 0930 - 0945 1359(O) - Study of antiobesity effect through inhibition of pancreatic lipase activity of <i>Tradescantia spathacea</i> leaves Win Nie Ng, Malaysia 0945 - 1000 1883 (O): Enriching flavonoids: sustainable valorization of Kenaf (<i>Hibiscus cannabinus</i> L.) Byproducts for the development of natural therapeutic agents in wound healing Mohamad Shazeli Che Zain, Malaysia 1000 - 1015 2156 (O): Comprehensive metabolite profiling, cytotoxicity evaluation, and antinociceptive activity of optimized kratom leaves extract using accelerated solvent extraction technique Thiruvethan Karunakaran, Malaysia 1015 - 1030 2241 (O): Spontaneous formation of 17 amino acids using water radical cations mediated nitrogen and carbon dioxide Huan Wen Chen, China	17CS1-MR407 TS1 Thematic Session - Artificial Intelligence in Chemistry Chairperson: Cindy Tan, Malaysia 0900 - 0930 2530 (K): Quantum machine learning for molecules - A hybrid quantum neural wavefunction approach Zhigang Shuai, China 0930 - 0950 2353 (I): Modelling asymmetric catalysis with machine learning and structural features Pavel Sidorov, Japan 0950 - 1010 1374 (I): Application of machine learning to mass spectrometry analysis of catalytic systems Julia Burykina, Russian Federation 1010 - 1025 2595 (O): Multi-modal artificial intelligence for molecular-level mapping of organic-mineral interfaces in shale Xiangye Kong, China	17CS1-MR408 SDG6: Clean Water & Sanitation Chairperson: Nurfaizah Abu Tahrir, Malaysia 0900 - 0930 2558 (K): Research directions in current and future challenges in line with SDG 6: Clean water and sanitation towards water sector transformation 2040 (AIR 2040) Mohd Zaki Mat Amin, Malaysia 0930 - 0950 1630 (I): Application of bimetallic oxides for water/waste remediation Bharat Kumar Allam, India 0950 - 1010 1858 (I): In-situ Raman spectroscopy study of water at electrode/solution interface Yaohui Wang, China 1010 - 1025 1887 (O): Integrate bubble flotation and intermittent microbubble-enhanced cold plasma activation for scalable disinfection of food processing wastewater Xuehua Zhang, Canada 1025 - 1040 2553(O) - Affordable clean water using advanced materials Thalappil Pradeep, India	17CS1-MR409 TS4 Thematic Session – Symposium on Chemical Safety and Security Chairperson: Lee Hooi Ling, Malaysia 0900 - 0920 1966 (I): Empowering institutions: Freely available tools for chemical risk assessments and security management Maurice Payne, United States 0920 - 0935 983 (O): Enhancing laboratory safety and security education in Salahaddin university-Iraq with 3D animation and virtual reality: A new approach for improving student engagement and awareness Sangar Ahmed, Iraq 0935 - 0950 2133 (O): Health, safety and environmental risk assessment of chemistry laboratories in higher educational institutions in Lagos, Nigeria Oluseun Popoola, Nigeria 0950 - 1005 Poster Session 2 Announcements 1005 - 1030 Panel Session	17CS1-MR410 SDG7: Affordable & Clean Energy Chairperson: Wong Lai Peng, Malaysia 0900 - 0930 2740 (K): Pretreatment of wastewater and sludge for enhanced methane production during anaerobic digestion Mohamed Hasnain Isa, United Kingdom 0930 - 0950 2658 (I): AMR control and resource utilization of livestock manure through anaerobic digestion Wei Yuan Song, China 0950 - 1010 1589 (I): Demonstrating solar ethylene production, reactor integration in multi-step conversion from H₂O and CO₂ Pau Farras, Ireland 1010 - 1030 2326 (I): Ce-Zr/Al-MCM-41 as catalyst for biodiesel production from date seed oil Anita Ramli, Malaysia

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Time	MR401	MR402	MR403	MR404	MR405	MR406	MR407	MR408	MR409	MR410
1030 - 1100	AM Tea Break									
1100 - 1240	Plenary Session at CH1&2									
1240 - 1400	Lunch									
1400 - 1600	17CS2-MR401 Green Chemistry S16 Symposium - Towards a Sustainable Future: Engaging Society for a Systemic Change Chairperson: João Borges, Portugal Juliana Vidal, United States 1400 - 1410 Introduction to the Symposium S16 1410 - 1440 1260 (K): Building a global, inclusive community to tackle sustainability Francesca Kerton, Canada 1440 - 1500 1321 (I): Engaging learners through the benefits and challenges of plastics towards achieving the UN SDGs Jane Wissinger, United States 1500 - 1515 1161 (O): Galactaric acid as bio-based platform chemical Giacomo Trapasso, Italy 1515 - 1530 1770 (O): From trash to suds: Tandem upcycling of waste polyolefin plastics to detergents Zhen Xu, China 1530 - 1545 2437 (O): Sustainable catalytic supports from insect-based chitosan via mechanochemistry Ana Paula Da Costa Ribeiro, Portugal	17CS2-MR402 Organic & Biomolecular S02 Symposium – Organic Mechanochemistry Chairperson: Davor Margetic, Croatia 1400 - 1401 Opening Davor Margetic, Croatia 1400 - 1430 1350 (K): Sustainable preparation of WHO essential medicines by mechanochemistry Evelina Colacino, France 1430 - 1450 762 (I): Mechanochemistry for revolutionary efficient synthesis organic and organometallic compound Hajime Ito, Japan 1450 - 1510 2207 (I): Recent advances in mechanochemical organic reactions Guan Wu Wang, China 1510 - 1530 1380 (I): Reaction paths in organic mechanochemistry by in-situ monitoring Ivan Halasz, Croatia 1530 - 1550 681 (I): Organic mechanochemistry – past, present and future Davor Margetic, Croatia	17CS2-MR403 Inorganic & Bioinorganic Chairperson: Mohammad Kassim, Malaysia 1400 - 1430 1757 (K): Perovskite barium tantalum oxynitride: From materials synthesis to solar water splitting Mirabbos Hojamberdiev, Denmark 1430 - 1450 1375 (I): Designing transition metal-based nanostructures for sustainable photo-catalysis Kalyanjyoti Deori, India 1450 - 1505 1516 (O): Investigating the physicochemical properties and biological interactions of novel Ni(II), Pd(II), and Pt(II) metallodrugs Monika Nowakowska, South Africa 1505 - 1520 2464 (O): Innovative nanostructured derivatives of zinc(II) and copper (II) phthalocyanine ligated with piperidine for photodetection applications Furkan Isik, Turkiye 1520 - 1535 2059 (O): Structural diversity of lanthanide complexes functional to their separation and recovery Luciano Marchio, Italy	17CS2-MR404 Organic & Biomolecular S04 Symposium – A.I. Guided Automation in Synthetic Processes Chairperson: Laura Russo, Italy 1400 - 1430 1287 (K): Fasten robotic synthesis of biopolymers by AI guided prediction Laura Russo, Italy 1430 - 1450 1430 (I): Transforming synthetic chemistry with an integrated hardware-software AI chemist system Kuangbiao Liao, China 1450 - 1510 1358 (I): Automation in chromatographic separation Fanyang Mo, China 1510 - 1525 2562 (O): Moleprinter: Fully automatic workstation of repetitive synthesis Changxu Lin, China 1525 - 1545 2704 (I): MaterialEyes - Seeing the invisible using experiment, theory, and AI Maria Chan, United States	17CS2-MR405 TS11 Thematic Session - IYCN/MYCN Young Chemist Programme Chairperson: Oliver Thomas, United Kingdom Mohd Azlan Kassim, Malaysia Brian Li, United Kingdom Yvonne Shuen Lann Choo, Malaysia 1400 - 1445 RSC Roadshow Grant Applications Andrew Shore, United Kingdom Insights into RSC Publishing Brian Li, United Kingdom 1445 - 1600 Roundtable: Mapping the Future of Young Chemists Tien Thuy Quach, United Kingdom Fatimah Salim, Malaysia Noah Al-Shamery, Singapore Lydia Rhyman, Mauritius	17CS2-MR406 SDG3: Good Health & Well Being Chairperson: Ibrahim Jantan, Malaysia 1400 - 1415 1735 (O): Evaluating the safety of herbal medicines: Current challenges and regulatory perspectives Md Rausan Zamir, Bangladesh 1415 - 1430 1775 (O): Exploring the role of saffron in reverse cholesterol transport: A novel approach to atherosclerosis intervention Yasmin Mohd Zainal Abidin Shukri, Malaysia 1430 - 1445 1390 (O): Biflavonoids from <i>Araucaria</i> as a potential PDE4 inhibitors: In silico and in vitro studies Nafisah Nafisah, Indonesia 1445 - 1500 1695 (O): In-silico prediction of biflavonoids from Indonesian <i>Araucaria cunninghamii</i> Mudie as non-covalent proteasome inhibitors Luthfan Irfana, Indonesia 1500 - 1515 1620 (O): Cytotoxic properties of biflavonoids from Indonesian <i>Araucaria</i>: A potential lead for anticancer therapy Purwantiningsih, Indonesia	17CS2-MR407 TS1 Thematic Session - Artificial Intelligence in Chemistry Chairperson: Aishah Abdul Aziz, Malaysia 1400 - 1420 982 (I): AI for learning across chemical space and quantum chemical methods Pavlo Oleksandrovych Drai, Germany 1420 - 1440 2058 (I): Machine learning aided charge transport dynamics Chaoping Hsu, Taiwan, China 1440 - 1500 1796 (I): Machine learning for protein identification and biomarker discovery in mass spectrometry-based proteomics Mark Ivanov, Russian Federation 1500 - 1515 1654 (O): Predicting co adsorption on multi-elemental alloy nanoparticle using machine learning Susan Aspera, Japan 1515 - 1530 2460 (O): Chemistry students' awareness of Artificial Intelligence (AI)-enhanced learning Habiddin, Indonesia	17CS2-MR408 SDG6: Clean Water & Sanitation Chairperson: Nur Izzati Md Saleh, Malaysia 1400 - 1415 2383 (O): Enhancing the adsorption of cadmium from aqueous solutions using titanium dioxide-doped carbon nano adsorbents via response surface methodology Hamza Abbas Asmaly, Malaysia 1415 - 1430 1645 (O): Analytical, modelling and nanotechnology techniques for water quality management Jane Catherine Ngila, South Africa 1430 - 1445 1901 (O): Indium oxide/gold/carbon nanocomposite for efficient visible light driven photodegradation of dyes Teck Hock Lim, Malaysia 1445 - 1500 1453 (O): Process optimization for the removal of lead (II) from aqueous solution using spent coffee grounds via response surface methodology Mac Michael Rubio, Philippines	17CS2-MR409 TS4 Thematic Sessions - Symposium on Chemical Safety and Security Chairperson: Maurice Payne, United States 1400 - 1420 1639 (I): Applying product stewardship for chemical security Muhammad Anas Danial Ismail, Malaysia 1420 - 1435 2052 (O): Chemical safety and security regulatory compliance in Indonesia Ikawati Suryani, Indonesia 1435 - 1450 1918 (O): Enhancing chemical safety in Thailand: Incident analysis and key lesson for industrial practices Ongart Thanetnit, Thailand 1450 - 1505 1549 (O): Enhancing chemical security with comprehensive security measures for chemical laboratories and storage facilities - University of Suleimani, Kurdistan region-Iraq Diary Tofiq, Iraq 1505 - 1600 Panel Session Symposium Conclusion	17CS2-MR410 SDG7: Affordable & Clean Energy Chairperson: Hayyiratul Fatimah Mohd Zaid, Malaysia 1400 - 1420 2449 (I): In-situ study of nanocatalytic reactions using surface-enhanced Raman spectroscopy Hua Zhang, China 1420 - 1440 2439 (I): Optimizing 3D functionalized graphene for supercapacitor electrode Kwok Feng Chong, Malaysia 1440 - 1455 2426 (O): Local electron band structure regulation facilitates efficient photo-thermal catalysis of CO₂ methanation over Ni-ceria catalyst Zhenyu Zhang, China 1455 - 1510 925 (O): Sustainable energy solutions: Optimizing biodiesel production through heterogeneous catalysis using ZnO/SiO₂ from agricultural waste Abd Rahman Marlan, Indonesia 1510 - 1525 2373 (O): Local-structure and chemical-order modulation of HEAs for enhanced OER performance Xindong Zhu, China

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Time	MR401	MR402	MR403	MR404	MR405	MR406	MR407	MR408	MR409	MR410
1400 - 1600	1545 - 1600 2767 (O): Case study for promoting positive research and education Tien Thuy Quah, United Kingdom		1535 - 1550 2322 (O): Isoindoline-1,3-diimine derivatives and their metal complexes Ales Ruzicka, Czechia 1550 - 1605 1437 (O): Pt(II) complexes with bidentate (imino) pyridine: Synthesis, characterization, reactivity towards thiol, DNA interactions and cytotoxicity studies Tshephiso Papo, South Africa			1515 - 1530 2776 (O): Structural characterization and bioactivity evaluation of plant-derived polysaccharides: A potential therapeutic management for diabetes Muhammad Hasnun Md Yusoff, Malaysia 1530 - 1545 2786 (O): Phytochemical analysis and biological activity of <i>Calophyllum canum</i> Hook F. ex T. Anderson: Insights into antioxidant and antibacterial effects against <i>Acinetobacter nosocomialis</i> and <i>Acinetobacter baumannii</i> Jong Vivien Yi Mian, Malaysia		1500 - 1515 1061 (O): Eco-friendly biosorption of heavy metals and anions by <i>Pleurotus eryngii</i> : A sustainable solution for water decontamination Farah Amin Pathan, Pakistan 1515 - 1530 2248 (O) Eco-friendly enzyme wash on Denim garments and economic prospects Waziha Farha, Bangladesh 1530 - 1545 2238 (O): Visible-light-driven degradation of tetracycline using $\text{CaFe}_2\text{O}_4/\text{CuWO}_4$ composite: Synthesis, characterization, and mechanistic insight Harsha S Rangappa, India 1545 - 1600 2008 (O): Thermally and chemically stable isoporous block copolymer membranes Volkan Filiz, Germany 1600 - 1615 1727 (O): Reusable chemically functionalized fluorescent cryogels: A sustainable approach to environmental monitoring Zeynep Munteha Sahin, Türkiye		1525 - 1540 2194 (O): Transition to a clean energy future by decentralizing hydrogen production Joaquim Faria, Portugal 1540 - 1555 960 (O): Synergism, pyrolysis performance, product distribution and characteristics in the co-pyrolysis of date palm waste and polyethylene foam: harnessing the potential of plastics and biomass valorization Ahmad Nawaz, India 1555 - 1610 2299 (O): Interfacial-engineered bimetallic catalysts for photothermal CO hydrogenation Xie Zhaoda, China
1600 - 1630	PM Tea Break									

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Time	MR401	MR402	MR403	MR404	MR405	MR406	MR409	MR410
1630 - 1800	17CS3-MR401 Green Chemistry Chairperson: Juliana Vidal, Brazil 1630 - 1645 1900 (O): Synthesis of non-noble metal catalysts for H₂O₂ electrosynthesis Wenchao Peng, China 1645 - 1700 2086 (O): Dual annealing strategy to activate inert tungsten metal: Synergistic optimization of mass transfer and activity in CTF-derived ORR catalysts Huan Ye, China	17CS3-MR402 Organic & Biomolecular Chairperson: Rozida Mohd Khalid, Malaysia 1630 - 1650 2520 (I): Development of artificial water channels through small-molecule self-assembly Pinaki Talukdar, India 1650 - 1705 1926 (O): Cycloaddition reactions: Experimental and computational approaches Lydia Rhyman, Mauritius 1705 - 1720 1080 (O): A single bioorthogonal reaction for multiplex cell surface protein labelling Yu Hsuan Tsai, China 1720 - 1735 2427 (O): Synthesis and anticancer evaluation of novel N², N⁹-benzylated-β-carbolium bromate derivatives Mazlin Mohideen, Malaysia 1735 - 1750 1657 (O): Design and synthesis of indole-based antibacterial compounds Chee Wei Ang, Malaysia	17CS3-MR403 Inorganic & Bioinorganic Chairperson: Nurul Huda Abd Karim, Malaysia 1630 - 1645 1324 (O): Optimal electronic structure of Ru-based electrocatalysts for hydrogen oxidation reaction Licheng Wei, China 1645 - 1700 1303 (O): From waste to power: utilizing barley husk as a sustainable anode active material alternative to graphite in lithium-ion batteries Yimin Chao, China 1700 - 1715 2173 (O): Unexplored facets of layered materials: New looks to old faces Luis De Jesus Baez, United States 1715 - 1730 1355 (O): Photocatalytic application of monodisperse cluster-based multi-level structural materials Wenxiong Shi, China 1730 - 1745 1831 (O): High-performance nanozymes: Rational design and biomedical applications Hui Wei, China 1745 - 1800 1254 (O): Nanocatalysts as artificial enzymes their applications in diagnostic systems Philani Mashazi, South Africa	17CS3-MR404 Organic & Biomolecular Chairperson: Jordi Poater, Spain 1630 - 1645 1313 (O): Synthesis and isomerization of azobenzene-cycloparaphenylene macrocycles for responsive materials Wei Tzu Huang, Taiwan, China 1645 - 1700 1295 (O): Dual-axis aligned thermophilic artificial water channels formed by water-induced self-assembly Chien Lung Wang, Taiwan, China 1700 - 1715 2225 (O): Synthesis and evaluation of the anticancer activity of <i>Teucrium polium</i> functionalized silver nanoparticles against colorectal cancer cells Anjani Uma Rani Mosalikanti, Malaysia 1715 - 1730 1114 (O): Identification of furanyl- and thiophenyl-3-phenyl-1H-indole-2-carbohydrazide derivatives as potent anti-tubulin and anticancer agents Chatchakorn Eurtivong, Thailand 1730 - 1745 2656 (O): Benzylidene-hydrazones as telomerase-targeting anticancer and antioxidant agents: Synthesis, crystal structure, pharmacokinetic profiling, and molecular docking Mohammad Sayed Alam, Bangladesh	17CS3-MR405 TS11 Thematic Session - IYCN/MYCN Young Chemist Programme Chairperson: Ayush Agarwal, Switzerland Sharon Fatinathan, Malaysia Onyinyechi Aliene, Nigeria Shahrul Nizam Ahmad, Malaysia 1630 - 1715 Professional Development 1: Education & Volunteering for Future Chemists João Borges, Portugal Fun Man Fung, Ireland Rui Goncalves, Singapore 1715 - 1800 Professional Development 2: Maintaining Digital Branding Bren Mark Felisilda, Philippines Lovish Raheja, India	17CS3-MR406 SDG3: Good Health & Well Being Chairperson: Fatimah Salim, Malaysia 1630 - 1650 984 (I): Development of better Bedaquiline for multi-drug-resistant tuberculosis Peter Choi, New Zealand 1650 - 1705 2289 (O): Augmented docking pipelines: Leveraging machine learning in template-based NNRTI screening models Swagata Gupta, India 1705 - 1720 2128 (O): Pyridine derivatives targeting acetylcholinesterase inhibition in Alzheimer's disease Iti Patel, India 1720 - 1735 2127 (O): Malic enzyme inhibition of pyrimidine derivatives for pancreatic cancer treatment Shubham Ashokkumar Mehta, India 1735 - 1750 2124 (O): Anticancer activity and cell death mechanism of heteroleptic bimetallic ruthenium(II,III) complexes against human breast cancer sub-types Siyabonga Ngubane, South Africa 1750 - 1805 1773 (O): Harnessing sustainable resources for research and innovation Zainab Ngaini, Malaysia	17CS3-MR409 TS7 Thematic Session - Professional and Responsible Practices in Chemistry Including Responsible Care Chairperson: Javier Garcia Martinez, Spain IUPAC Guiding Principles for the Responsible Practice of Chemistry 1630 - 1650 2596 (I): Building a responsible and inclusive future in chemistry Javier Garcia Martinez, Spain 1650 - 1710 2311 (I): Sustainable and inclusive chemistry labs for a sustainable future Ale Palermo, United Kingdom 1710 - 1730 2233 (I): Ethics and academic integrity in research and teaching Uday Maitra, India 1730 - 1750 2298 (I): Chemistry for good: Bridging IUPAC principles and local needs in ASEAN Fun Man Fung, Ireland	17CS3-MR410 SDG7: Affordable & Clean Energy Chairperson: Chong Kwok Feng, Malaysia 1630 - 1645 2277 (O): The role of p-block metal elements in electrocatalytic sulphur oxidation: Design of Bi-CuCoSx/CF active sites Shuai Li, China 1645 - 1700 2170 (O): Solar and laser photoactivated materials for high performance energy storage devices Weiping Wu, China 1700 - 1715 2150 (O): Perovskite-based materials for photoelectrochemical green ammonia Nicola Sangiorgi, Italy 1715 - 1730 1801 (O): Optimizing hydraulic retention time for enhanced biogas and methane production from ultrasonicated palm oil mill effluent: A sustainable approach to renewable energy generation Lai Peng Wong, Malaysia 1730 - 1745 1944 (O): Revolutionizing dry reforming of methane with nickel-bimetallic catalysts on dolomite support Mohd Razali Shamsuddin, Malaysia 1745 - 1800 2027 (O): Recent advances in photochargeable materials for dark photocatalysis Wan Emilin Suliza Wan Abdul Rashid, Malaysia 1800 - 1815 2098 (O): Enhancing optimization of flow channel design and configuration in polymer electrolyte membrane fuel cell Kang Huai Tan, Malaysia
1800	End of 17th July 2025 - Level 4 Programme							



