

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

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

DATE & VENUE / OPERATION HOUR	14 JUL 2025, MON	15 JUL 2025, TUE	16 JUL 2025, WED	17 JUL 2025, THU	18 JUL 2025, FRI	19 JUL 2025, SAT
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	14 JUL 2025, MON	15 JUL 2025, TUE	16 JUL 2025, WED	17 JUL 2025, THU	18 JUL 2025, FRI	19 JUL 2025, SAT
Poster Sessions, Banquet Hall (Level 3)	Close	SESSION 1 Mounting Time: 15 Jul 2025 0900hrs Dismantle Time: 16 Jul 2025 1600hrs		SESSION 2 Mounting Time: 17 Jul 2025 0900hrs Dismantle Time: 18 Jul 2025 1600hrs		Close

14 JULY 2025, MONDAY

All the meeting rooms are in Kuala Lumpur Convention Centre: **MR** = Meeting Room (MR3xx located at Level 3; MR4xx located at Level 4) | **CH** = Conference Hall, Level 3 | **Suite** = locate at Level 3 | **TS** = Thematic Session

VENUE	CH1-3	MR409	Ballroom 1+2
0700-1800	REGISTRATION		
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	0900-1500 14CS1-MR409 TS4 Thematic session - Workshop on Chemical Safety and Security	
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	By Invitation	
1800-2000			WELCOME RECEPTION

1100-1150	PLENARY 3 From Coherence in Photosynthesis to Chemical Quantum Information Science Prof Gregory Scholes Princeton University, United States Chairperson: Zhigang Shuai, China 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	Plenary Session at CH1&2	Plenary Session at CH1&2	Plenary Session at CH1&2	Plenary Session at CH1&2	Plenary Session at CH1&2	Plenary Session at CH1&2	Plenary Session at CH1&2
1150-1240		Plenary Session at CH1&2	Plenary Session at CH1&2	Plenary Session at CH1&2	Plenary Session at CH1&2	Plenary Session at CH1&2	Plenary Session at CH1&2	Plenary Session at CH1&2
1240-1400	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
VENUE	CH1&2	CH3	Plenary Theatre	MR302	MR303	MR304	MR305	MR306