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Time	CH1&2						
0800 - 0845	PhosAgro/UNESCO/IUPAC/IKM Lecture The Stockholm Declaration on Chemistry for the Future Prof Paul T Anastas Yale University, United States Chairperson: Song Ting Kueh, Malaysia						
Time	CH1&2	CH3	MR302	MR303	MR304	MR305	MR306
0900 - 1030	18CS1-CH1&2 Polymer & Materials Chairperson: Sin Sau Leng, Malaysia 0900 - 0915 2301 (O): Towards concurrent enhancement of ionic conductivity and mechanical properties of ionogel for flexible supercapacitor applications Yvonne Shuen Lann Choo, Malaysia 0915 - 0930 2352 (O): Tailoring porous engineering and surface modifications for enhanced lithium-ion diffusion Jincheol Kim, Korea, Rep. 0930 - 0945 2354 (O): Three-dimensional polymer binder design with improved ionic conductivity for advanced Li-ion batteries Sanghyeon Woo, Korea, Rep. 0945 - 1000 2496 (O): Boron and hydroxyl functionalized 3D crosslinking binder for enhanced performance in silicon anodes for lithium-ion batteries Juwon Jeong, Korea, Rep. 1000 - 1030 2237 (K): Toward 3-dimensional organic mixed ionic-electronic conductor structures Myung Han Yoon, Korea, Rep. 1030 - 1045 2779 (O): Field-responsive alignment dynamics in chiral nematic liquid crystals: ESR insights into helical director distributions Che Rozid Mamat, Malaysia	18CS1-CH3 Education & Public Understanding Chairperson: Mai Yan Yuen, Hong Kong, China 0900 - 0930 2344 (K): Exploring the potential of virtual reality to help students learn chemical concepts Mauro Mocerino, Australia 0930 - 0945 1511 (O): Chemical automation: An innovative course for the age of smart chemistry Changxu Lin, China 0945 - 1000 1724 (O): Enhancing chemistry education with AI-driven interactive models: A study on Wade's rule and borane clusters Mai Yan Yuen, Hong Kong, China 1000 - 1015 1574 (O): Assessing students' collaborative learning process in IVR for learning chemistry Bruno Hernandez, Australia 1015 - 1030 2342 (O): Artificial intelligence in chemistry education - Where are we? Jamie Zheng Yuan Khoo, Singapore 1030 - 1045 961 (O): Research ethics in the chemical sciences Eucharina Nwaichi, Nigeria	18CS1-MR302 Analytical & Forensic Chairperson: Tan Ming Yueh, Malaysia 0900 - 0915 1800 (O): Ensuring accuracy: Validation of a mercury analyzer for toxicological assessment in blood and urine Ridzuan Abd Aziz Mohd Yusop, Malaysia 0915 - 0930 1889 (O): Understanding mercury in the petroleum industry: A novel isotope and species predictive trend Abigail Goodman, Malaysia 0930 - 0945 2155 (O): Total-Reflection X-ray Fluorescence (TXRF) as a promising method for geochemical researches Artem Maltsev, Russian Federation 0945 - 1000 1999 (O): Determination of in-vitro water resistance retention of sunscreen product Norsyariza Abd Aziz, Malaysia 1000 - 1015 1406 (O): Rapid and economical chemoselective metabolomics using boronate ester formation on a monolithic substrate Xiangyu Wang, China 1015 - 1030 2347 (O): HPLC method for the simultaneous determination of sugars and medium-chain carboxylic acids in microbial fermentation samples Liyana Salwa Mohd Nazir, Malaysia	18CS1-MR303 SDG6: Clean Water & Sanitation Chairperson: Lee Yook Heng, Malaysia 0900 - 0915 2159 (O): Water purification from microtoxicant diclofenac by catalytic hydrodechlorination Ekaterina Lokteva, Russian Federation 0915 - 0930 2479 (O): Investigation and comparison of plant membrane filtration for water purification Nur Diyana Aqilah Kamarudin, Malaysia 0930 - 0945 2453 (O): Design of mesoporous iodine-doped g-C₃N₄ with carbon vacancies for efficient visible-light-driven tetracycline removal Bao Lee Phoon, Malaysia 0945 - 1000 988 (O): Assessment of chromium levels, heavy metal contamination, and ecological risks from tannery waste disposal in Kenya and South Africa Joshua Nosa Edokeyi, South Africa 1000 - 1015 2451 (O): Sewage water samples analysis as a tool for monitoring illegal drugs Nurfaizah Abu Tahir, Malaysia 1015 - 1030 2592 (O): Waterless textile dyeing: A sustainable solution for a water-scarce future Md Ibrahim, Bangladesh	18CS1-MR304 Environmental Chairperson: Mohd Sani Sarjadi, Malaysia 0900 - 0915 2075 (O): Gasification of solid waste for high-purity H₂ production with negative CO₂ emissions Xiuping Liao, Australia 0915 - 0930 2202 (O): Evaluations of biobed systems processing pesticide rinsate - The Canadian Prairies perspective Annemieke Farenhorst, Netherlands 0930 - 0945 2338 (O): Innovative CUR-CPTMS-NZC beads for efficient and sustainable methylene blue dye removal from aqueous solutions Mohd Ridhwan Adam, Malaysia 0945 - 1000 1907 (O): Integrating experimental and computational tools for adsorptive removal of dicamba using UIO-66(Zr)-impregnated cholinium alanate ionic liquid Khairulazhar Jumbri, Malaysia 1000 - 1015 2363 (O): Repurposing local agro-waste: A novel strategy for improving agricultural water quality Mohammad Shahid Shahrin, Malaysia 1015 - 1030 2785 (O): Quality assessments of Refined, Bleached, and Deodorized Palm Oil (RBDPO) and Refined Used Cooking Oil (RUCO) based on Free Fatty Acid (FFA) content for biodiesel production Faizuan Abdullah, Malaysia	18CS1-MR305 Environmental S17 Symposium - Carbon-Neutral Chemical Production Via Advanced Nanocatalysis Chairperson: Nabilah Saafie, Malaysia 0900 - 0920 2390 (I): Polyaniline integrated hydroxyl functionalized g-C₃N₄ with synergistic interfacial design for enhanced photocatalytic hydrogen peroxide production Mohamad Azuwa Mohamed, Malaysia 0920 - 0940 2435 (I): Photocatalytic Integrated Carbon Capture and Utilization (ICCU) approach for conversion of CO₂ to methanol in amine solution of Acid Gas Removal Unit (AGRU) Xin Hong Tai, Malaysia	18CS1-MR306 SDG3: Good Health & Well Being Chairperson: Peter Choi, New Zealand 0900 - 0930 1291 (K): Bridging tradition and science: Improving indigenous medicine in Sri Lanka Priyani Paranagama, Sri Lanka 0930 - 0945 1282 (O): NMR-based stability evaluation of (E)-1-(3',4'-dimethoxyphenyl) butadiene (DMPBD) from <i>Zingiber cassumunar</i> Roxb. rhizome Chatkamon Lekwongphaiboon, Thailand 0945 - 1000 2650 (O): Flavin dependent halogenase from the lichen <i>Dirinaria sp.</i> Rozida Mohd Khalid, Malaysia 1000 - 1015 699 (O): Proteasome inhibitor: Synthesis, evaluation and molecular simulation Poh Yen Khor, Malaysia 1015 - 1030 1063 (O): New family of poly(amidoamine) dendrimers and dendrons for Magnetic Resonance Imaging (MRI) application Said El Kazzouli, Morocco

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Time	CH1&2	CH3	MR302	MR303	MR304	MR305	MR306
0900 - 1030					1030 - 1045 2414 (O): Characterization of nonpolar organic pollutants in the ambient aerosols of Dhaka megacity during wintertime Mohammad Lokman Hossain, Bangladesh		
1030 - 1100	AM Tea Break						
Time	CH1&2						
1100 - 1150	PLENARY 9 Biosensors Without Frontiers: Nucleic Acid Testing in Low Resource Areas Prof Lisa Hall University of Cambridge, United Kingdom Chairperson: Malarvili Ramalingam, Malaysia						
1150 - 1240	PLENARY 10 Continuous Movement of Carbon Atoms in Organic Molecules: Merry-Go-Round Reactions Prof Tamotsu Takahashi Hokkaido University, Japan Chairperson: Zuriati Zakaria, Malaysia						
Time	CH1&2	CH3	MR302	MR303	MR304	MR305	MR306
1240 - 1400	Lunch						
1400 - 1600	18CS2-CH1&2 Polymer & Materials Chairperson: Eng Aik Hwee, Malaysia 1400 - 1415 965 (O): Molecularly imprinted polymers in advanced environmental sensing using FAPA-MS Aleksandra Lusina, Poland 1415 - 1430 1471 (O): Fast lossy sridhara-based compression and eigensolving of circumcoronene Hamiltonians for quantum sensing Dennis Lima, Qatar 1430 - 1445 2336 (O): Ag-functionalized h-BN nano-hybrid: Solvothermal synthesis, multifunctional characterizations and anti-microbial activity assessment Mannan Ma, Bangladesh	18CS2-CH3 Education & Public Understanding Chairperson: Felix Ho, Sweden 1400 - 1430 2490 (K): Structuring student learning experiences and developing skills: Aligning outcomes, activities, and assessment Renee Cole, United States 1430 - 1500 2697(K): Problem solving at the interface of chemistry and mathematics – Cognitive and epistemic challenges Felix Ho, Sweden 1500 - 1515 1706 (O): Effects of attention regularity in chemistry achievement, learning interesting, and attitude among high schools in China Xiaoqin Lai, China	18CS2-MR302 Analytical & Forensic Environmental Chairperson: Li Hui Ling, Malaysia 1400 - 1430 2678 (K): Advances in reference material development for food safety and nutrition analysis in China Hongmei Li, China 1430 - 1445 1277 (O): Novel insights into the properties of star anise polysaccharides and their potential for metabolic disorder management Abu Hurairah Darwisy Bin Alias, Malaysia	18CS2-MR303 SDG6: Clean Water & Sanitation Chairperson: Jamilah Karim, Malaysia 1400 - 1415 1832 (O): Diagnosis of water resources in the city of Bandundu in the democratic republic of Congo Valentin Tembe Mwela, Congo, Dem. Rep. 1415 - 1430 1391 (O): Electro-driven cycling Fenton catalysis through the electro-responsive metal-organic frameworks for water purification Chao Yang, China 1430 - 1445 1538 (O): Assessment of various photothermal materials for interfacial solar vaporization Memon Najma, Pakistan	18CS2-MR304 Environmental S10 Symposium - Nuclear Magnetic Resonance Spectroscopy for Environment and Sustainability Chairperson: Silvia Borsacchi, Italy Elisa Carignani, Italy 1400 - 1430 2458 (K): Solid-state NMR spectroscopy how mistrust in its reliability revealed new insights in soil biochemical processes Heike Knicker, Spain 1430 - 1445 1361 (I): A transportable MRI sensor to monitor the water status of plants in situ Guilhem Pages, France 1445 - 1500 1281 (I): NMR without Fourier Transform: A new era for environmental analysis by NMR Jeremy Gauthier, Canada	18CS2-MR305 Environmental Chairperson: Tai Xin Hong, Malaysia 1400 - 1415 1910 (O): Corrosion inhibition screening of nitrobenzaldehyde Meldrum's acid using response surface method and machine learning Azhan Arif Mansor, Malaysia 1415 - 1430 1935 (O): Controllable introduction of edged nitrogen sites in CVD-derived carbon materials for enhanced Fenton-like reactions Ying Chen, China 1430 - 1445 1646 (O): Influence of drying and extraction techniques on carrageenan properties and phytochemical constituents of <i>Kappaphycus striatus</i> Mohd Sani Bin Sarjadi, Malaysia	18CS2-MR306 SDG3: Good Health & Well Being Chairperson: Priyani Paranagama, Sri Lanka 1400 - 1415 2428 (O): Deep complex processing of Siberian plant waste as a way to achieve the sustainable development goals Elena Avdeenko, Russian Federation 1415 - 1430 2612 (O): Health and nutritional benefits of the coconut for food security Fabian Dayrit, Philippines 1430 - 1445 1830 (O): Phenoxymethylketone warheads create potent dual-mode peptidomimetic inhibitors against SARS-CoV-2 Floris Rutjes, Netherlands

18th July 2025, Friday – Level 3

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Time	CH1&2	CH3	MR302	MR303	MR304	MR305	MR306
1400 - 1600	1445 - 1500 2463 (O): Anti-freezing and anti-drying conductive double-network hydrogel with high elasticity Nur Sara Batrishia Binti Rosli, Malaysia 1500 - 1515 2405 (O): Controlled growth of polyaniline on epoxy functional cotton fabric and investigation of electrochemical properties Nergiz Cengiz, Turkiye 1515 - 1530 2167 (O): High-throughput approaches to sustainable macromolecular engineering Melody Morris, United States 1530 - 1545 2581 (O): From single to multi-atom catalysts by covalent organic frameworks for highly efficient electrocatalytic nitrogen reduction to ammonia Zhenjun Chang, China 1545 - 1600 1591 (O): Ultrafast charge transfer cascade in a mixed-dimensionality heterostructure Alexis Myers, United States	1515 - 1530 2065 (O): Rethinking chemistry triplet in the era of generative artificial intelligence Gyeonggeon Lee, Singapore 1530 - 1545 2117 (O): Machine learning for automated scoring and textbook analysis in chemistry education research Mei Hung Chiu, Taiwan, China 1545 - 1600 2372 (O): Integrating design thinking process, sustainability, and a life simulation game in designing a chemistry laboratory room Ralph Lauren Alomia, Philippines 1600 - 1615 1965 (O): Science communication in chemistry: Transitioning with generative AI Mohd Bakri Bakar, Malaysia	1500 - 1515 1983 (O): Organic molecular probes for imaging and therapy Yanli Tang, China S15 Symposium - Microplastics and Nanoplastics Chairperson: Weiping Wu, China Hemda Garelick, United Kingdom 1530 - 1550 1929 (I): Plastics and microplastics in the marine environment Fani Sakellariadou, Greece 1550 - 1610 2148 (I): Micro- and nanoplastics in environmental samples – Requirements for reliable quantification Roland Kallenborn, Norway 1445 - 1500 761 (O): Development of green and robust liquid chromatographic method for simultaneous determination of amlodipine besylate, perindopril tert-butylamine, and atorvastatin calcium Amtul Qayoom Arain, Pakistan	1445 - 1500 1327 (O): Effect of naturally occurring doping acid towards polyaniline properties and contaminant removal Michelle Li Yen Lee, Malaysia 1500 - 1515 1223 (O): Development of thin film polyamide with modified graphene oxide derived from petroleum industrial waste supported PVDF membrane for efficient wastewater treatment Mauliady Satria, Indonesia 1515 - 1530 2773 (O): Polyhydroxyalkanoates-biochar: Optimizing composite for enhanced biofilm attachment and development Si Ling Ng, Malaysia 1530 - 1545 2473 (O): Water quality impact from durian farms to water resources Noor Azme Bin Omar, Malaysia	1500 - 1515 1651 (I): Unveiling biochar-urea interactions in slow-release nitrogen fertilizers: A multinuclear solid state NMR study Silvia Pizzanelli, Italy 1515 - 1530 1975 (I): Catching pollutants with Selenadiazole functionalised porphyrin nanotubes Marc Antoine Sani, Australia 1530 - 1545 1792 (I): Next-generation materials for gas separation and carbon capture: Insights from solid state NMR spectroscopy Francesca Martini, Italy 1545 - 1600 1637 (I): Illite mineral physicochemical transformation upon NH₃ gas treatment Silvina Di Pietro, United States	1445 - 1500 2062 (O): The effects of supplementary materials on mechanical properties of Ordinary Portland Cement with low-lime calcium silicate powder Gwangmok Kim, Korea, Rep. 1500 - 1515 1115 (O): Microplastics as an emerging environmental pollutant in agricultural soils: Current understanding from Malaysia Sarva Mangala Praveena, Malaysia 1515 - 1530 1257 (O): Exploring the potential of freshwater algae for active compound extraction and environmental monitoring Zuzanna Piotrowicz, Poland 1530 - 1545 2165(O): Carbon dioxide catalytic conversion into valuable products: A sustainable approach Luis Branco, Portugal	1445 - 1500 1562 (O): Novel hybrid molecules from 2-amino-4-aryl thiazole and 2-methyl-5-nitro-3-phenacyl nitroimidazole as an alternative for Leishmaniasis and Trypanosomiasis caused by <i>L. mexicana</i> and <i>T. cruzi</i> Cristoper Ramirez Sandoval, Mexico 1500 - 1515 1885 (O): Tocotrienol isomers as potential anti-atherogenic agents: A molecular docking study targeting E-selectin, ICAM-1, and VCAM-1 Hazirah Watikah Abdah, Malaysia 1515 - 1530 2284 (O): Mixonat – driven natural product research: Unlocking bioactive treasures Mohamad Nurul Azmi Mohamad Taib, Malaysia 1530 - 1545 1936 (O): Biological efficacy of tetrahydrocurcumin analogs: Implications for antiaging skincare Ritmaleni Ritmalemi, Indonesia 1545 - 1600 2764 (O): <i>Dodonaea viscosa</i> flowers: A Hawaiian source of potent antibacterial and antiproliferative effects in breast cancer cells Leng Chee Chang, United States
1600 - 1630	PM Tea Break						
Time	CH1&2	CH3	MR304		MR305		
1630 - 1800	18CS3-CH1&2 Polymer & Materials Chairperson: Lim Teck Hock, Malaysia 1630 - 1645 2526 (O): Cu-Gr-TiO₂ ternary nanocomposite for the application of anticorrosion coating: Synthesis, characterization and anticorrosion properties Mui Yen Ho, Malaysia 1645 - 1700 2016 (O): Nanotubular structures displaying high hydrophobicity and strong water adhesion Abdoulaye Drame, Senegal	18CS3-CH3 SDG2: Zero Hunger Pesticides In Agriculture and Chromatographic Analyses of Food / Agriculture Produce Chairperson: Lee Yook Heng, Malaysia 1630 - 1650 1719 (I): The fate and potential impacts of chiral pesticides in complex agricultural soil environments Hui Liu, China 1650 - 1705 2368 (O): Synthesis of environmentally safe plant resistance inducers as an alternative to pesticides Rafal Kukawka, Poland	18CS3-MR304 Polymer & Materials Chairperson: Khairul Anuar Mat Amin, Malaysia 1630 - 1645 2126 (O): Synthesis and design of anionic polymers and microgels for biomedical adhesives Elena Kozhunova, Russian Federation 1645 - 1700 1794 (O): Motility-induced organisation of polymers from active monomer units Alexander Chertovich, Russian Federation		18CS3-MR305 Environmental Chairperson: Mohamad Azuwa Mohamed, Malaysia 1630 - 1645 2421 (O): The production of hydrogen peroxide by electrochemical oxygen reduction reaction and application of Fenton reaction in environmental catalysis Chengbo Ma, China 1645 - 1700 1768 (O): Barium–organic framework for capture and chemical fixation of CO₂ via cyclic carbonates and oxazolidinones Aasif Helal, Saudi Arabia		