15 July, Tue	CH1&2	CH3	Plenary Theatre	MR302	MR304	MR305	MR306
	<p>15CS3-CH1&2 Polymer & Materials</p> <p>Chairperson: Satriani Aga Pasma, Indonesia</p> <p>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</p> <p>1645-1700 1399 (O): Development of sustainable materials by incorporating waste alkaline sludge for CO₂ capture Siti Sarahah Sulhadi, Malaysia</p> <p>1700-1715 2480 (O): High-performance polymeric electrode materials for organic batteries Hungju Yen, Taiwan, China</p> <p>1715-1730 1207 (O): Solvent acidolysis crystallization of halide perovskite single crystals Ahmed Abdelhady, United Arab Emirates</p> <p>1730-1750 1060 (I): Synthesis of high-performance polymers from naturally occurring Myo-Inositol Atsushi Sudo, Japan</p> <p>1750-1805 569 (O): Effect of chemical modification on date palm fibers Helanka Perera, Sri Lanka</p>	<p>Council Meeting</p>	<p>15CS3-PT Education & Public Understanding</p> <p>S19 Symposium –Systems Thinking in Chemistry for Sustainability Session</p> <p>Chairperson: Peter Mahaffy, Canada Stephen Matlin, United Kingdom</p> <p>1630-1640 Co-chair Introduction</p> <p>1640-1650 2534 (I): Opportunities and barriers in the sustainable transformation of the chemical industry - A systems thinking approach Christian Heinz Werner Holtze, Germany</p> <p>1650-1700 2340 (I): PET cradle-to-cradle recycling Fanny Liao, Taiwan, China</p> <p>1700-1710 2399 (I): Systems thinking, sustainability and chemical industry: Ammonia as an energy carrier Jeanette Simpson, United Kingdom</p> <p>1710-1720 2695(I): Systems thinking, sustainability and chemical industry: Scope and limitations of life-cycle assessment Ulla Letinois, Switzerland</p> <p>1720-1730 2532 (I): Systems thinking, sustainability and chemical industry: Advancing industry's role Bernard West, Canada</p> <p>1730-1800 Panel Discussion</p>	<p>15CS3-MR302 Analytical & Forensic</p> <p>Chairperson: Kumuthini Chandrasekaram, Malaysia</p> <p>1630-1700 1886 (K): Combined analytical methods for the structural characterization of isomers mixtures Aura Tintaru, France</p> <p>1700-1715 1432 (O): Investigation of antimicrobial effect of UVC against <i>Staphylococcus spp.</i> Mohd Yaman Idris, Malaysia</p> <p>1715-1730 2244 (O): Analysis of Volatile Organic Compounds (VOC) in selected cooking oils using headspace-GC/MS technique Raznim Arni Abd Razak, Malaysia</p> <p>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</p>	<p>15CS3-MR304 Environmental</p> <p>S17 Symposium - Carbon-Neutral Chemical Production Via Advanced Nanocatalysis</p> <p>Chairperson: Nabilah Saafie, Malaysia</p> <p>1630-1700 2329 (K): Catalysing sustainable chemical manufacturing Adam Lee, Australia</p> <p>1700-1715 2235 (O): Potassium-driven pathway modulation in CO₂ hydrogenation: Tuning ethanol and liquid fuels synthesis over FeCuAl catalyst Wenjie Xiang, Japan</p> <p>1715-1730 1996 (O): Pluronic F127-assisted synthesis of mesoporous FeNC as advanced electrocatalysts for oxygen reduction reaction Muhammad Amirul Aiman Abdul Rani, Malaysia</p> <p>1730-1745 2655 (O): CoNiCuRu/MWCNT catalyst achieving 43.3% energy efficiency for electrochemical ammonia production from nitrate Jinuk Choi, Korea, Rep.</p> <p>1745-1800 2654 (O): High-entropy transition metal dichalcogenide catalysts for urea oxidation Hyojung Lim, Korea, Rep.</p>	<p>15CS3-MR305 Environmental</p> <p>S17 Symposium - Carbon-Neutral Chemical Production Via Advanced Nanocatalysis</p> <p>Chairperson: Ong Wee-Jun, Malaysia Haw Choon Yian, Malaysia</p> <p>1630-1700 1701 (K): Photon-phonon co-driven conversion of CH₄ to C₂ Junwang Tang, China</p> <p>1700-1720 1892 (I): Mechanism on artificial photosynthesis of H₂O₂: A C₃N₄ surface study Pengxin Liu, China</p>	<p>15CS3-MR306 Polymer & Materials</p> <p>S18 Symposium - IKM-MRB Symposium on Elastomers and Latexes (IMSEL 2025)</p> <p>Chairperson: Ho Chee Cheong, Malaysia</p> <p>1630-1650 1954 (I): Resolving the microstructure of natural rubber and its influence on the mechanical properties Jinrong Wu, China</p> <p>1650-1710 2522 (I): Sustainable compounding: Innovations in green ingredients for the rubber industry Nadras Othman, Malaysia</p> <p>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</p> <p>1730-1800 1595 (K): Innovating natural latex: From scientific foundations to sustainable industrial applications Jitladda Sakdapipanich, Thailand</p>
1630-1800							