18th July 2025, Friday – Level 3

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Time	CH1&2	CH3	MR304	MR305
1630 - 1800	1700 - 1715 2234 (O): Tailoring multiporous carbon nanomaterials via electrospun polyacrylonitrile block copolymers: Effects of composition and processing on morphology and porosity Peter Mallon, South Africa 1715 - 1730 2137 (O): Enhancing dielectric properties of poly (vinylidene fluoride) nanocomposite films incorporated with BaTiO₃ and ZrO₂ nanocomposites Yash Ughade, India	1705 - 1720 2281 (O): Application of Isotope Ratio Mass Spectrometry (IRMS) to origin and naturalness characterization of food products Lionnel Mounier, France 1720 - 1735 2430 (O): LC-MS molecular networking and multivariate analysis reveal antioxidant constituents in the Malaysian culinary herb kesum (<i>Polygonum minus</i> Hud.) Adiez Sapura Azmi, Malaysia 1735 - 1750 1415 (O): Determining of MOSH and MOAH in palm oil matrices using online HPLC-GC-FID analysis: Verification of ISO 20122/2024 method Maznah Zainol, Malaysia 1750 - 1805 2411 (O): Unlocking the future of food: Elemental insights into alternative proteins with organic elemental analysis Hun Teong Cheah, Singapore	1700 - 1715 2563 (O): Development of a PCL-PDA-Cu nanofibre scaffold with controlled release of copper ions for antibacterial and osteogenic synergy Tongbin Liu, China 1715 - 1730 973 (I): Towards circular high-performance composites via chemistry Baris Kumru, Turkiye 1730 - 1745 1106 (O): Printable 2D nanoparticle superlattices via directed confined self-assembly of polymer-tethered nanoparticles Renhua Deng, China 1745 - 1800 2134 (O): Frequency-dependent electrical conductivity of polyvinylidene fluoride nanocomposites reinforced with CuO and TiO₂ Labi Agrawal, India 1800 - 1815 2778 (O): Functional biomaterials for wound healing: Innovations in gellan gum-based hydrogel systems Khairul Anuar Mat Amin, Malaysia	1700 - 1715 1774 (O): Removal of six heavy metal ions from water using a biochar-polyaniline composite derived from oil palm empty fruit bunches Ravi Varma Sudaya, Malaysia
1800	End of 18th July 2025 - Level 3 Programme			

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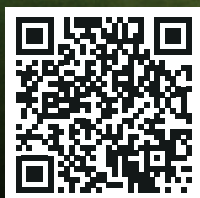
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Time	MR401	MR402	MR403	MR404	MR405
0900 - 1030	18CS1-MR401 Green Chemistry TS5 Thematic Session - Invest Sarawak Chairperson: Lee Hwei Voon, Malaysia 0900 - 0915 2103 (O): Raspberry-like gold nanoparticle-decorated titania nanorods for plasmon-enhanced photoelectrochemical oxygen evolution Anisa Fitriani Rosyadi, Korea, Rep. 0915 - 0930 695 (O): Harnessing biological insight: Integrating proton regulation, pH buffer and zincophilicity for highly stable Zn anode Zhang Lili, China 0930 - 0945 1465 (O): Development of hybrid copper-containing metal-oxide systems for reduction of carbon dioxide in acid medium Iwona Rutkowska, Poland 0945 - 1000 2082 (O): Enhancing photocatalytic activity of reduced dendritic fibrous titania through gold deposition Jaejun Yoo, Korea, Rep. TS5 Thematic Session - Invest Sarawak 1000 - 1030 Investment Opportunities in Sarawak Shannon Tan, Malaysia	18CS1-MR402 TS5 Thematic Session - Invest Sarawak Session has moved to hall 401	18CS1-MR403 Inorganic & Bioinorganic Chairperson: New Siu Yee, Malaysia 0900 - 0915 1521 (O): Atomically precise inorganic helices with a programmable twist Maxx Arguilla, United States 0915 - 0930 2085 (O): Branched-cation-incorporated two-dimensional perovskites: Structural evolution and optoelectronic applications Wenxuan Li, China 0930 - 0945 1940 (O): Multipath luminescence of metal-organic complexes Mei Pan, China 0945 - 1000 1347 (O): Exploring the anticancer potential of organometallic PGM complexes containing selected indole derivatives Brandon Munnik, South Africa 1000 - 1015 1769 (O): Metal complexes at the binding sites of bacterial virulence factors Slawomir Potocki, Poland	18CS1-MR404 Organic & Biomolecular Chairperson: Mark Distefano, United States 0900 - 0930 1208 (K): Developing new synthetic methodologies of dearomatization reactions Shuli You, China 0930 - 0945 1472 (O): From DNA-programmed biomembrane fusion to oligonucleotide delivery Stefan Vogel, Denmark 0945 - 1000 1429 (O): Synthesis and in silico evaluation of chalcone-coumarin hybrids as BACE-1 inhibitors for potential Alzheimer's therapy Hanhan Dianhar, Indonesia 1000 - 1015 1323 (O): Synthesis strategies toward indigo analogs Dyah Utami Cahyaning Rahayu, Australia	18CS1-MR405 TS11 Thematic Session - IYCN/ MYCN Young Chemist Programme Chairperson: Fatimah Salim, Malaysia Brian Li, United Kingdom Chua Yao Jun, Malaysia Bren Felisilda, Philippines 0900 - 0945 Meet & Greet 2 - Panel Discussion with Plenary Speakers about their unique experience Eiichi Nakamura, Japan 0945 - 1030 ACS ChemIDP: Planning for Your Career Workshop David Laviska, United States
1030 - 1100	AM Tea Break				
1100 - 1240	Plenary Session at CH1&2				
1240 - 1400	Lunch				

18th July 2025, Friday – Level 4

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Time	MR401	MR402	MR403	MR404	MR405
1400 - 1600	18CS2-MR401 Green Chemistry SDG7: Affordable & Clean Energy Chairperson: Lim Teck Hock, Malaysia 1400 - 1415 1843 (O): Electrochemistry as a powerful tool for advancing the fields of C-H functionalization and hydrogen production Oscar Verho, Sweden 1415 - 1430 1585 (O): Screening single transition metal atoms anchored on carbon nanotubes for electrochemical CO₂ reduction Wuyang Lin, United Kingdom 1430 - 1445 1195 (O): Cationic polyelectrolyte enables CO₂ electroreduction in metal cation-free acidic media Jun Gu, China 1445 - 1500 1373 (O): Application of recyclable carbon nitride photocatalyst in visible-light mediated synthesis of β-keto sulfones Binoyargha Dam, India 1500 - 1515 1476 (O): Formulation, characterization and application of green, efficient and lipase-bio-compatible bicontinuous microemulsions Xirong Huang, China SDG7: Affordable & Clean Energy 1515 - 1530 1421 (O): Targeting barriers in alkaline water electrolysis: Catalysts and binder innovations Anzel Falch, South Africa 1530 - 1545 1246 (O): Dual-isolation effect of bismuth in non-noble BiNi alloys for enhanced performance in H₂O₂ electrosynthesis Xiaomei Liu, China 1545 - 1600 1395 (O): Enhanced hydrogen production using Co, Cu, and Ni-doped TiO₂ photoanode in photoelectrochemical cells Nur Ain Atiqah Mohd Amin, Malaysia 1600 - 1615 2644 (O): Serpentinization-driven white hydrogen production: A nature-inspired approach using synthetic olivine Safyan Khan, Saudi Arabia	18CS2-MR402 SDG5: Gender Equality Chairperson: New Siu Yee, Malaysia 1400 - 1430 2554 (K): Supporting and increasing the visibility of women in science Frances Separovic, Australia 1430 - 1450 2565 (I): Advancing gender equality in Taiwanese chemistry community Chaoping Hsu, Taiwan, China 1450 - 1510 2256 (I): How to make chemistry inclusive for Blind or Low Vision (BLV) students: Examples from different chemistry topics Mustafa Sozbilir, Turkiye 1510 - 1530 2309 (I): Expanding gender equity: Results from a cross-national, cross-sector study of STEM careers Tracey Peter, Canada 1530 - 1550 2659(I): Chemistry for gender equality in Africa for achieving sustainable development goals Jane Catherine Ngila, South Africa 1550 - 1610 2525 (I): Not just at the table: Leading science by redefining who thrives Josephine Tsang, Canada	18CS2-MR403 Inorganic & Bioinorganic Chairperson: Low May Lee, Malaysia 1400 - 1415 2200 (O): Synthesis, reactivity, and anticancer activity of new N-heterocyclic thiones and selones Daniel Rabinovich, United States 1415 - 1430 1881 (O): Ruthenium and rhenium-based photosensitizers: Advancing photodynamic therapy for anticancer and antibacterial applications May Lee Low, Malaysia 1430 - 1445 1454 (O): Development of Fe₃O₄/ZnO heterostructure photocatalyst derived from Fe-doped ZIF-8 for the photocatalytic degradation of tetracycline and hydrogen peroxide production Sumiyah Sabar, Malaysia 1445 - 1500 2188 (O): Metal-organic framework isomerism, SF₆ sorption and fluorescence detection of organophosphates and insecticides Lars Öhrström, Sweden 1500 - 1515 2374 (O): Regulating short-range chemical ordering and local polyhedral configurations in Ni-Mo-P-B metallic glass Zhongzheng Yao, China 1515 - 1530 1920 (O): Effect of sustainably derived 45S5 bioglass on the properties of biowaste-derived hydroxyapatite composites Chui Kim Ng, Malaysia 1530 - 1545 1497 (O): Bacterial metalloproteinases as virulence factors: Exploring peptide-based inhibition Martyna Zawada, Poland 1545 - 1600 2140 (O): Development of hybrid compounds of metal complexes and organic compounds with peptides that induce paraptosis cell death in cancer cells via intracellular calcium signals Shin Aoki, Japan	18CS2-MR404 Organic & Biomolecular Chairperson: Fatimah Salim, Malaysia 1400 - 1420 1165 (I): P-chirogenic organophosphorus compounds: Axis to center chirality transfer reaction Toshiaki Murai, Japan 1420 - 1435 2213 (O): Natural product-inspired thiosemicarbazones: Synthesis, in vitro anti-malarial activity, antiproliferative activity and in silico molecular docking and molecular dynamic simulation studies Ming Yueh Tan, Malaysia 1435 - 1450 1030 (O): Intramolecular vs intermolecular zwitterionic acylpyrazolone ligands and their spontaneous coordination with caesium carbonate Vanya Kurteva, Bulgaria 1450 - 1505 2192 (O): Biocatalytic protein modification for the development of next-generation therapeutic agents Mark Distefano, United States 1505 - 1520 2009 (O): Development of carbohydrate-based drugs and prodrugs to overcome antimicrobial resistance Catarina Maria, Portugal 1520 - 1535 1816 (O): Purity determination of caffeine as high-purity organic substance reference material using a mass balance approach Nor Fariha Muhamad Zin, Malaysia 1535 - 1550 1848 (O): Synthesis and antimalarial evolution of transition metal Schiff base and Dirhodium(II) complexes with 4-aminoquinoline scaffolds Nurul Izzaty Hassan, Malaysia	18CS2-MR405 TS11 Thematic Session - IYCN/ MYCN Young Chemist Programme Chairperson: Mohd Azlan Kassim, Malaysia Bren Mark Felisilda, Philippines 1400 - 1600 Workshop 1: Empowering the Next Generation of Chemistry Leaders Lydia Rhyman, Germany
1600 - 1630	PM Tea Break				

18th July 2025, Friday – Level 4

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Time	MR401	MR402	MR403	MR404	MR405
1630 - 1800	18CS3-MR401 SDG7: Affordable & Clean Energy Chairperson: Khairulazhar Jumbri, Malaysia 1630 - 1645 1377 (O): Enhanced electrochemical performance of aqueous zinc-ion batteries with porous basil-derived carbon and nanostructured MnO₂ composite cathodes Yuda Prima Hardianto, Saudi Arabia 1645 - 1700 1285 (O): Eco-innovative LDPE photodegradation via BiOI–ZrO₂ nanocomposites Bharat Kumar Allam, India 1700 - 1715 1648 (O): Optimizing TiO₂ photocatalyst with Co and Ni doping for improved hydrogen production Hayyiratul Fatimah Mohd Zaid, Malaysia 1715 - 1730 1638 (O): Carbon-neutral society that circulates carbon dioxide and methanol Junji Nakamura, Japan 1730 - 1745 1488 (O): Sulfonated solid acid catalyst derived from waste banana trunks for biodiesel production study Shiau Huai Choong, Malaysia 1745 - 1800 1422 (O): Impact of iron loading on Ce-modified alumina for blue hydrogen via chemical looping Achmad Ferdiansyah Pradana Putra, Saudi Arabia	18CS3-MR402 SDG5: Gender Equality Chairperson: Mei Hung Chiu, Taiwan, China 1630 - 1650 2749 (I): Advancing gender equality in chemistry: Challenges, opportunities, and future directions Ghada Bassioni, Egypt, Arab Rep. 1650 - 1710 1835 (I): Shaping the future of chemistry: IUPAC'S guiding principles for responsible chemistry Javier Garcia Martinez, Spain 1710 - 1730 2476 (I): From periodic to equal table: Harnessing nanocarbon technology for a cooler, carbon-neutral, and inclusive world Rozzeta Dolah, Malaysia	18CS3-MR403 Inorganic & Bioinorganic Chairperson: Nurul Huda Abd Karim, Malaysia 1630 - 1645 1743 (O): Di-(2-picoly)amine derivatized sulphonamide ligands and platinum complexes for prospective bioimaging applications Kithmini Yasarithna, Sri Lanka 1645 - 1700 682 (O): Design, synthesis, and selective cytotoxicity of novel anti-cancer agents targeting metastatic and non-metastatic breast cancer cell Emmanuel Chukwudalu Ohaekenyem, Nigeria 1700 - 1715 2481 (O): Synthesis, characterization, and anticancer activity of copper(II) chitosan functionalized imidazole-2-thiosemicarbazones Hari Sharan Adhikari, Nepal	18CS3-MR404 Organic & Biomolecular Chairperson: Noor Alicezah Mohd Kasim, Malaysia 1630 - 1645 1793 (O): Liquid crystalline and fire retardant evaluation of new cyclotriphosphazene derivatives with ester-Schiff base linkages Zuhair Jamain, Malaysia 1645 - 1700 1536 (O): Conversion of indanone-derived geminal azidofluorides to isoquinolines or benzoyl fluorides Fanhong Wu, China 1700 - 1715 2462 (O): Synthesis, crystal structure and molecular docking of coumarin-functionalised N-heterocyclic carbene ligands Puvana Selvarajoo, Malaysia	18CS3-MR405 TS11 Thematic Session - IYCN/ MYCN Young Chemist Programme Chairperson: Mohamad Shazeli Che Zain, Malaysia Oliver Thomas, United Kingdom 1630 - 1800 Workshop 2: Science Communication Shahrul Nizam Ahmad, Malaysia 1800 - 2200 Dinner with Young Chemists (Optional) – Pre-Registration Required
1800	End of 18th July 2025 - Level 4 Programme				

18 JULY 2025, FRIDAY | 9:00-17:00 @ Suite 4, Level 3 – *By invitation*

- Meeting of PhosAgro/UNESCO/IUPAC International Jury for Green Chemistry on "The Assessment of the programme achievements and drawbacks and the relevant opportunities for fostering green chemistry for sustainable development"
- Meeting of invited PhosAgro/UNESCO/IUPAC grantees on "Recommendations on the empowerment of young scientists and the use of their talents for promoting green chemistry and the sustainable development"



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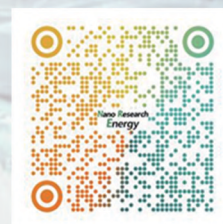
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19th July 2025, Saturday

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Time	CH1&2
0900 - 1000	19CS1-CH1&2 IKM GOLD MEDAL AWARD LECTURE Mesostructured Materials Driving Innovations in Clean Energy and Environmental Sustainability Edward Juan Joon Ching Universiti Malaya, Malaysia Chairperson: Soon Ting Kueh, Malaysia
1000 - 1030	AM Tea Break
1030 - 1110	PLENARY 11 Cinematic Chemistry: The Journey of Electron Microscopy from Organic Synthesis to Molecular Statistics Prof Eiichi Nakamura University of Tokyo, Japan Chairperson: Buxing Han, China
1110 - 1200	PLENARY 12 Single-Atom Catalysis Prof Zhang Tao Chinese Academy of Sciences, China Chairperson: Ho Chee Cheong, Malaysia
1200 - 1230	Closing Ceremony
1230 - 1400	Farewell Lunch

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Ken Tanaka

Poster Presentation Session 1

Mounting Time: 15th July 2025 from 0900 hrs

Venue: Banquet Hall, Level 3

Dismantle Time: 16th July 2025 at 1600 hrs



Cluster I – Analytical & Forensic

Poster ID	Abstract ID — Title & Author
S1-PP01	1251 — A preliminary study of the local rice breeds using isotope ratio mass spectrometry <i>Mohamad Izharudin Che Amat, Malaysia</i>
S1-PP02	1413 — Beyond the hype: Establishing a universal framework for wearable biochemical sensor standards <i>Paolo Bollella, Italy Derek Craston, Ruchi Gupta, Zoltán Mester, Tsuyoshi Minami, Takae Takeuchi, Joseph Wang, Luisa Torsi</i>
S1-PP03	2396 — Automated NMR acquisition and processing for high-throughput analytical quality management <i>Sean Bowen, United States</i>
S1-PP04	2419 — I-Spectrochem chemometrics multivariate: Rapid determination of kinematic viscosity (KV) & SimDist high temperature (HT) in vacuum gasoil <i>Mohd Izzat Bin Sulaiman, Malaysia Muhammad Zaki Bin Ibrahim</i>
S1-PP05	1428 — Development and optimization of an analytical method for air pollution monitoring using canisters by Gas Chromatography-Mass Spectrometry with Thermal Desorption (GC-MS-TD) techniques <i>Amran Bin Ahmad, Malaysia</i>
S1-PP06	1490 — Chemical profiling of New Psychoactive Substances (NPS) received in Sarawak - A pilot study <i>Aishah Abdul Aziz, Malaysia Hazalinawati Zailani, Wan Nur Syuhaila Mat Desa, Biling Anak Peter Raig</i>
S1-PP07	1542 — Functionalized fullerenes C60 and C70 as novel sorbents in analytical chemistry <i>Marcin Musielak, Poland Maciej Serda, Madhav Chavhan, Rafał Sitko</i>
S1PP08	1763 — Development of a μ -solid phase extraction device for efficient environmental pollutant analysis in water <i>Muhammad Nur Hafiz Rozaini, Malaysia Noorfatimah Yahaya, Muggundha Raoov Ramachandran</i>
S1-PP09	1345 — Determination of organochlorine pesticide residues in Chinese herbal medicines using Gas Chromatography - Tandem Mass Spectrometry (GC-MS/MS): Method validation and measurement uncertainty estimation <i>Lai Ming Ella Wong, Hong Kong, China Jacky Ya Yin Choi</i>
S1-PP10	1509 — Method validation for the determination of inorganic arsenic in seaweed using HPLC-ICP-MS <i>Ying Ying Low, Malaysia Hairul Nizwan Bin Ab Manap</i>
S1-PP11	1495 — A comparative study of open and closed vessel acid digestion for heavy metal analysis using Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) <i>Madihah Binti Ahmad, Malaysia</i>
S1-PP12	1529 — A study on the occurrence of genetically modified maize and soybean: An overview at the Department of Chemistry Malaysia <i>Izyan Fartini Md Zuri, Malaysia</i>
S1-PP13	1953 — Analysis of sugar content in ready-to-drink sugar-sweetened beverages using UHPLC-ELSD <i>Poh Ling Loo, Malaysia Muhamad Shafudin Saad, Lailatul Nazira Topani, Mohd Irwan Wahab, Norfadila Binti Mohammad</i>
S1-PP14	1123 — Polymer-modified electrodes for the electroanalysis of trace metal ions and nitrites in water and food samples <i>Modou Fall, Senegal Ismaila Diédhiou, Momath Lô, Noureddine Raouafi</i>
S1-PP15	2153 — Comparison of HCl:HNO ₃ composition in the destruction of Pb and Cu in the surface sediment of the mangrove forest of the Muara Nusa Dua Reservoir <i>Irdhawati, Indonesia I Nengah Simpen, Maria Goreti Ling</i>
S1-PP16	1636 — Risk analysis of heavy metal contamination on public health in the aquatic area of the Citarum River, West Java province, Indonesia <i>Satriani Aga Pasma, Indonesia Retno Wulandari, Muhyatun Santoso</i>
S1-PP17	2105 — Advancing biodegradable polymer fiber production with melt electrospinning <i>Yejin Lee, Korea, Rep. Yun Hyeong Lee, Byung Kwon Kim</i>
S1-PP18	1410 — Are ecstasy still MDMA: The contents of ecstasy tablets seized in Penang state, Malaysia <i>Choon Hiang Ng, Malaysia</i>
S1-PP19	1452 — Are these metal objects from space? A case study of forensic analysis of metal fragments <i>Farah Ad Din Nordin, Malaysia Saiful Fazamil Mohd Ali, Mohd Izuan Othman</i>

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Cluster I – Analytical & Forensic	
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S1-PP20	1418 — Forensic challenges in paternity testing: A case of molar pregnancy <i>Mohammad Azhar Mat Zin, Malaysia Muhamad Sufiyan Bin Azah, Mohd Shafizi Bin Ab Aziz</i>
S1-PP21	1445 — Forensic characterization of metallic evidence: A comparative study of XRF and SEM-EDX techniques <i>Syed Fariq Fathullah Syed Yaacob, Malaysia Ahmad Zaeri Latahir, Chong Kah Wai, Rusyidah Abdul Rahim</i>
S1-PP22	1501 — Development and evaluation of portable NIR technology for the identification of cannabinoids in plant materials <i>Hazirah Hasim, Malaysia Vanitha Kunalan, Rosman Bawok, Nor Vickneswary</i>
S1-PP23	1504 — Optimizing automated DNA extraction and purification for forensic samples using the EZ1&2 DNA Investigator Kit on the EZ2 Connect Fx with the casework trace protocol <i>Dayang Zarifah Atailah Binti Awang Aemeran, Malaysia Normazlina Zainudin, Nur Fadzlina Yahaya, Faten Najah Mohd Kassim, Mahzan Md Tab, Siti Hajar Hussin, Nor Aidora Saedon</i>
S1-PP24	1526 — Handheld FTIR unmasks simethicone and polydimethylsiloxane in illegal breast fillers <i>Siti Fairuz Rosli, Malaysia Zul Helmi Salleh, Mohamad Shazrul Izzuan Azami, Sharmilah Kuppusami</i>
S1-PP25	1534 — Abandoned fetal remains: A case study on forensic DNA profiling <i>Allia Shahril, Malaysia Hasnulhadi Abdullah, Mohd Nazwantul Idlan Mohammad Rushle, Hazwani Hapiz, Siti Hajar Hussin</i>
S1-PP26	1528 — Differentiation of erasable inks in forensic questioned document examination: A pilot study <i>Chee Hau Teo, Malaysia Nurul Atiqah Mohd Noh, Siti Nur Musliha Mohamad Noor</i>
S1-PP27	1545 — A comparative infrared (IR) spectral analysis of Honda and Perodua automotive paint samples <i>Kah Wai Chong, Malaysia Farah Ad Din Binti Nordin, Rusyidah Binti Abdul Rahim</i>
S1-PP28	1384 — The sampling location of polymer-bonded explosive traces <i>Viktoryia Varabyova, Belarus Daria Danilova</i>
S1-PP29	1383 — GC-MS method for assessing the distribution of 2,4,6-trinitrotoluene residues after explosion <i>Daria Danilova, Belarus Viktoryia Varabyova</i>
S1-PP30	2393 — Automated sample preparation of opioids in blood and urine samples for the determination by Liquid Chromatography Tandem-Mass Spectrometry (LC-MS/MS) <i>Sharmilah Kuppusami, Malaysia Zul Helmi Salleh, Nor Azmi Abd Karim</i>
S1-PP31	1633 — Investigating solubility and stability in developing standard gas mixtures for insulating oil applications <i>Hadi Fauzi, Malaysia</i>
S1-PP32	1655 — Determination of biogenic amines (cadaverine, putrescine, tyramine, histamine) in milk and wine using High-Performance Liquid Chromatography (HPLC) <i>Anna Salimova, Russian Federation</i>
S1-PP33	2021 — Persistence of cyromazine, tebuconazole and trifloxystrobin residues in red shallot leaves (<i>Allium cepa</i> var. <i>aggregatum</i>) <i>Christine Jinang, Malaysia Lai Lee San, Jisia Jimbau, Ngan Chai Keong, Margaret Abat, Maclin Dayod</i>
S1-PP34	1557 — Development and validation of an analytical method for monitoring Polycyclic Aromatic Hydrocarbons (PAHS) and fat content in cacao mass (<i>Philippine Tablea</i>) <i>Jannelle Cristobal, Philippines Charita S. Kwan, Benelyn D. Dumelod</i>
S1-PP35	2078 — Classification of kimchi consumed in South Korea by country of origin using <i>k</i> -Nearest Neighbors based on elemental composition <i>Yonghoon Lee, Korea, Rep.</i>
S1-PP36	2101 — Estimation of total phenolic content and total carbonyl compounds for identifying natural rubber sheet smuggling into Thailand <i>Orapan Apirakkan, Thailand Neungrutai Saesaengseerung, Orasa Onjun</i>
S1-PP37	2780 — Quantification of chloride inhibition of oxygen reduction in bilirubin oxidases using protein film electrochemistry <i>Amirah Kamaruddin, Malaysia</i>

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S1-PP38	2758 — Development of optical and electrochemical sensors and biosensors utilizing bis-neocuproin copper (II) complex (cuprac) and its biotechnological applications <i>Selen Ayaz, Turkiye</i>

Cluster I – Cheminformatics

Poster ID	Abstract ID — Title & Author
S1-PP39	1296 — Interpretable infrared spectra prediction models based on structural neighboring mechanism <i>Chengchun Liu, China / Fanyang Mo</i>
S1-PP40	1346 — Multimodal learning in synthetic chemistry applications: Gas chromatography retention time prediction and isomer separation optimization <i>Jinglong Lin, China / Fanyang Mo</i>
S1-PP41	1482 — Evaluation of the therapeutic potential of a novel curcumin analogs for drug-resistant head and neck squamous carcinoma by targeting PLAU/TREM2/TNC signaling hub <i>Azizah Nur, Indonesia / Ritmaleni, Rumiya, Alexander T.H Wu</i>
S1-PP42	1477 — Deepmass: Unknown compound annotation using semantic mass spectral similarity and chemical space localization <i>Hongchao Ji, China</i>

Cluster I – Education and Public Understanding

Poster ID	Abstract ID — Title & Author
S1-PP43	1486 — Bringing a chemist's perspective and expertise to policy spaces in the United States <i>Annabelle Lolinco, United States</i>
S1-PP44	1522 — Fostering sustainable development awareness through systems thinking-informed small-scale chemistry experiments in high school education <i>Thanh Vinh Le, Vietnam</i>
S1-PP45	1618 — Applying systems thinking to develop a sustainable heavy metal wastewater treatment process <i>Phuc Nguyen, Vietnam / Tran Thao Phuong, Tran Nguyen Hoang Long, Mai Thi Phuong</i>
S1-PP46	1305 — An inquiry-based learning activity of optical rotation using a 3D-printed polarimeter <i>Kong Ching Wong, Hong Kong, China / Ip Chun Wai, Ng Wang Hei</i>
S1-PP47	1551 — Cultivating systems thinking using the sustainability compass: A case study on grade 12 chemistry topics in Vietnam education curriculum <i>Tai Nguyen Minh, Vietnam</i>
S1-PP48	1388 — Trends in the outcomes of studying chemistry disciplines at a university with a non-chemistry major <i>Judita Lidiková, Slovak Republic / Natália Čeryová, Janette Musilová</i>
S1-PP49	2486 — Cultivating scientific inquiry in youth through high school research conferences <i>Rajesh Pandit, Nepal / Rameshwar Adhikari, Om Prakash Basyal, Jaya Ram Ghimire, Elina Maharjan, Prasamsa Panta, Num Kant Parajuli, Manish Man Shrestha, Nelson Rai, Umesh Subedi, Dikshya Suwal, Umesh Thapa</i>

Cluster I – Environmental

Poster ID	Abstract ID — Title & Author
S1-PP50	683 — Insight into the effect of EDTA on photocatalytic performance of bismuth-based materials <i>Qiaofeng Han, China</i>
S1-PP51	964 — Novel phosphotungstic acid modified activated carbon derived from palm biomass for removal of organic dyes from wastewater <i>Abdullah Aldawsari, Saudi Arabia</i>
S1-PP52	1100 — Ultra-thin FeCo(OH) _x precursor-derived co-doped Fe ₃ O ₄ nanoparticles on N-doped graphene as highly stable oxygen electrocatalyst <i>Sunglun Kwon, Korea, Rep.</i>

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Cluster I – Environmental	
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S1-PP53	1712 — Costs and human health effects of deploying carbon capture and storage in the US electric power sector <i>Wilson Mcneil, United States Chelsea Preble, Robert Harley, Corinne D. Scown</i>
S1-PP54	1243 — In silico binding affinity analysis of PCBS with TCE reductive dehalogenase from sulfurospirillum multivorans <i>Alexandrea Beatriz Manangan, Philippines Nelson R. Villarante, Junie B. Billones</i>
S1-PP55	1368 — Role of thermal adaptation behaviors on the characteristics and respiratory disposition of indoor airborne microplastic <i>Chien Cheng Jung, Taiwan, China Pei Wei Yeh</i>
S1-PP56	1539 — Valorization of biochar and cow dung for hydrocarbon remediation: Implications for carbon sequestration and sustainable soil restoration <i>Paschal Okiroro Iniaghe, Nigeria Faustina Onyeyirichi Iniaghe, Godswill Okeoghene Tesi, Wisdom Ivwurie</i>
S1-PP57	1541 — Multifunctional signal tracer-mediated immunosensors: Rational designs and sensing applications <i>Shaomin Shuang, China Jianyang Feng, Chuan Dong</i>
S1-PP58	1573 — Enhanced hepatic metabolic perturbation of polystyrene nanoplastics by UV irradiation-induced hydroxyl radical generation <i>Peili Huang, China Juan Li</i>
S1-PP59	1024 — Sewage sludge as alternative substrate for biochar production aimed at CO ₂ capture <i>Sandro Froehner, Brazil Miguel Aisse, Marcos Capitoline Barros Filho, Marcelo Errera</i>
S1-PP60	1503 — Solvent extraction separation of cobalt-iron binary systems in nitric acid media using trialkylamine extractants <i>Bo Zhang, China Ding Ding</i>
S1-PP61	1336 — Substituent effects in benzoyl thiourea-based chemosensors for selective copper (II) ion detection <i>Hua Yong Goh, Malaysia Ming Yueh Tan, Siew San Tan</i>
S1-PP62	1481 — Dispersant-assisted volume reduction of radiocesium-contaminated soil <i>Zinnat Ara Begum, Japan Rashedul Islam Ripon, Iqbal Hossain, Abhijit Barua, Ismail M.M. Rahman</i>
S1-PP63	1483 — Selective separation of radiostrontium from contaminated water using a crown ether-functionalized mesoporous silica sorbent <i>Ismail Md. Mofizur Rahman, Japan Rashedul Islam Ripon, Iqbal Hossain, Abhijit Barua, Zinnat A. Begum</i>
S1-PP64	1535 — Efficient organic solvent nanofiltration membrane for molecular sieving <i>Hilal Ahmad, Saudi Arabia</i>
S1-PP65	1276 — Assessment of organochlorine pesticide residues in agricultural soils of southern Nigeria and analysis of potential health risks <i>Akwaowo Imoh Inyangudoh, Nigeria</i>
S1-PP66	2771 — Highly efficient dye removal from wastewater using banana stem activated carbon and alum in a synergistic adsorption-coagulation system <i>Marina Mokhtar, Malaysia Anis Syazwani Salimi, Norain Isa, Nur Fadzeelah Abu Kassim, Nor Aziyah Bakhari</i>
S1-PP67	2529 — Selective hydrogenation of CO ₂ to light olefins using alkaline-promoted iron catalysts <i>Babar Ali, Saudi Arabia Khalid Alhooshani, Saheed Adewale Ganiyu</i>
Cluster I - Green Chemistry	
Poster ID	Abstract ID — Title & Author
S1-PP68	2425 — Green synthesis of copper (II) oxide nanoparticles (CuO-NPs) by using a mixture of fermented rabbit urine and golden apple snail as reducing agent <i>Nurul Izza Taib, Malaysia Saiyidah Nafisah Hashim</i>
S1-PP69	1864 — Electrogenated base driven transfer hydrogenation reaction of aromatic ketones <i>Huan Wang, China Hao Xu, Haihong Wu, Jiaying Lu</i>

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Cluster I - Green Chemistry	
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S1-PP70	1810 — Functionalization of biofilms with antioxidant extracts from olive leaves using glycerol-based green solvents <i>Emilio Jose Gonzalez, Spain / Ana Lafuente, Jaime Tiemblo, Marina P. Arrieta</i>
S1-PP71	1809 — Characterization of green supramolecular solvents and their potential as extraction solvents in biorefinery <i>Maria Gonzalez Miquel, Spain / Andrea Sanchez Monedero, Ismael Diaz, Manuel Rodriguez</i>
S1-PP72	1853 — Rapid synthesis of metal-organic framework <i>Rachel Yie Hang Tan, Malaysia / Lee Choy Sin, Wong Shew Fung, Liew Yun Khoo</i>
S1-PP73	1951 — Zn-MOFs: Synthesis, characterisation and hemocompatibility test <i>Bing Wei Chua, Malaysia / Choy Sin Lee, Mallikarjuna Rao Pichika, Wen Huei Lim</i>
S1-PP74	2135 — Efficient aromatic C–H bond oxygenation with oxoammonium salt <i>Zeyu Wen, China / Wang, Yongtao, Yao, Jia, Li, Haoran</i>
S1-PP75	2030 — Synthesis of bio polyols for rigid sandwich panel applications <i>Bilgehan Guzel, Turkiye / Orhan Kahveci, Sinem Tümüç, Erdem Delil</i>
S1-PP76	2107 — Direct growth and post-treatments of ZIF-67 on carbon paper for high-performance electrocatalysis <i>Anh Nguyen, Vietnam / Hyojong Yoo</i>
S1-PP77	2116 — High-capacitance supercapacitor electrodes based on NiCoAl-LDH/graphene aerogel <i>Yebin Park, Korea, Rep. / Hyojong Yoo</i>
S1-PP78	2113 — Zinc-based coordination polymer particle-derived bimetal-nitrogen-carbon for rechargeable zinc-air battery <i>Chaeyeon Kang, Korea, Rep. / Hyojong Yoo</i>
S1-PP79	2120 — Gold nanoparticles decorated graphene aerogel for an excellent glucose-oxidase-like catalytic and stable electrode of glucose biofuel cells <i>Cao Thang Doan, Korea, Rep. / Hyojong Yoo</i>
S1-PP80	2141 — Sustainable textile circularity: Optimizing dye removal for cotton fiber regeneration <i>Bego Gonzalez, Spain / Martinez Rico, O, Dominguez, A</i>
S1-PP81	2452 — Ion-exchange mediated photochemical production of ultrahigh loading single-atom catalysts <i>Yucong Huang, China / Chen Zhongxin</i>
S1-PP82	2455 — Solid-phase upcycling toward the production of ultrahigh-loading single-atom catalysts <i>Guanwu Lian, China / Chen Zhongxin</i>
S1-PP83	2222 — Impactive: European mechanochemists develop greener pharmaceuticals <i>Evelina Colacino, France / Juan José Sáenz De La Torre, Leyre Flamarique, Fernando Gomollon Bel</i>
S1-PP84	2032 — High-entropy nanomaterials for electrocatalytic water splitting <i>Zhenlong Wang, China</i>
S1-PP85	2049 — Carbon-encapsulated Fe nanoparticles in Fe–N–C electrocatalysts for efficient oxygen reduction reaction <i>Gaoyuan Huang, China / Hai Bin Zhu</i>
S1-PP86	1939 — Near Infrared Reflectance Spectroscopy (NIRS) for simultaneous evaluation of soil properties <i>Syazwani Bakar, Malaysia / Irna Syairina Binti Sahari, Margaret Anak Abat</i>
S1-PP87	2485 — An alternative approach to the plant protection with the use of novel ionic derivatives of salicylic acid and benzothiadiazole <i>Maciej Szychalski, Poland / Rafał Kukawka, Artur Strzeliński, Zuzanna Sawinska, Agnieszka Kiniec, Renata Gaj, Marcin Smiglak</i>
S1-PP88	1946 — Prediction of nutrients and proximate compositions in agricultural crops using near infrared reflectance spectroscopy <i>Irna Syairina Binti Sahari, Malaysia / Margaret Abat, Syazwani Bakar</i>

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S1-PP89	2429 — Enhanced hydrogen production via formic acid dehydrogenation using trimetallic PdNiCo nanoparticles encapsulated in MOFs <i>Norliza Dzakaria, Malaysia Noor Hayati Ridhwan, Najihah Syahbudin, Muhammad Shafie Norhisham, Nurul Auni Zainal Abidin, Azizul Hakim, Arrozi, U. S. Fd</i>
S1-PP90	2555 — Doping of Zn into CeO ₂ nanorod an efficient catalyst for the CO ₂ carbonylation with amine reaction <i>Nagendra Kulal, Saudi Arabia</i>
S1-PP91	2782 — Hydrogen-free deoxygenation of microalgae oil to produce sustainable aviation fuel <i>Wei Chun Tung, Malaysia Wai Kit Tang, Joon Ching Juan</i>
S1-PP92	2783 — Mitigating absolute humidity challenges in ambient-processed CsPbI ₃ perovskite solar cells: Triphenylphosphine-based additives for tropical climates <i>Whui Dhong Wong, Malaysia Bao Lee Phoon, Joon Ching Juan, Lai Chin Wei, Nurhidayatullaili Muhd Julkapli</i>
Cluster I - Human Health & Well Being	
Poster ID	Abstract ID — Title & Author
S1-PP93	1704 — Preliminary study of elemental analysis of illicit tobacco products from selected countries <i>Ujang Tinggi, Australia Mark Myerson, Madeleine Farrell, Taylor Sillcock, Jim Carter, Stephen Finlayson, Bruce Morton</i>
S1-PP94	1073 — Synthesis, antitrypanosomal activity, ADME and DNA binding of benzothiazole amidoximes and arylimidamides <i>Silvana Raić Malić, Croatia Valentina Rep Kaulić, Martina Piškor, Sanja Koštrun, Astrid Milić, Marijana Radić Stojković, Amanda Fortes Francisco, Martin C. Taylor, John M. Kelly</i>
S1-PP95	1971 — Kratom alkaloids: Blood-brain and intestinal barrier interactions <i>Nur Aziah Hanapi, Malaysia Nelson Jeng Yeou Chear, Siti Rafidah Yusof</i>
S1-PP96	2273 — Design, synthesis and mechanistic studies of benzimidazoles as a novel class of therapeutics against drug-resistant oral cancer cells <i>Keng Yoon Yeong, Malaysia Wai Leng Lee, Hock Siew Tan</i>
S1-PP97	2300 — Dietary supplementation with <i>Eucheuma denticulatum</i> alters plasma metabolites in high-fat diet-fed rats: An NMR-based metabolomic study <i>B Vimala Rmt Balasubramaniam, Malaysia Mohd Naeem Bin Mohd Naw, Siti Khadijah Binti Abdul Khalid</i>
S1-PP98	2406 — Two new limonoids from <i>Carapa procera</i> seeds and their antimicrobial activity <i>Matar Seck, Senegal Moussa Ndao, Samba Fama Ndoeye, Ismaila Ciss, Seynabou Sokhna, Lalla Aicha Ba, Insa Seck, Mehdi Beniddird</i>
S1-PP99	1808 — Development of a novel fluorescent probe for the sensitive detection of glutathione in biological fluids <i>Ali Alqarni, Saudi Arabia Hamdi Mohamed, Ashraf M. Mahmoud, Al Montaser Bellah H. Alib</i>
S1-PP100	2018 — Design, synthesis, and biological evaluation of novel trifluoromethylated imidazonaphthyridine derivatives as potential antimicrobial agents <i>Siew Fang Wong, Malaysia Goh Joo Kheng, Koh Zhan Ning</i>
S1-PP101	2772 — Neuroprotective properties of plant-derived bioactive compounds: A bibliometric analysis <i>Nor Aziyah Bakhari, Malaysia Nor Aimi Abdul Wahab, Ainorkhilah Mahmood, Nur Iwani Nor Izaham, Marina Mokhtar, Suhaiza Hasan</i>
Cluster I - Inorganic & Bioinorganic	
Poster ID	Abstract ID — Title & Author
S1-PP102	1567 — Photosensitising agents for antibacterial and anticancer treatment: Ruthenium polypyridyl/Schiff base complexes <i>Kuan Teng Tan, Malaysia Ke Hui Lee, Pei Yi Tan, Wei Meng Lim, Yun Khoon Liew, Chun Wai Mai, Lai Chun Wong, May Lee Low</i>

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S1-PP103	1933 — Synthesis, characterization and antitumoral activity in ovarian cancer cells of new gold(I) complexes <i>Adam Ahmed Abdallah Sulaiman, Saudi Arabia Naike Casagrande, Cinzia Borghese, Donatella Aldinucci, Anvarhusein A. Isab</i>
S1-PP104	2209 — Synthesis, structural characterization, and catalytic performance of Pd(II) complexes with fluorine and methyl-substituted Schiff bases: Experimental and theoretical insights <i>Shahrul Nizam Ahmad, Malaysia Amalina Mohd Tajuddin, Nova Pratiwi Indriyani, Aditya Wibawa Sakti, Nor Mas Mira Abd Rahman, Nor Saadah Mohd Yusof</i>
S1-PP105	1271 — General synthesis of oxides/oxides interfaced spheres for solar H ₂ fuel <i>Muhammad Waqas, Saudi Arabia</i>
S1-PP106	1590 — Implications of symmetry and orientation of naphthyl substituents of metallosalen and salpn-based naphthalene complexes in their CO ₂ electroreduction capabilities <i>Dalice Marie Pinero Cruz, Puerto Rico Christopher A. Samaniego Rodriguez, Darién O. Kercado Colón, Jemily Acosta Mercado, Javier O. Rivera Reyes, Alanys V. Luna Ramírez, Yomaira Pagán Torres, Miguel Sepúlveda Pagán, John Paul Jones</i>
S1-PP107	1725 — Ring opening polymerization of rac-lactide by transition metal complexes ligated by aminomethylquinoline derived ligands <i>Hyosun Lee, Korea, Rep.</i>
S1-PP108	1861 — Suzuki coupling of twisted amides: An effective Pd precatalyst strategy <i>Yu Hsiang Liu, Taiwan, China</i>
S1-PP109	2029 — Synthesis and characterization of bis(imino)acenaphthene ligands bearing various fluorenyl substitution <i>Bilgehan Guzel, Turkiye Burcu Darendeli, Elif Torun, Nora Ahmed</i>
S1-PP110	2502 — Chelating “carbonyl” ligands: Synthesis, metal coordination and reactivity study <i>Bamlaku Semagne Aweke, Taiwan, China Wen Ching Chen, Glenn P.A. Yap, Lili Zhao, Tiow Gan Ong</i>
S1-PP111	2505 — Synthesis and characterization of chiral binap-carbonyl metal complexes and their application in catalysis <i>Yingyu Chen, Taiwan, China He Xin Xiao, Wen Ching Chen, Tiow Gan Ong</i>
S1-PP112	2506 — Isolated carbon(I) species featuring a carbonyl cation radical <i>Hexin Xiao, Taiwan, China Yi Chen Chan, Tiow Gan Ong</i>
S1-PP113	2508 — A versatile carbodicyclobutene precursor: Exploring coordination and reactivity with transition metals and main group elements <i>Zhexin Wu, Taiwan, China Jiun Shian Shen, Glenn P. A. Yap, Tiow Gan Ong</i>
S1-PP114	2512 — Palladium and iridium: Carbodicyclobutene complexes: Formation and unexpected reaction selectivities <i>Min Xuan Zhang, Taiwan, China Jiun Shian Shen, Zhe Xin Wu, Wen Ching Chen, Chen Hsun Hung, Glenn P. A. Yap, Tiow Gan Ong</i>
S1-PP115	2513 — Isolable two-coordinate germanium (II) di-cation <i>Yinzhi Weng, Taiwan, China Bamlaku Semagne Aweke, Lei Qin, Lili Zhao, Tiow Gan Ong, Glenn P. A. Yap</i>
S1-PP116	2560 — Hidden frustrated Lewis pairs based on carbodicyclobutene-borane complexes <i>Pohung Huang, Taiwan, China Geetanjali S. Sontakke, Jiun Shian Shen, Yin Zhi Weng, Bamlaku Semagne Aweke, Glenn P. A. Yap, Tiow Gan Ong</i>
S1-PP117	2327 — Hydrophobic modification of SBA-15 with encapsulated In ₂ O ₃ catalyst: Enhanced CO ₂ -to-methanol conversion efficiency <i>Heng Zhang, China Dongfang, Wu</i>
S1-PP118	2509 — Coupling with heteroarene and arene via Ni-catalyzed C–H/C–OH activation <i>Sinyu Chen, Taiwan, China Ting Hsuan Wang, Tiow Gan Ong, Chen Hsun Hung</i>
S1-PP119	2503 — Mechanistic study of nickel-catalyzed carbon-oxygen bonds arylation reaction of heteroaryl ethers <i>Jiun Shian Shen, Taiwan, China Ting Hsuan Wang, Ping Yu Chen, Lili Zhao, Tiow Gan Ong</i>
S1-PP120	2504 — Machine learning-guided monodentate ligand map with electronic and steric features and its application in catalysis <i>Chen Hsun Hung, Taiwan, China Tiow Gan Ong</i>

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S1-PP121	1365 — Exploring histatins: The relationship between the coordination chemistry and antimicrobial activity <i>Emilia Dzien, Poland Joanna Watly, Daniela Valensin, Miquel Adrover, Agnieszka Matera Witkiewicz, Magdalena Rowinska Zyrek</i>
S1-PP122	1475 — Trimetallic palladium-based catalyst supported on Schiff base conjugated graphitic carbon nitride in hydrogen gas generation <i>Ai Ling Koh, Malaysia Ming Yueh Tan, Siew San Tan, Abdulkareem G. Al Sultan, Nurul Asikin Mijan, Yun Hin Taufiq Yap</i>
S1-PP123	2278 — Synthesis of ZSM-5 zeolite from Padma River sand as an alternative source of silica <i>Abul Kalam Md Lutfor Rahman, Bangladesh Aparna Sarker, Robayath Jahan Rabeya, Nasrin Akter Nadi</i>
S1-PP124	2557 — Hydrogenolysis of xylitol to alcohols and diols over nickel supported on mixed metal oxides <i>Mzamo Shoji, South Africa Vuyolwethu Ndabankulu, Alisa Govender, Holger Friedrich</i>
S1-PP125	2129 — Tailoring calcium content and bioactivity in SiO ₂ -CaO mesoporous bioactive glass nanoparticles for bone tissue engineering <i>Ekarat Meechoowas, Thailand Usanee Pantulap, Phitsamai Kamonpha, Savarin Sinaviwat, Sureerat Yodthuan, Nuttawan Sawangboon</i>
S1-PP126	1244 — Catalytic oxidation over iron incorporated mesoporous molecular sieves (Fe-JLU-15) <i>Khalida Chellal, Algeria Bachari Khaldoun, Sadi Farida</i>
S1-PP127	2769 — Performance analysis of GLDA and HEDTA as chelators for calcium and ferrum ions at 80 °C <i>Karimah Kassim, Malaysia Ahmad Shalabi Md Sauri, Emily S Majanun, Mohd Fazli Mohamat, Najmiddin Yaakob, Muhamad Kamil Yaakob, Ahmad Zahir Hafiz, Farhana Jaafar Azuddin</i>
Cluster I - Organic & Biomolecular	
Poster ID	Abstract ID — Title & Author
S1-PP128	1685 — Rylenediimide-triazinyl radicals: Initial study <i>Georgia Zissimou, Cyprus Christos P. Constantinides, Daniel B. Lawson, Panayiotis A. Koutentis</i>
S1-PP129	1732 — Synthetic strategies to bioactive β -carboline <i>Ahmad Saifuddin Mohamad Arshad, Malaysia Nur Aziah Hanapi, Mohd Nizam Mordi</i>
S1-PP130	2190 — Synthesis of luminescent α,β -unsaturated oxadiazoles: Determination of their photophysical properties <i>Eugenio Hernandez Fernandez, Mexico Zuleyma Martínez Campos, Susana T. López Cortina, Israel López, Mónica E. Anaya Tamez, David J. Michaelis</i>
S1-PP131	2094 — Discovery of novel pyridine derivatives as a potential herbicide <i>Soyoung Lee, Korea, Rep.</i>
S1-PP132	1838 — Ligand-free CuCl-catalyzed N-arylation of 1,2,4-triazole with aryl bromides <i>Yong Chua Teo, Singapore Ang Wei Zhi, Chloe Low Kah Yee</i>
S1-PP133	1866 — Potential of chloroalkene as peptide bond isostere <i>Tetsuo Narumi, Japan Mio Takeda, Sayuri Takeo, Chihiro Iio, Ai Sakakibara</i>
S1-PP134	2031 — A simple molecular design strategy for red multiple resonance emitters <i>Haowen Chen, China</i>
S1-PP135	1950 — Synthesis and evaluation of 1,4-naphthoquinone derivatives as DNA intercalating agents <i>Nadezhda Danilenko, Russian Federation Andrei I. Khlebnikov</i>
S1-PP136	2072 — Exploring the influence of electronic effects on the reactivity of pentafulvenes <i>Manisha Hota, Australia Emma Keller, Todd Gillam, Chris Blencowe, Anton Blencowe</i>
S1-PP137	2080 — Shuttling motion of stimulus-responsive rotaxanes with steric barriers on the axial component <i>Masahiro Muraoka, Japan Hiroyuki Yoshimitsu, Shintaro Kawano, Motohiro Shizuma</i>
S1-PP138	2092 — Self-assembled nanoparticles: A strategy to overcome the pharmacokinetic limitations of peptide therapeutics <i>Hyunsuk Hwang, Korea, Rep.</i>

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Cluster I - Organic & Biomolecular	
Poster ID	Abstract ID — Title & Author
S1-PP139	2091 — Self-adjusting α -helical peptides assembly for mRNA nanotube formation and magnetic control of α -helical peptide assembly and disassembly <i>Zhihao Zhang, Korea, Rep.</i>
S1-PP140	2112 — Rh (III)-catalyzed C(sp ²)-H activation/annulation for the construction of pyrimidinyl-incorporated pyrrolo[3,4- <i>b</i>]indoleiones <i>Yong Rok Lee, Korea, Rep. Muhammad Saeed Akhtar, Mohammad Aslam, Sonaimuthu Mohandoss</i>
S1-PP141	2214 — Peptide synthesis in aquaculture: IL-8 derivatives for pathogen control in salmon farming <i>Paula Santana, Chile Constanza Guzmán, Nicolás Galleguillos, David Ramírez, Fanny Guzman</i>
S1-PP142	2673 — Desymmetrization of cyclohexadienones through phase-transfer catalyzed stereoselective intramolecular aza-Michael addition with chiral sulfinamide nucleophiles <i>Bing Syuan Wu, Taiwan, China Tiow Gan Ong, Cheng Che Tsai</i>
S1-PP143	2376 — Stereodivergence in chalcogen and hydrogen bond-based organocatalysis <i>Tomas Hodik, Czechia</i>
S1-PP144	1644 — Synthesis of 2,4,5-trisubstituted oxazoles from copper-mediated benzylic sp ³ C-H aerobic oxidative annulation of ketones and amines via a cascade reaction <i>Vineet Jeena, South Africa</i>
S1-PP145	1925 — Synthesis and study of some physicochemical characteristics of new 1,8-naphthalimide-conjugated hemorphin analogs <i>Petar Todorov, Bulgaria Stela Georgieva, Jana Tchekalarova</i>
S1-PP146	2641 — Exploring pyrazolone azomethine analogues: Synthesis, X-ray crystallography, biological evaluation, and in silico studies <i>Mohammad Sayed Alam, Bangladesh Junaid uddin Ahmed</i>
Cluster I – Polymer & Materials	
Poster ID	Abstract ID — Title & Author
S1-PP147	1820 — Dynamic crosslinking of commodity thermoplastics to create recyclable thermosets via perfluorophenyl nitrene C-H insertion <i>Zhi Yuan Lee, Singapore</i>
S1-PP148	1823 — Efficient near-infrared upconversion organic light-emitting diodes <i>Yingli Shi, China</i>
S1-PP149	1841 — Development of ionic-conductive hydrogels for wearable sensors: Exploring cation effects and their impact on performance <i>Mei Yu Yeh, Taiwan, China Dian Huan Ji</i>
S1-PP150	1854 — Chirality-guided design and self-assembly of supramolecular hydrogels <i>Hsin Chieh Lin, Taiwan, China</i>
S1-PP151	1896 — Development of a paper-based microfluidic device for colorimetric detection of lead ions <i>Sopharen Houn, Cambodia</i>
S1-PP152	1912 — Phase behavior modulation of lamellar surfactant aggregates for surface modifications <i>Rui A Goncalves, Singapore</i>
S1-PP153	1998 — Development of transparent substrates with imprinted patterns for stretchable electronics <i>Byungwook Yoo, Korea, Rep. Chul Jong Han, Min Jae Sung</i>
S1-PP154	2574 — Inhibitive effect of tridentate hydrazone ligands towards corrosion of mild steel in 3.5% NaCl solution saturated with CO ₂ <i>Amalina Mohd Tajuddin, Malaysia Balqis Auni Badrul Hisyam, Zainiharyati Mohd Zain, Nurul Fazlina Edayah Rasol, Noor Asnida Asli</i>
S1-PP155	2252 — Interactions at material-biofilm interfaces: Preliminary synchrotron-based studies for next-generation living coating systems <i>Wojciech Pajerski, Slovenia Katarzyna M. Sowa, Pawel Korecki, Pawel Wrobel, Tomasz Kolodziej, Faksawat Poohphajai, Anna Sandak</i>

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Cluster I – Polymer & Materials	
Poster ID	Abstract ID — Title & Author
S1-PP156	2253 — Green strategies for next-generation coating systems: Microbial approaches at material interfaces <i>Wojciech Pajerski, Slovenia Anja černoša, Ana Gubenšek, Anna Sandak</i>
S1-PP157	2478 — High-performance polymer-based luminescent solar concentrators enabled by MDMO-PPV: Efficiency, stability, and scalability <i>Betul Canimkurbey, Turkiye Furkan Isik</i>
S1-PP158	1756 — Polysaccharide-based wound dressing with nanoflowers as a advanced biomaterials for wound therapy <i>Dorota Chelminiak Dudkiewicz, Poland Miloslav Machacek, Klara Konecna, Kinga Mylkie, Aleksander Smolarkiewicz Wyczachowski, Marta Ziegler Borowska</i>
S1-PP159	760 — Nanofiltration membrane for dye/salt separation <i>Xin Wang, China Ying Zhang, Shencheng Pan</i>
S1-PP160	1949 — Optimization of mucilage extraction from <i>Opuntia ficus-indica</i> for eco-friendly materials <i>Siziwe Gqoba, South Africa Ignatia Khumalo, Grace Ngubeni</i>
S1-PP161	1449 — Application of polymethylethoxysiloxane-polyethylene glycol and silica sol in ethylcellulose in cement systems as modifiers <i>Neila Bekturganova, Kazakhstan I.V. Kolesnikova, N.O. Samenova, A.S. Suvorov</i>
S1-PP162	1468 — Dye inclusion and aggregation control using stimuli-responsive copolymer with cyclodextrin hosts <i>Shintaro Kawano, Japan Jenni Lie, Masahiro Muraoka, Motohiro Shizuma</i>
S1-PP163	1407 — Effect of metal-organic framework on hydrogen volume fraction in the oxygen-rich anode catalyst layer of proton exchange membrane water electrolyzer <i>Keun Hwan Oh, Korea, Rep. Inku Kang, Won Jong Choi</i>
S1-PP164	1408 — Novel titin-inspired high-performance polyurethanes with self-healing and recyclable capacities based on dual dynamic network <i>Haopu Xie, China</i>
S1-PP165	1420 — Half-full filled aerogels with a 348% increment in energy absorption and a retained high electromagnetic shielding performance <i>Dongmei Hu, China</i>
S1-PP166	1440 — Effect of the cooling temperature on mechanical properties of PPS composites with high loading of GF for film capacitor housing <i>Seo Hwa Hong, Korea, Rep. Pyoung Chan Lee, Beom Gon Cho</i>
S1-PP167	1640 — A study on the durability of metal-composite hybrid joints fabricated using insert injection molding in automotive driving environments <i>Yeong Won Lim, Korea, Rep. Younki Ko, Jinho Park</i>
S1-PP168	1982 — Anode engineering with in-situ coated UiO-66-NH ₂ on graphite for enhanced anode performance in lithium-ion battery <i>Noor Fazriyana Hamidon, Malaysia Adam Azizi Abd Azis, Hayyiratul Fatimah Mohd Zaid, Nurul Akmaliah Dzulkurnanin, Khairulazhar Jumbri</i>
S1-PP169	2154 — Effect of molecular weight of polyethylene glycol as plasticizer on ionic conductivity of starch/LiClO ₄ solid polymer electrolyte <i>Syuhada Mohd Tahir, Malaysia</i>
S1-PP170	1438 — FRET-assisted optical waveguide based on flexible molecular crystals <i>Shotaro Hayashi, Japan</i>
S1-PP171	1311 — Synthesis of locust bean gum/titanium dioxide hydrogel nanocomposites for methylene blue removal <i>Boitumelo Motshabi, South Africa</i>
S1-PP172	1256 — Atomistic insight into photovoltaic cells via 2D heterostructure engineering <i>Poomani Govender, South Africa Francis Opoku</i>
S1-PP173	1818 — Mn(III) O ^N ^O complexes as water-tolerant and environmentally benign catalysts for polyurethane foam synthesis <i>Wei Chieh Chang, Germany Jaroslaw Mormul</i>

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Cluster I – Polymer & Materials	
Poster ID	Abstract ID — Title & Author
S1-PP174	1583 — UV-barrier poly (lactic acid) film with light-stabilised EU complexes as filler <i>Linze Liu, China / Tungalag Dong, Lijun Song, Xueyan Yun</i>
S1-PP175	1855 — Development of a natural rubber latex with palm-oil based non-isocyanate polyurethane-acrylate plasticizer <i>Ki Yan Lam, Malaysia / Choy Sin Lee, Yun Khoon Liew, Siang Yin Lee, Jia Yu Ng, Ying Hong Lim, Suvashyree A/P Rajagopal</i>
S1-PP176	2132 — Direct extraction of natural cannabinoids from hemp leaves and sustainable PLGA nanocarriers for enhanced CBD delivery <i>Sumontha Ramangkoon, Thailand</i>
S1-PP177	2185 — Repurposed dielectric-poled functional polymers for supercapacitor: A novel strategy for energy and environmental remediation <i>Priyanka Bhardwaj, India / Tridib Kumar Sinha</i>
S1-PP178	2472 — Bioactive wound dressing based on chitosan-gelatin nanofibers loaded with curcumin/ chrysin-functionalized metal-organic frameworks <i>Yoon Yee Then, Malaysia / Soo Ghee Yeoh, Norizah Abdul Rahman, Yun Khoon Liew, Wei Meng Lim, May Lee Low, Lai Chun Wong</i>
S1-PP179	2482 — Biowaste-derived composite membranes for oil/water separation <i>Nurul Amni Abdullah, Malaysia / Azizah Baharum, Rizafizah Othaman</i>
Cluster II – SDG3 Good Health & Well Being	
Poster ID	Abstract ID — Title & Author
S1-PP180	2501 — Synthesis and biological evaluation of novel coumarin derivatives bearing sulfonamide moiety as potent α -glucosidase inhibitors <i>Imran Syahrul, Malaysia</i>
S1-PP181	1101 — Phytochemicals as biopesticides for safer pest management and healthier ecosystems <i>Susanne Wiedmer, Finland / Rahim Ullah, Tehreem Ashraf, Kari Hartonen</i>
S1-PP182	1409 — Investigation of anti-diabetic potential using molecular simulation studies of dibenzylidene-cyclohexanone curcumin analogs <i>Ranti Kamila Habibie, Indonesia</i>
S1-PP183	1780 — Silica aggravates pulmonary fibrosis through disrupting lung microbiota and amino acid metabolites <i>Lin Tian, China</i>
S1-PP184	2257 — Synthesis of the chromone-thiosemicarbazone scaffold as promising α -glucosidase inhibitors: An in vitro and in silico approach toward antidiabetic drug design <i>Rima Alharthy, Saudi Arabia</i>
S1-PP185	2404 — Evaluation of the anti-HIV and anti-DENV activities of some triazenes <i>Matar Seck, Senegal / Seynabou Sokhna, Natacha M��rindol, Marie Pierre Girard, Insa Seck, Samba Fama Ndoye, Issa Samb, Marc Presset, Erwan Le Gall, Lionel Berthoux, Isabel Desgagn�� Penix</i>
S1-PP186	2304 — Synthesis, antimicrobial evaluation, ADMET prediction, molecular docking and dynamics studies of pyridine and thiophene moieties containing chalcones <i>Mohammad Mostafizur Rahman, Bangladesh / Sumita Saznin Marufa, S M Anyet Ullah Shohag, Hiroshi Nishino, Mohammad Sayed Alam, Md. Aminul Haque</i>
S1-PP187	2285 — Synthesis, antimicrobial and antioxidant evaluation with in silico studies of new thiazole Schiff base derivatives <i>Md Aminul Haque, Bangladesh / Md. Shahazada Shah, Mohammad Mostafizur Rahman, Md. Din Islam, Abdullah Al Macktuf, Junaid Uddin Ahmed, Hiroshi Nishino</i>

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Cluster II - SDG7: Affordable & Clean Energy

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S1-PP188	2474 — Engineering nanocatalysts for hydrogen evolution: A focus on structure–activity relationships <i>Nosipho Moloto, South Africa Siyabonga Nkabinde, Zakhele Ndala, Lineo Mxakaza, Victor Mashindi</i>
S1-PP189	2307 — Biodiesel additive formulation and its application <i>Noor Fitri, Indonesia Khofifah, Irfan Aditya Dharma, Nurcahyo Iman Prakoso, Qomarudin Sukri</i>

Cluster II - SDG13: Climate Action

Poster ID	Abstract ID — Title & Author
S1-PP190	1113 — Synthesis of sorbents for CO ₂ capture from construction and demolition waste as raw materials <i>Gaukhar Yergazyeva, Kazakhstan</i>
S1-PP191	727 — The ethical dimension of green chemistry: Pathways to a sustainable future <i>Mani Omprakash Srivastava, India</i>

Cluster III - Symposium on Chemical Safety and Security

Poster ID	Abstract ID — Title & Author
S1-PP192	1626 — Chlorine as a dual-use chemical: The role of chemical analysis in enhancing chemical security <i>Nurhazlina Hamzah, Malaysia</i>
S1-PP193	827 — Enhancing chemical security infrastructure at Benue State University, Makurdi, Nigeria <i>Linus Aposu, Nigeria</i>
S1-PP194	1489 — Responsible care and nicer globe driving excellence in chemical safety and security <i>Pranav Kumar Tripathi, India</i>
S1-PP195	1226 — Biosecurity concerns in chemical research: Threats and mitigation strategies <i>Prakash Balu, India</i>
S1-PP196	1340 — Assessment of chemical safety and security knowledge in Tunisian academic and research institutions: Identifying gaps and training needs <i>Amal Rabti, Tunisia Younes Moussaoui, Ridha Ben Salem, Hatem Ben Romdhane</i>
S1-PP197	2035 — Chemical safety and security in Vietnam <i>Xuan Sinh Nguyen, Vietnam</i>

Cluster I - Human Health & Well Being

Poster ID	Abstract ID — Title & Author
S1-PP198	1890 — Pitaya-oil blend powder with two improved fatty acid ratios: Development and characterization <i>Zhi Xuan Yuo, Malaysia Thed Swee Tee</i>

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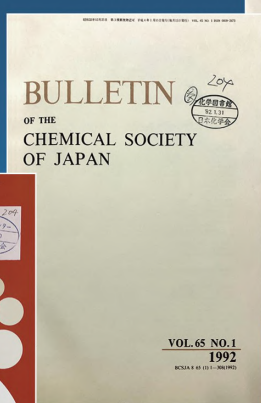
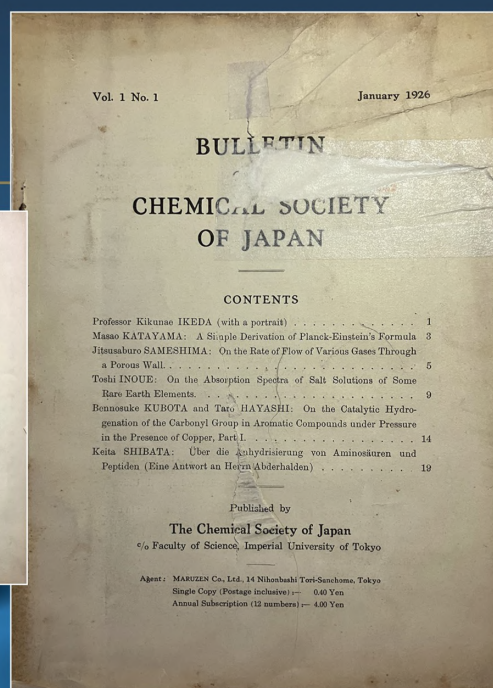
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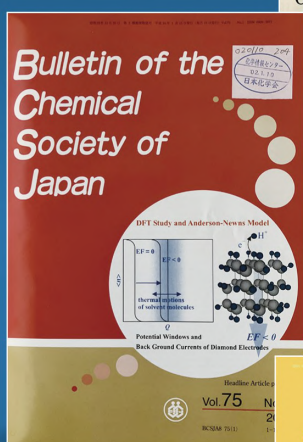
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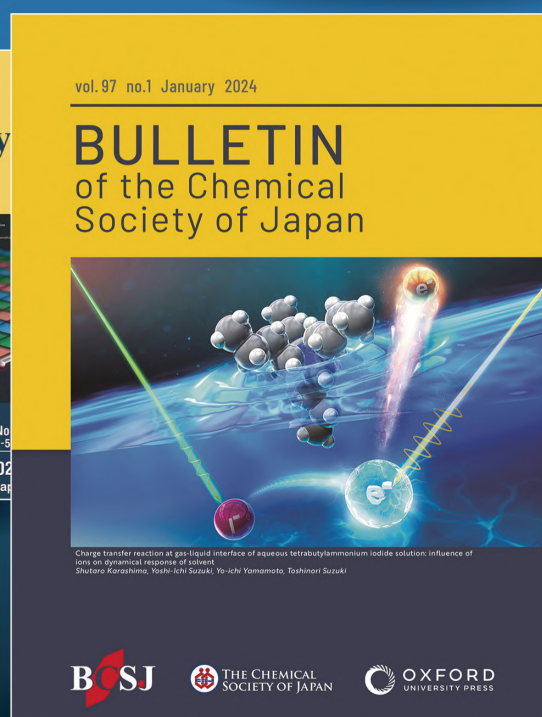
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Cluster I – Analytical & Forensic	
Poster ID	Abstract ID – Title & Author
S2-PP01	1237 – The evolution of multidisciplinary research: A journey of analytical excellence at the department of chemistry Malaysia <i>Noor Azimah Sulaiman, Malaysia Farah Idwani Abd Rahman, Fathiah Ahmad Zubaidi, Izharudin Che Amat, Wan Farah Nasuha Wan Iskandar</i>
S2-PP02	1492 – Development of surface plasmon interface excitation ion source <i>Yongyi Li, China Qian An, Zhihui Huang, Xiangyu Wang, Zhenwei Wei</i>
S2-PP03	1537 – Quantitative analysis of seven anthelmintic drugs in livestock and fishery products using LC-MS/MS <i>Miok Kim, Korea, Rep.</i>
S2-PP04	1572 – Online monitoring of interface reactions by ambient mass spectrometry <i>Na Na, China Yiyang Yin</i>
S2-PP05	2386 – Examination of photodynamic therapy by ambient mass spectrometry <i>Yiyang Yin, China Jin Ouyang, Na Na</i>
S2-PP06	2420 – Improved efficiency and time consumption for lead analysis in gasoline by XRF <i>Mohd Izzat Bin Sulaiman, Malaysia Muhammad Zaki Bin Ibrahim, Mohd Izzat Bin Sulaiman</i>
S2-PP07	1839 – Calcium nanomodulators for dual-mode cancer therapy via in situ mineralization and mitochondrial dysfunction <i>Yan Zhang, China Yingxia Miao, Zongjin Qu</i>
S2-PP08	1474 – Smart connector, innovative solution to temperature calibration <i>Norliza Abd Hamid, Malaysia</i>
S2-PP09	1426 – Sensitive xanthine detection using xanthine dehydrogenase and [Os(bpy) ₂ Cl ₂] ⁺ with low interference <i>Taeyeon Yoo, Korea, Rep.</i>
S2-PP10	1315 – Modification of BDD surface by electrochemical reduction of diazonium salts for biosensor applications <i>Peter čambal, Czechia Karmelita Hubčuková, Karolína Schwarzová Pecková</i>
S2-PP11	1448 – Boron-doped diamond nanomaterial for electroanalytical application <i>Prastika Krisma Jiwanti, Indonesia</i>
S2-PP12	1427 – Gold nanoparticle-mediated electron transfer from ammonia-borane to Ru(NH ₃) ₆ ³⁺ for highly-sensitive biosensing <i>Seong Jin Park, Korea, Rep.</i>
S2-PP13	1417 – An amperometric glucose biosensor based on nanozyme and glucose oxidase modified electrode <i>Asta Kausaite Minkstimiene, Lithuania Austėja Orintaite, Aiste Krikstaponyte, Almira Ramanaviciene</i>
S2-PP14	1424 – Highly sensitive electrochemical immuno-sensors using enzymatic precipitation of Prussian blue <i>Eunji Tak, Korea, Rep.</i>
S2-PP15	1478 – Screening synthetic cathinones mixed with instant coffee and fruit juice powder using hydrophobic carbon dot probes <i>Yao Te Yen, Taiwan, China</i>
S2-PP16	1502 – Laser-ablated nickel nanoparticles as an electrochemical platform for insulin detection <i>Renata Orinakova, Slovak Republic Ivana Šišoláková, Martin Cvek</i>
S2-PP17	1842 – Near-infrared optogenetic upconversion nanoparticle complex for high-efficiency in split-Cas9 system for gene editing <i>Yan Zhang, China Pengfei Shi, Yuqi Zhang</i>
S2-PP18	1696 – Challenges and strategies in developing electrochemical glucose biosensor based on gold nanostructures <i>Almira Ramanaviciene, Lithuania Katazyna Blazejczak, Kristina Sobol, Asta Kausaite Minkstimiene</i>
S2-PP19	1897 – Synthesis of molybdenum nitride and nickel nitride as microelectrode materials for hydrogen gas sensing <i>Saiful Arifin Shafiee, Malaysia</i>

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Cluster I – Analytical & Forensic	
Poster ID	Abstract ID – Title & Author
S2-PP20	2446 – Effect of pH on the formation of cyanide ion-curcumin colour complexes for detection of cypermethrin in treated wood <i>Tumirah Khadiran, Malaysia Nuraqilah Mardhiah Samsul Alam, Mohd Amirul Mukmin Abdullah</i>
S2-PP21	1266 – Beyond standards: The advancements in calibration at the department of chemistry Malaysia <i>Irain Bahari, Malaysia</i>
S2-PP22	2571 – In-syringe dispersive micro solid phase extraction method for aflatoxins in peanut by HPLC <i>Nor Shifa Shuib, Malaysia Bahrudin Saad</i>
S2-PP23	2587 – Colorimetric methods as green analytical chemistry tools in fuel and biofuel quality control <i>Paola Mello, Brazil Alice P. Holkem, Gabrielle Dineck Iop, Flávia Fernandes De Oliveira, Rochele Sogari Picoloto, Edson Irineu Muler, Juliano Smaniotto Barin</i>
S2-PP24	2645 – Rapid identification of antioxidants in biodegradable plastics by Surface-Assisted Laser Desorption Ionization Mass Spectrometry <i>Muyi He, China Yun Ling, Chang Wang, Minli Yang, Wei Guo</i>
S2-PP25	2657 – A covalent organic framework-coated steel substrate as a mass spectrometric ionization source for the effective enrichment and rapid detection of phthalates in beverages <i>Minli Yang, China</i>
S2-PP26	2582 – Quantification of caffeine and trigonelline in Malaysian instant coffee products using validated RP-HPLC method <i>Lai Chun Wong, Malaysia Lee Yen Mae, Cherlyn Cheng Chen Xi</i>
S2-PP27	2674 – Malaysian cocoa validation programme <i>Badrul Hisyam Zainudin, Malaysia Suzannah Sharif, Mohamed Yusof Ishak, Izzreen Ishak, Chin Hui Han</i>
S2-PP28	2001 – Determination of ceramide and sphingoid bases in cosmetic products by GC-MS with trimethylsilylation derivatization <i>Shi Ngar Pang, Malaysia Norsyariza Abd Aziz, Yee Chung Lee, Ng Khan Loon, Toh Mong Sah</i>
S2-PP29	2535 – Electrochemical detection of oxybenzone using polypyrrole-imprinted polymer modified screen-printed gold electrode <i>Mohd Azerulazree Jamilan, Malaysia Vinodhni Kanthymathynathan, Mohd Fairulnizal Md Noh, Faizatul Shimal Mehamod</i>
S2-PP30	1758 – Mid-infrared cavity ring-down spectroscopy for spectral reference data and ultra-trace detection of gas species <i>Michelle Bailey, United States Eisen C. Gross, Joseph T. Hodges, Adam J. Fleisher</i>
S2-PP31	1827 – Detection of adulterant in <i>Aloe barbadensis</i> miller gel using Fourier Transform Infrared Spectroscopy (FTIR) with chemometrics <i>Khye Er Loh, Malaysia Ghim Hock Ong</i>
S2-PP32	1921 – Aprepitant-loaded PLGA nanoparticles for lung cancer: Pharmaceutical and anti-cancer perspectives <i>A Alper Ozturk, Turkiye Elif Kaya Tilki, Selin Engür öztürk</i>
S2-PP33	2211 – Analytical evaluation of antimicrobial properties of paraprobiotic <i>Lactobacillus rhamnosus</i> for cosmeceutical applications <i>A Alper Ozturk, Turkiye Pervin Soyer</i>
S2-PP34	2356 – Geographical variation in phytochemical composition of <i>Eurycoma longifolia</i> root extracts and their anti-SARS-CoV-2 activity <i>Norazlan Mohmad Misnan, Malaysia Lam Kok Wai, Maizatul Hasyima Omar, Mohd Ridzuan Mohd Abd Razak</i>
S2-PP35	1705 – Effect of different hydrophilic lipophilic balance value on stability of Sacha inchi oil emulsion <i>Nabilah Hauzin, Malaysia Nurul Lina Mohamad, Ros Haniza Borhan</i>
S2-PP36	2774 – Experimental design, and analytical performance of activated carbon for microextraction of polycyclic aromatic hydrocarbons in <i>Camellia sinensis</i> <i>Wan Nazihah Wan Ibrahim, Malaysia Nur Zabirah Zabi, Nordiana Suhada Mohmad Tahiruddin, Nurul Auni Zainal Abidin, Sazlinda Kamaruzaman, Noorfatimah Yahaya, Sheela Chandren, Nursyamsyila Mat Hadzir</i>

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Cluster I – Cheminformatics	
Poster ID	Abstract ID — Title & Author
S2-PP37	2076 — Integrating machine learning and in silico approaches to identify novel Innexin-2 hemichannel inhibitors for antiparasitic drug development <i>Yorley Duarte, Chile Sbarbaro Christopher, Seron Nicolás, Loncón Macarena, Márquez Valeria</i>
S2-PP38	2179 — An integrated strategy of UHPLC-ESI-MS/MS combined with bioactivity-based molecular networking for identification of dengue activity from <i>Brucea javanica</i> (L.) merr <i>Nor Syaidatul Akmal Mohd Yousof, Malaysia Mohd Ridzuan Mohd Abdul Razak, Nor Hadiani Ismail</i>
S2-PP39	2362 — Platforms for automated storage and analysis of chemical data <i>Philippe Gantzer, Japan Yuuya Nagata, Pavel Sidorov</i>
S2-PP40	2591 — Machine learning-based prediction of compound aqueous solubility using molecular descriptors and fingerprints <i>Chian Ying Teo, Malaysia Wong Zi Yang, Pravina A/P Ellambarathi, Fong Pui Kwan</i>
S2-PP41	2245 — Preliminary in silico studies of phytochemicals from selected herbal plants as potential Japanese encephalitis virus inhibitor <i>Afiq Azil, Malaysia</i>
Cluster I - Education & Public Understanding	
Poster ID	Abstract ID — Title & Author
S2-PP42	1513 — Integrating education for sustainable development into a chemistry-centered STEM initiative: A case study of the 'Journey of Plastic' in Vietnam <i>Xuan Phu Pham, Vietnam</i>
S2-PP43	1579 — Fostering systems thinking in high school chemistry through card-based learning: A case study in Vietnam <i>Tuan Nguyen Minh, Vietnam Tai Nguyen Minh, Nhu Do Hien</i>
S2-PP44	2068 — Building card set for chemical education <i>Israel Lopez, Mexico Arlethe Y. Aguilar Villarreal, Eugenio Hernández Fernández, Alejandro Vázquez, Carlos Puente</i>
S2-PP45	1927 — Enhancing stereochemistry education through inquiry-based learning and concrete molecular models <i>Chun Wai Ip, Hong Kong, China Ignatius Ip, Elvis Wang Hei Ng</i>
S2-PP46	1745 — “Chemtastic biodiversity!” Teaching and learning chemistry from, with and for biodiversity <i>Tejas Joshi, India</i>
S2-PP47	2577 — Technology enhanced experiment based learning in surface chemistry lectures <i>Swee Yee Chin, Malaysia Teo Chian Ying</i>
S2-PP48	1906 — The effect of chemical experiments on learning satisfaction of 10 grade students <i>Chanthirit Son, Cambodia</i>
Cluster I – Environmental	
Poster ID	Abstract ID — Title & Author
S2-PP49	1625 — Effect of supercritical solvent media on the deoxygenation of palmitic acid over Ni-based catalyst <i>Wajahat Waheed Kazmi, Saudi Arabia Faysal M. Al Khulaifi</i>
S2-PP50	1829 — <i>Saccharomyces cerevisiae</i> immobilized zirconium modified cellulose for phosphate sequestration from water <i>Parvathi R, India K. Krishna Priyanka, M. Christina Nilavu, Sathyapaul A. Singh, Vidya Rajesh, N. Rajesh</i>
S2-PP51	2026 — Direct Z-scheme MoS ₂ /Bi ₂ O ₃ CO ₃ nanocomposite for photocatalytic degradation of methylene blue <i>Kian Mun Lee, Malaysia Chin Wei Lai, Mohd Rafie Johan, Joon Ching Juan</i>
S2-PP52	2084 — The ligand conjugation/electron-donating effect on Cu(I) elevates the conversion of carbon dioxide to ethylene <i>Youchao Song, China</i>
S2-PP53	2559 — Polybutylene terephthalate-derived metal–organic frameworks as adsorbents for water purification <i>Hiroki Konno, Japan Koki Satoh, Shintaro Iwaya, Momoka Someya</i>

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Cluster I – Environmental	
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S2-PP54	2578 — Sustainable synthesis of functionalised carbon quantum dots for copper ion detection <i>Tong Ling Tan, Malaysia Chuah Jia Syuen, Lai Jun Jie, Yong See Wei, Suraya Abdul Rashid</i>
S2-PP55	2694 — Comparison between single-chamber and dual-chamber photocatalytic fuel cell on synthetic dye removal efficiency and power generation <i>Meng Guan Tay, Malaysia Jia Chee Liu, Antonio Choon Kiat Anak Niang</i>
S2-PP56	1850 — Synthesis, characterization, corrosion inhibition, and mechanistic studies of Nitrobenzaldehyde Meldrum's acid in 1M HCl <i>Nur Nadia Dzulkifli, Malaysia Sheikh Ahmad Izaddin Sheikh Mohd Ghazali, Fazira Ilyana Abdul Razak, Suhaila Sapari</i>
S2-PP57	1923 — Nitrite determination in water samples based on electrochemical method using diazotization coupling reaction with Cefixime <i>Stela Georgieva, Bulgaria Artem Bezfamilnii, Petar Todorov</i>
S2-PP58	1891 — Efficient self-catalytic reactors for catalytic C1 molecular conversion <i>Hao Huang, Japan</i>
S2-PP59	2539 — Magnetic field-assisted CO ₂ reduction: Modulating magnetic moments and molecular bonding for enhanced catalysis <i>Shilin Wei, China</i>
S2-PP60	1903 — Membranes functionalization with non-volatile solvents for gas separation – DES and ILS as a sustainable approach <i>Pedro Carvalho, Portugal Beatriz F. Esteves, Bruna R. M. Ferreira, Isabella Souza, Filipe H. B. Sosa, João Peres Ribeiro</i>
S2-PP61	1985 — Adsorption isotherm for CO ₂ capture using manganese oxide synthesized via precipitation method: The effect of adsorbent activation <i>Azizul Hakim Lahuri, Malaysia Muhammad Azli Yusof Nor Azman, Syawal Mohd Yusof, Siti Sarahah Sulhadi, Salma Samidin, Nur Farhana Jaafar, Norazzizi Nordin, Norliza Dzakaria</i>
S2-PP62	2325 — Variations in soil organic matter composition of tropical peatland in Sarawak, Malaysia using ¹³ C NMR spectroscopy <i>Lulie Melling, Malaysia Faustina E. Sangok, Akira Watanabe, Nur Azima Busman</i>
S2-PP63	2761 — Zinc oxide nanostructure and defect modulation for integrated energy and water applications <i>Choon Yian Haw, Malaysia Gan Wee Chen, Liow Jo Ey, Lim Kok Loong, Goh Jin He, Tan Kar Woon</i>
S2-PP64	2762 — Bifunctional phase-engineered NiSe ₂ /Ni ₃ Se ₄ @NiCoFe-LDH/Nickel foam nanosheets electrocatalyst for efficient hydrogen production and urea oxidation <i>Nabilah Saafie, Malaysia Wee Jun Ong</i>
S2-PP65	2766 — Revolutionized quantum efficiency of graphene oxide based composites for organic pollutants remediation <i>Siti Nor Atika Baharin, Malaysia Syafarina Farisa Sateria, Ahmad Husaini Mohamed, Kavirajaa Pandian Sambasevam, Zulhatiqa Zolekafeli</i>
S2-PP66	2781 — Phytochemical analysis, antioxidant and antibacterial activity of ecoenzyme soap from rock melon (<i>cucumis melo</i> L.) Peels <i>Wan Zuraida Wan Mohd Zain, Malaysia Nur Sakinah Asyaa, Amyra Hazwani Ghazalia, Siti Alwani Ariffin, Afiah Mohammadc, Neneng Windayanid</i>
S2-PP67	2789 — Trap inlaid cationic hybrid composite material for efficient segregation of toxic chemicals from water <i>Sahel Fajal, India Writakshi Mandal, Samraj Mollick, Yogeshwer D. More, Arun Torris, Satyam Saurabh, Mandar M. Shirolkar, Sujit K. Ghosh</i>
Cluster I – Green Chemistry	
Poster ID	Abstract ID – Title & Author
S2-PP68	2178 — Synthesis of environmentally friendly cationic surfactant from hemp seed oil <i>Nergiz Cengiz, Turkiye Ismail Kasapoğlu</i>

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Cluster I – Green Chemistry	
Poster ID	Abstract ID – Title & Author
S2-PP69	1229 – The ion behavior and storage mechanism of 2D MoO ₃ layer structure in an air-stable hydrated eutectic electrolyte for aluminum-ion energy storage <i>Jin Ming Chen, Taiwan, China</i>
S2-PP70	1247 – Electrosynthesis of benzimidazole-fused quinazolinones via a cascade addition-desulfurization-cyclization process <i>Thu Khuyen Nguyen, Thailand</i>
S2-PP71	1403 – Small-scale titration as a green chemistry-based alternative: A comparative study with conventional methods <i>Marc Kye Peng Tang, Malaysia Sheau Huey Chong</i>
S2-PP72	2548 – Amorphous-crystalline interface induced internal electric fields for electrochromic smart window <i>Shi Zhang, China</i>
S2-PP73	1326 – Study on the selectivity of TOPO based DESS for PGMS extraction <i>Lingen Guo, Japan Yutaro Takaya, Chiharu Tokoro</i>
S2-PP74	1400 – Dithiocarbamate-functionalized cellulose for effective separation of lead from chelator-washed soil effluents <i>Pranta Sarker, Japan</i>
S2-PP75	1684 – Synthesis, evaluation as herbicides and ecotoxicity of new cyclopeptides with inhibitory activity on cyanobacteria <i>Gloria Lourdes Serra Lemes, Uruguay</i>
S2-PP76	1241 – Greener and rapid magnetic solid phase microextraction method using Fe ₃ O ₄ @Al ₂ O ₃ /AC for chromatographic determination of neonicotinoid pesticides in vegetable oils <i>Masixole Sihlahla, South Africa Philiswa Nomngongo, Nomvano Mketo</i>
S2-PP77	1508 – Adsorption of heavy metals from acid mine drainage using poly (hydroxamic acid) ligand <i>Nozipho Mabaso, South Africa</i>
S2-PP78	1517 – Pinecone-derived adsorptive bio-nanocomposites as enhancers for mono- and co-doped amorphous TiO ₂ in wastewater remediation application <i>Kgomotso Mtshatsheni, South Africa</i>
S2-PP79	1548 – Synthesis of magnetite (Fe ₃ O ₄) nanoparticles functionalised with cyclodextrin via polydopamine coating for the remediation of tetracycline and ciprofloxacin from aqueous solution <i>Agnes Pholosi, South Africa Emmanuel Adisa, Samson Akpotu, Vusumzi Pakade</i>
S2-PP80	1729 – Investigation of the effectiveness of food grade reagents in the extraction of cellulosic plant fibers <i>Jennifer Antonio, Philippines</i>
S2-PP81	1442 – Sustainable analytical techniques: Comparing small-scale and conventional UV-Vis methods for chromium (III) nitrate analysis <i>Sheau Huey Chong, Malaysia Jia Wei Wong</i>
S2-PP82	2160 – Sodium rich layered oxide cathodes for high capacity sodium-ion batteries <i>Oliver Thomas, United Kingdom Robert A House, Peter G Bruce</i>
S2-PP83	1714 – Highly efficient catalytic preparation of bio jet-fuel precursors by amino-functionalized basic γ-Al ₂ O ₃ <i>Yuanyuan Wang, China</i>
S2-PP84	2690 – Nucleophilic activation of elemental chalcogenes in the presence of ionic liquids <i>Natalia Tarasova, Russian Federation Efrem Krivoborodov, Samson Muradyan, Darya Andriyanova</i>
S2-PP85	2788 – Quantum chemical investigations into the structural and spectroscopic properties of choline chloride-based deep eutectic solvents <i>Ashrafur Hasan, Bangladesh Ismail M. M. Rahman, M. Rithoan Hossain, Faisal Islam Chowdhury</i>
Cluster I - Human Health & Well Being	
Poster ID	Abstract ID – Title & Author
S2-PP86	2039 – <i>Physalia physalis</i> jellyfish components: Pepsin-solubilized collagen characterization and polyphenols composition <i>Ines Ferreira, Portugal Carla Pires, Andreia Silva, Narcisa Bandarra, Amélia Rauter, Rosário Bronze</i>

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Poster ID	Abstract ID — Title & Author
S2-PP87	1233 — Carnosine: A promising champion molecule for combating type 2 diabetes <i>Charlie Lavilla, Philippines</i>
S2-PP88	1371 — Toxicological evaluation of Cucur atap extract in rats: A fixed-dose study under OECD Guideline 420 <i>Bee Ping Teh, Malaysia Azlina Zulkapli, Siti Zubaidah Che Lem, Suganthi Jeyabalan, Maizatul Hasyima Omar, Amirrudin Muhammad, Tavinraj Rajendran, Nurulfariza Ramli, Wan Mohamad Adham Afiq Wan Zainuzzaman, Zahra Afni Ahmad, Siau Thien Chen, Dalnitha Lea Nichol, Muhd Zaim Mohamad Akhir, Voon Yee Lin, Mohd Ridzuan Mohd Abd Razak, Norizah Awang, Ami Fazlin Syed Mohamed</i>
S2-PP89	2495 — Tiny droplets, big impact: Nanoemulsion of lutein and zeaxanthin for vision protection <i>Nicholas Tung, Malaysia Lai Chun Wong, Lim Chaw Jiang, Lim Wei Meng, Liew Yun Khoo, Cheong Kok Whye</i>
S2-PP90	1337 — Photocytotoxic evaluation and isolation of chemicals from <i>Strobilanthes crisp</i> (L.) Blume leaf extracts against skin cancer cells <i>Chee Shien Chen, Malaysia Loke Chui Fung, Poh Tze Ven, Lai Oi Ming, Tan Siow Ping</i>
S2-PP91	1405 — Development of hypoxia-activated prodrugs of second generation analogues of Bedaquiline for treatment of latent tuberculosis <i>Christine Kim, New Zealand Jinney Jose, Michael Hay, Peter Choi</i>
S2-PP92	2765 — Natural products from the edible seaweed <i>Halymenia hawaii</i> ana <i>Leng Chee Chang, United States</i>
S2-PP93	2259 — From synthesis to human health: Exploring quinazoline derivatives for multitarget neurological and infectious disease therapy <i>Nishtha Nishtha, India Manish Kumar, Neelam Sharma, Vijay Sharma</i>
Cluster I - Inorganic & Bioinorganic	
Poster ID	Abstract ID — Title & Author
S2-PP94	2176 — The chemistry of 10-vertex electron-rich carborane clusters <i>Vlastimil Nemec, Czechia Jan Vrana, Josef Holub, Maksim A. Samsonov, Ales Růžicka</i>
S2-PP95	1304 — Organonickel complexes based on the alkyl-chain effect for highly efficient solar-driven evaporation and electricity <i>Jen Shyang Ni, Taiwan, China</i>
S2-PP96	1297 — Chiral-metal organic frameworks (CMOF) based circularly polarized flexible spin light emitting diodes <i>Mujahid Mustaqeem, Saudi Arabia Mohammed Ashraf Gondal</i>
S2-PP97	2361 — Exploring novel zinc complexes with picolinato derivatives: Synthesis and analysis <i>Misel Hozjan, Slovenia</i>
S2-PP98	2096 — Controllable syntheses of a two-dimensional coordination framework and its discrete heteroleptic building blocks <i>Thanh Nhan Nguyen, Korea, Rep. Hyojong Yoo</i>
S2-PP99	974 — Two-dimensional hexaaminophenyl conductive metal-organic framework for high-performance lithium-sulfur batteries <i>Yongsheng Fu, China</i>
S2-PP100	990 — Synergistic solvent extraction of lanthanoids with traditional ligands (4-acylpyrazolone and bidentate nitrogen bases) in a nontraditional diluent confirmed by NMR <i>Maria Atanassova Petrova, Bulgaria</i>
S2-PP101	1107 — Synthesis and characterisation of dipyrrolic ligands and their metal complexes <i>Sadhna Mathura, South Africa</i>
S2-PP102	2484 — Processing of metal-organic frameworks for arsenic removal from petroleum products <i>Kanokwan Kongpatpanich, Thailand Phakawan Thinsoongnoen, Kunlanat Sriphumrat</i>
S2-PP103	2521 — Aerobic photodecomposition of pyrene-based metal-organic framework NU-1000 <i>Wenyi Zeng, Singapore</i>

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S2-PP104	2580 — Quantitative study on the influence of bromide ions toward the reduction kinetics for size-tunable palladium nanocubes <i>Yilin Zhao, China</i>
S2-PP105	1739 — Dual targeting of A549 lung cancer spheroids using ruthenium (II) polypyridyl complex and PARP inhibition <i>Haslina Ahmad, Malaysia</i>
S2-PP106	2147 — Sol-gel-derived bioactive glass as a reference standard for in vitro apatite formation: A comparison with melt-quench glass <i>Usanee Pantulap, Thailand</i>
Cluster I - Organic & Biomolecular	
Poster ID	Abstract ID — Title & Author
S2-PP107	1078 — Synthesis and biological evaluation of alkali metal salts of tryptanthrin-6-oxime <i>Anastasiia Kovrizhina, Russian Federation Khlebnikov A.I., Plotnikov E.V.</i>
S2-PP108	1455 — Mechanism of action and catalytic efficiency of dicyanopyrazine photoredox catalyst <i>Miroslav Ludwig, Czechia Zuzana Buresova, Monika Grygarova, Pavlina Perglova, Filip Bures</i>
S2-PP109	1069 — Design and synthesis of novel α -Mangostin's Analogues as potential neuroprotective agent <i>Kooi Yeong Khaw, Malaysia</i>
S2-PP110	1157 — Piperidine-aromatic amine hybrids in immunotherapy approaches <i>Aigul Malmakova, Kazakhstan Yu V.K., Baktybayeva L.K.</i>
S2-PP111	2319 — Thiazole-Schiff base containing thiosemicarbazones: Synthesis, antimicrobial and antioxidant activity with ADMET prediction, molecular docking study and dynamics simulation <i>Md Mizanur Rahman, Bangladesh Mohammad Mostafizur Rahman, Md. Aminul Haque</i>
S2-PP112	2270 — A novel hydroxyphosphonates as stimulators of plant growth <i>Aigul Malmakova, Kazakhstan Otegulova K.B., Nurlanuly N.</i>
S2-PP113	1348 — Novel antiparkinsonian agents based on Prottremine <i>Nikolai Li Zhulanov, Russian Federation Alexandra Podturkina, Anastasia Filippova, Alla Pavlova, Konstantin Volcho, Tatyana Tolstikova, Nariman Salakhutdinov</i>
S2-PP114	1314 — Iridium-catalyzed decarbonylative annulation of benzoic pivalic anhydrides with alkynes <i>Takanori Matsuda, Japan Koichiro Yamada, Yixuan Lin, Yuki Ito, Hirotsugu Suzuki</i>
S2-PP115	2710 — Predominant compounds of <i>Neolitsea mollissima</i> essential oils from trail to Gunung Tanggung (Pahang and Perak border), Malaysia <i>Nor Azah Binti Mohamad Ali, Malaysia Saidatul Husni Saidin, Mohd Shafik Yuzman, Nurliyana Abdul Latif</i>
S2-PP116	2543 — Perfluoro alkyl chain influence on photophysical properties and molecular packing of fluorophores <i>Shirisha Chettukindhi, Taiwan, China</i>
S2-PP117	1306 — Palladium-mediated site-selective C–H bond activation and arylation of 9(10H)-acridinone and mechanistic investigation: Stoichiometric and catalytic approaches <i>Jean Ho Chu, Taiwan, China Jin Lee, Guan Wei Liao, Lin En Zeng, Chien Wen Lin, Ching Hung Cheng, Wen Chieh Lin, Li Ching Shen, Guo Feng Chen, Rong Chang, Andrew C. H. Sue</i>
S2-PP118	1309 — Synthesis of coumarinolignoid sapiumin C analogs utilizing rhodium catalyzed arylation <i>Irene Kim, New Zealand Patrick Pan, Lisa Pilkington, David Barker</i>
S2-PP119	1514 — Copper-catalysed synthesis of propargyl alcohol and derivatives from acetylene and other terminal alkynes <i>Leo Saputra, Germany</i>
S2-PP120	1691 — Ladder-type fused benzodithiophene-based non-fullerene acceptors for high-efficiency organic solar cells <i>Longyun Shi, Korea, Rep.</i>

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Cluster I - Organic & Biomolecular	
Poster ID	Abstract ID — Title & Author
S2-PP121	1828 — Phytochemical and pharmacological investigation of mangrove plant species from Sine-Saloum (Senegal) using ethnopharmacological approach and molecular networking <i>Djibril Fall, Senegal Cheikhouna Gaye, Yoro Tine, Elnur Garayev, Anne Bousquet Mélou, Béatrice Baghdikian</i>
S2-PP122	2671 — Molecular mechanism of differential alteration of N-glycans in frozen-thawed meat <i>Chang Wang, China</i>
S2-PP123	1362 — Isolation of carbazole alkaloids from <i>Murraya koenigii</i> leaves <i>Viven Ting, Malaysia</i>
S2-PP124	1382 — Pancreatic lipase inhibitory effects of <i>Murraya koenigii</i> root extracts <i>Wai Ting Chong, Malaysia Liew Sook Yee, Tan Siow Ping</i>
S2-PP125	332 — Elucidation of the electrophilic potential of some biologically active Michael receptor molecules derived from plants <i>Basim Asghar, Saudi Arabia Nizar El Guesmi</i>
S2-PP126	2152 — Synthesis of dihydropyrimidine - Triazole, pyrazolo pyridines and N-heterocycle chalcones derivatives as cancer MDR agents <i>Yeray Rodríguez, Chile Efraín Polo Cuadrado, Glaucio Valdameri</i>
S2-PP127	1393 — Structure-activity relationship of carbazole alkaloids isolated from <i>Murraya koenigii</i> against cancer cell lines <i>Ying Xin Chew, Malaysia Mohd Azlan Nafiah, Siow Ping Tan</i>
S2-PP128	1397 — Mechanochemical synthesis of α,β -dibromoketones using pyridinium tribromide <i>Wei Jin Chang, Malaysia Sook Yee Liew, Thomas Kurz, Siow Ping Tan</i>
S2-PP129	995 — In vitro antioxidant, anti-inflammatory, anti-cancer and in silico molecular docking studies of <i>Xanthosoma sagittifolium</i> (L.) Schott (yellow flesh cultivar) <i>Rachael Ekong, Nigeria</i>
Cluster I - Physical & Biophysical	
Poster ID	Abstract ID — Title & Author
S2-PP130	1550 — Interfacial accumulation of polymers in emulsified aqueous multiphase systems <i>Daniel Pliego Sosa, Netherlands</i>
S2-PP131	1821 — Studying multiphase reactions in microdroplets via single particle spectroscopic platform <i>Yuan Pin Chang, Taiwan, China</i>
S2-PP132	2169 — Host-guest complexation of Dapivirine and Cucurbit[n]uril: Insight from molecular dynamics simulation <i>Nadtanet Nunthaboot, Thailand Jirasak Thipphichai, Chananya Ratchakom, Thitiya Boonma</i>
S2-PP133	2440 — Reaction dynamics in solution probed by femtosecond infrared spectroscopy <i>Manho Lim, Korea, Rep.</i>
S2-PP134	2164 — Computational screening of novel inhibitors from an in-house library targeting the ligand binding domain of human androgen receptor <i>Bodee Nutho, Thailand</i>
S2-PP135	2770 — Photophysical properties of 3,3'-diethylthiacarbocyanine iodide (Cy3) fluorescent molecular rotor in deep eutectic solvents and organic molecular solvents <i>Mohd Azizi Bin Nawawi, Malaysia Putri Nurfarrah Syofea Rosllan, Norhafizah Jaafar, Muhammad Arif Danial Zazuli</i>
S2-PP136	1191 — Molecular origin and quenching mechanism of photoluminescent carbon quantum dots from ammonium citrate <i>Ryan Asri Wan, Saudi Arabia Asem Alenaizan, Mohammad N. Siddiqui, Almaz S. Jalilov</i>

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S2-PP137	2433 — Smart polymers in drug delivery: Advancing precision medicine for safer and targeted therapeutics <i>Zainab Ngaini, Malaysia Vannessa Lawai</i>
S2-PP138	1948 — Sunlight-driven green approaches to construct degradable hydrogel-based wearable sensors <i>Jun Hu, China Guo Dong Fu</i>
S2-PP139	1945 — Bio-based supramolecular photochromic coating <i>Yuting Tian, China Guodong Fu</i>
S2-PP140	2025 — Yolk-shell Fe ₃ O ₄ @P(DVB-co-MAA) magnetic microspheres loaded with Ag nanoparticles as high-efficiency catalysts for nitroaromatic compound reduction <i>Xinyu Chen, China</i>
S2-PP141	2056 — Structure-engineered microspheres for enhanced sensitivity in luminescent oxygen channeling immunoassays <i>Yingrui Nie, China Yong Jiang</i>
S2-PP142	2063 — Synthesis, characterisation, and evaluation of palm oil-based polyesteramide for carotene solid dispersion <i>Nagaloshni Pragalatha, Malaysia</i>
S2-PP143	1955 — A pH-responsive covalent organic network: Morphology change leads to capture and removal of phosphate ions from water <i>Gunanka Hazarika, India</i>
S2-PP144	2184 — Eliminating triboelectric effects in flexible devices: A strategic approach for antistatic coatings and tribo-less piezoelectric response <i>Anshika Passi, India Tridib Kr. Sinha</i>
S2-PP145	2295 — Selective ion-transporting polymeric layers for advanced zinc ion batteries <i>Yanghyun Cho, Korea, Rep. Jongha Hwang, Dong Ok Shin, Minsu Gu, Woo Jin Song</i>
S2-PP146	2359 — PLLA-based modified food packing materials <i>Jiahui Du, China Xueyan Yun, Tungalag Dong</i>
S2-PP147	2320 — Initiator-free crosslinking process without organic solvent for lithium metal batteries based on polymer electrolyte <i>Chi Keung Song, Korea, Rep. Sanghyun Park, Woo Jin Song, Kyung Jin Lee</i>
S2-PP148	2402 — Dynamic crosslinked self-healing binder for high-performance silicon anodes <i>Minju Song, Korea, Rep.</i>
S2-PP149	1694 — Sol-gel polymerization of molecularly imprinted o-cresol: Preparation, characterization and application <i>Mohamad Raizul Zinalibdin, Malaysia Norshahida Samsuri, Ahmad Huzairan Abdul Ghafar, Suraini Mat Yasin</i>
S2-PP150	1444 — Synthesis, photophysical and electrochemical properties of Di(1-benzothieno)[3,2-b:2',3'-d]pyrrole derivatives with D-π-D type structural configuration <i>Chihjung Hsu, Taiwan, China Yung Sheng Yen</i>
S2-PP151	1252 — Proposing the imprinted PENA modified electrode for specific determination of urinary uric acid concentration <i>Hsiao Yu Cheng, Taiwan, China Mei Jywan Syu</i>
S2-PP152	1330 — Mimicking human thinking for discovering new materials and yielding new knowledge in an emerging field <i>Shuangyan Tian, China Fanyang Mo, Ting Lei</i>
S2-PP153	1329 — Unveiling the potential of BmImTFSI-functionalized poly (acrylic acid)-based ionogel polymer electrolyte for electrical double layer capacitor (EDLC) application <i>Kar Kien Ong, Malaysia L.P. Teo, Chiam Wen Liew</i>
S2-PP154	1559 — Preparation of stimuli-responsive hydrogel particles and adsorption/desorption of organic dye <i>Hyo Takahashi, Japan Masahiro Muraoka, Motohiro Shizuma, Shintaro Kawano</i>

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Cluster I – Polymer & Materials	
Poster ID	Abstract ID – Title & Author
S2-PP155	1496 – Cyanate resin composite material <i>Yijia Zhou, China</i>
S2-PP156	1500 – Self-healing hydrogels printed by photoinduced 3D printing techniques for biomedical applications <i>Maria D'aloia, Italy Ignazio Roppolo, Francesca Frascella</i>
S2-PP157	1872 – Comparison of nanocellulose extracted from oil palm mesocarp fibre using acid hydrolysis and TEMPO oxidation methods <i>Jo Sze Lean, Malaysia Jeck Fei Ng, Siau Hui Mah, Chai Yee Chin, Harrison Lik Nang Lau, Soek Sin Teh</i>
S2-PP158	1689 – Low dark current organic X-ray sensors based on a medium bandgap polymer donor <i>Hyeseong Ko, Korea, Rep.</i>
S2-PP159	1581 – Photocurable polymers and their interaction with terahertz radiation: A pathway to 4D printable polymeric meta-devices for 6G technologies <i>Beatrice Tosetto, Italy Fabrizio Candido Pirri, Giancarlo Rizza, Ignazio Roppolo</i>
S2-PP160	1942 – Prediction on structural properties and CO ₂ solubility in MIL-88@PEO as thin mixed matrix membrane using MD simulation <i>Mohamad Adil Iman Ishak, Malaysia Khairulazhar Jumbri, Hayyiratul Fatimah Mohd Zaid</i>
S2-PP161	2007 – Thermoelectric properties enhancement of Bi ₂ Te ₃ thin film via in doping <i>Angella Thng, Malaysia Muhammad Ubaidah Syafiq Mustaffa, Nurfarhana Ahmad Musri, Puvaneswaran Chelvanathan, Mohd Sukor Su'ait, Nadhrah Md Yatim, Assayidatul Laila Nor Hairin</i>
S2-PP162	2312 – Interface modification and structural control of tunnel layer/active layer in polymer-grafted gold nanoparticle floating-gate memory <i>Kailin Tang, China</i>
S2-PP163	1414 – Mechanical properties of anthracene-based host-guest complexes <i>Yuto Hino, Japan</i>
S2-PP164	1487 – Synthesis of π -conjugated molecular co-crystal toward anisotropic photon transport <i>Mahiro Nakabayashi, Japan Matsuo Takumi, Shotaro Hayashi</i>
S2-PP165	1411 – Fluorinated D-A-D type π -conjugated molecular crystals: 2D elasticity and active optical waveguide <i>Keigo Yano, Japan</i>
S2-PP166	2269 – Improved polar VOC detection with an inorganic-organic hybrid chemiresistive sensor: Examining sensitivity, selectivity, and environmental effects <i>Shreshth Dobriyal, India Tridib Kumar Sinha</i>
S2-PP167	1201 – Nanoarchitectonics of indium sulfide/exfoliated graphite/multiwalled-carbon-nanotubes-based nanocomposite in benzyl alcohol and its effect on aqueous symmetrical supercapacitors <i>Jian Hong Liew, Malaysia Mui Yen Ho, Jyh Tsung Lee, Teck Hock Lim</i>
S2-PP168	1344 – Synthesis, characterization, and application of magnetic S/Fe ₃ O ₄ (SuFeO) nanocomposite for heavy metal capture and antimicrobial activity <i>Yong Hong Shiow, Malaysia Khatijah Binti Mohamad Yusoff, Vuanghao Lim, Joon Ching Juan, Rafidah Binti Zainon, Chui Fung Loke, Teck Hock Lim</i>
S2-PP169	1433 – Nanofloating arrays of ordered assembled gold nanoparticles modified with polymer/azobenzene dual-ligands <i>Liangzhu Jiang, China</i>
S2-PP170	1859 – Sustainable surfactant-modified montmorillonite: A plant-based alternative to conventional organoclays <i>Nur Aliaa Zulkefli, Malaysia Mohd Aidil Adhha Abdullah, Mazidah Mamat, Mohamad Khairi Mohd Zainol, Norizah Binti Mhd Sarbon, Azlin Fazlina Bt Osman</i>
S2-PP171	1812 – Synthesis and characterization of nanocomposites based on spinel ferrite oxide and polypyrrole Zn _{0.3} Mg _{0.7} Fe ₂ O ₄ @PPy for active material for industrial applications <i>Guene Makhtar, Senegal Modou Gningue Diop, Mamadou Gueye, Momath Lo</i>
S2-PP172	1746 – Innovative intelligent food packaging incorporating κ -carrageenan/polyaniline films <i>Kar Yan Fong, Malaysia Ishak Ahmad, Sook Wai Phang</i>

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Cluster II – SDG3 Good Health & Well Being	
Poster ID	Abstract ID — Title & Author
S2-PP173	2507 — Exploring the natural product of therapeutic potential of kaffir lime from the insights of LC-MS orbitrap analysis perspective <i>Kathleen J Jalani, Malaysia Fatimah Salim, Nurulfazlina Edayah Rasol, Adiez Sapura Azmi</i>
S2-PP174	2500 — Chemical profiling and quantification of selected anthraquinones from the roots extracts of <i>Rennellia borneensis</i> Baill <i>Nurunajah Ab Ghani, Malaysia Nur Afiqah Nadhiah Ammar Rushdan, Nurufazlina Edayah Rasol, Wan Mohd Nuzul Hakimi W Salleh, Adlin Afzan, Monica Suleiman</i>
S2-PP175	2572 — Stilbenes from <i>Hopea ferrea</i> of limestone forests: A promising source of antibiofilm agents <i>Nurul Izzah Mohd Sarmin, Malaysia</i>
S2-PP176	2573 — Chemical profiling and antimicrobial evaluation of secondary metabolites from arctic fungi induced by epigenetic modifiers <i>Siti Hajar Sadiran, Malaysia</i>
S2-PP177	2687 — LC-MS/MS-Driven compound annotation and isolation from Malaysian <i>Uncaria</i> species <i>Fatimah Salim, Malaysia Nursyaza Husna Shaharuddin</i>
S2-PP178	2041 — Natural products as potential inhibitors of ALK5 against idiopathic pulmonary fibrosis: In silico docking analysis <i>Bandar Ali A Alyami, Saudi Arabia Ahmed K. Hamdy, Al Montaser Bellah H. Ali</i>
S2-PP179	2079 — GCMS-based phytochemical analysis of <i>Glycosmis pentaphylla</i> leaves: In-vitro assessment of antidiabetic, antioxidant, anti-inflammatory, and anticancer properties against MDAMB-231, A549, and HEP-G-2 cancer cell lines <i>Yahya Alqahtani, Saudi Arabia</i>
Cluster II – SDG6: Clean Water & Sanitation	
Poster ID	Abstract ID — Title & Author
S2-PP180	2271 — Assessment of surface water quality associated with upstream artisanal mining activities in Prek Te area, Cambodia <i>Socheata Korng, Cambodia</i>
S2-PP181	2598 — Ensuring data integrity in volatile organic compound (VOC) analysis: A qualities assurance approach for river water assessment <i>Jamilah Karim, Malaysia Nasehir Khan E.M. Yahaya</i>
S2-PP182	2672 — Pyrolysis: An innovative alternative for alum sludge treatment <i>Nur Izzati Md Saleh, Malaysia Muhd Shahril Nizam Ismail, Muhammad Abdullah, Nasehir Khan E.M Yahya</i>
Cluster II - SDG7: Affordable & Clean Energy	
Poster ID	Abstract ID — Title & Author
S2-PP183	2099 — Development and characterization of ScSZ-SDC composite cathodes for intermediate-temperature solid oxide fuel cells <i>Kang Huai Tan, Malaysia</i>
Cluster II - SDG13: Climate Action	
Poster ID	Abstract ID — Title & Author
S2-PP184	1641 — Enhancing general chemistry education for allied health: Development and validation of greenlab, a green chemistry-intensive laboratory manual <i>Romulo Jr Macadangdang, Philippines</i>
S2-PP185	2138 — One pot synthesis of 3,4-dihydro-3-hydroxyisochroman-1-one and evaluation of its acetal derivatives as new class of mosquitocidal compounds <i>Gautam Patel, India Pradeep T. Deota</i>
S2-PP186	1947 — Towards sustainable plantation strategies via application of nanofertilizers for nutrient efficiency <i>Nor Farhana Khadiran Farhana, Malaysia</i>
S2-PP187	2230 — Driving chemistry for sustainable change <i>Mandar Bodas, India</i>

Poster Presentation Session 2

Mounting Time: 17th July 2025 from 0900 hrs
Dismantle Time: 18th July 2025 at 1600 hrs

Venue: Banquet Hall, Level 3

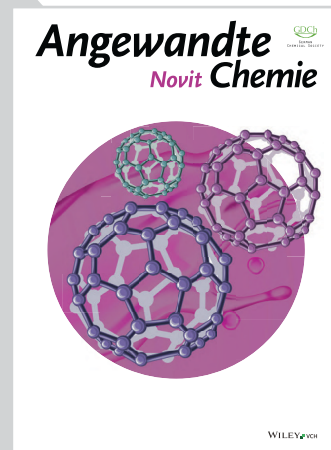
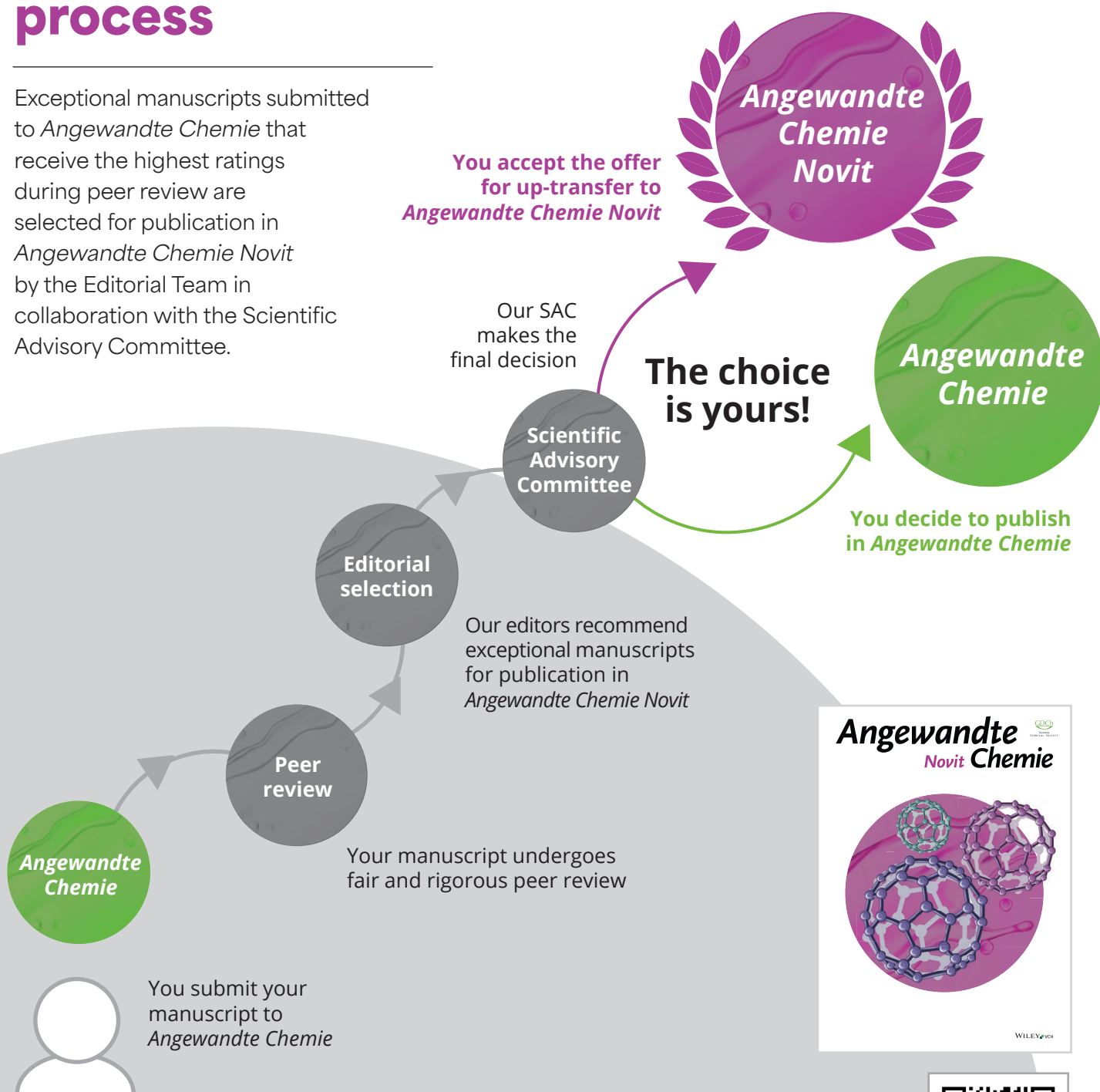


Cluster II - SDG13: Climate Action	
Poster ID	Abstract ID — Title & Author
S2-PP188	2756 — Innovating green and low-carbon technologies to enable carbon peaking and carbon neutrality: Progress of green carbon <i>Xiang Qiu, China</i>
Cluster III - Symposium on Chemical Safety and Security	
Poster ID	Abstract ID — Title & Author
S2-PP189	1915 — AI machine learning development in chemical safety: Predictive algorithms and protective measures based on nine GHS symbol classifications <i>Hooi Ling Lee, Malaysia Muhammad Aiman Hazmir, Tiem Leong Yoon</i>
S2-PP190	979 — Empowering communities: Advancing chemical safety and security through innovation and education <i>Ridha Ben Salem, Tunisia</i>
S2-PP191	1416 — Establishing a management system for the safety and security of chemical substances <i>Belkacem Benguella, Algeria</i>
S2-PP192	1619 — Toward cohesive chemical safety and security education in ASEAN <i>Armando Jr. Guidote, Philippines Anna Carissa M. San Esteban, Hooi Ling Lee</i>
S2-PP193	1741 — Implementation of chemical security initiatives in Thailand & ASEAN <i>Sutthipas Wongsiriporn, Thailand Chalernsak Karnchanawarin</i>
S2-PP194	2015 — Security and transportation codes - Responsible care implementation in chemical industry <i>Eko Pratikto, Indonesia</i>
S2-PP195	2775 — Systematic literature review: Characteristics of confined space hazards in the construction sector <i>Mohd Akhir Bin Ahmad, Malaysia</i>
Cluster I – Environmental	
Poster ID	Abstract ID — Title & Author
S1-PP196	1446 — Effective removal of quinolones from actual water matrices by activated peroxymonocarbonate via magnetic carbon-based heterogeneous catalyst <i>Haoqi Yang, China Botao Zhang</i>
S1-PP197	1439 — Degradation of antibiotics by peroxymonocarbonate activation via MOF-derived nanoreactors <i>Botao Zhang, China Haoqi Yang</i>
Cluster II - SDG13: Climate Action	
Poster ID	Abstract ID — Title & Author
S1-PP198	1299 — Synthesis of nickel-based cerium oxide hollow spheres catalyst for dry reforming of methane to efficient syngas production <i>Ijaz Hussain, Saudi Arabia Khalid R. Alhooshani, Saheed A. Ganiyu</i>

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- 7 Elastomers & Latexes
- 8 Durability & Performance