15 Jul, Tue	MR401	MR402	MR403	MR404	MR405	MR406	MR407	MR408	MR409	MR410
1400-1600	<p>15CS2-MR401 Green Chemistry</p> <p>S11 Symposium - IUPAC Contribution and Green Chemistry Contribution Innovations towards Sustainable Development</p> <p>Chairperson: Buxing Han, China</p> <p>1400-1405 Introduction to the Symposium S11</p> <p>1405-1435 1852 (K): Green approaches to recycling of polyester wastes into chemicals Zhimin Liu, China</p> <p>1435-1455 1320 (I): Toward green synthetic approaches of C6 bio-based platform chemicals Fabio Arico, Italy</p> <p>1455-1515 1893 (I): Green and controllable synthesis of porous functional materials and their application in water treatment Li Peng, China</p> <p>1515-1530 1261 (O): Chemical recycling of mixed textiles: An unexpensive alternative for the spandex issue Jose Jonathan Rubio Arias, Belgium</p> <p>1530-1550 2196 (I): Formic acid-assisted deoxygenation of fatty acids into green diesel, fatty-ketones and aldehydes Banothile Makhubela, South Africa</p> <p>1550-1605 2542 (O): Metal free visible light induced construction of multi nitrogen heterocycle compounds from azobenzene with diboron ester Li Dang, China</p>	<p>15CS2-MR402 Green Chemistry</p> <p>Chairperson: Lee Choy Sin, Malaysia</p> <p>1400-1420 2662(I): Sustainable solutions for recycling Jong Min Lee, Korea, Rep.</p> <p>1420-1435 2110 (O): Layered double hydroxide-supported palladium nanocatalysts in Suzuki-Miyaura coupling: A depth review Alyaa Kamal, Malaysia</p> <p>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</p> <p>1450-1505 2250 (O): Excited state management and device applications of high mobility emissive organic semiconductors Can Gao, China</p> <p>1505-1520 2283 (O): Cyclodextrin enhanced ultrasound-assisted extraction of bioactive compounds from <i>Zingiber montanum</i>: A green extraction method Bunleu Sunghong, Thailand</p> <p>1520-1535 2358 (O): FTIR-chemometric monitoring of biobased polyester synthesis use for personal care applications Emily Majanun, Malaysia</p> <p>1535-1550 2569 (O): Interfacial engineering toward stable Ah-level aqueous zinc batteries Lina Chen, China</p>	<p>15CS2-MR403 Inorganic & Bioinorganic</p> <p>Chairperson: Tan Kar Ban, Malaysia</p> <p>1400-1430 202 (K): Stoichiometric and catalytic reactions with N-heterocyclic carbene pincer ligands Pierre Braunstein, France</p> <p>1430-1450 1874 (I): Unlocking cobalt oxide's potential: Advancing photoelectrochemical hydrogen production beyond conventional materials Mohammad Kassim, Malaysia</p> <p>1450-1505 1466 (O): Amorphous catalysts for CO₂ electrocatalysis and selective formation of C1 and C2 products Akshayini Muthuperiyannayagam, United Kingdom</p> <p>1505-1520 1652 (O): Exceptionally stable metathesis catalysts for green chemistry Bartosz Trzaskowski, Poland</p> <p>1520-1535 1804 (O): Mixed-potential-driven catalysis: An electrochemical mechanism for room-temperature co-oxidation on gold catalysts Mo Yan, Japan</p> <p>1535-1550 2121 (O): Utilization of the electron-rich carboranes as unique basic catalysts in organic synthesis Peter Sramel, Czechia</p> <p>1550-1605 2475 (O): Synthesis, and biological evaluation of benzimidazole-based Cu(II) complexes: Spectral, DFT, and docking insights Muhamad Azwan Hamali, Malaysia</p>	<p>15CS2-MR404 Organic & Biomolecular</p> <p>S03 Symposium - Diradical Chemistry</p> <p>Chairperson: Manabu Abe, Japan</p> <p>1400-1410 Opening Manabu Abe, Japan</p> <p>1410-1430 700 (I): Light emission in diradicals and triradicals Juan Casado Cordon, Spain</p> <p>1430-1450 675 (I): Luminescence of assembled radicals Tetsuro Kusamoto, Japan</p> <p>1450-1510 679 (I): Elucidation of spin-correlated luminescence of a carbazole-containing diradical emitter under high magnetic fields Asato Mizuno, Japan</p> <p>1510-1530 572 (I): The influence of bridge states on the exchange interaction in bis-triarylamine biradical dications Christoph Lambert, Germany</p> <p>1530-1550 663 (I): The taming of <i>m</i>-xylylene type singlet diradicaloid by dispersion force Yoshito Tobe, Taiwan, China</p>	<p>15CS2-MR405 Education & Public Understanding</p> <p>Chairperson: Denis Zhilin, Russian Federation</p> <p>1400-1430 333 (K): Improving the public perception of science/chemistry through simple experiments connected with daily life Uday Maitra, India</p> <p>1430-1445 2351 (O): Chemistry on the go Hsien Chang Kao, Taiwan, China</p> <p>1445-1500 2199 (O): The ACS global recognition program as a catalyst to fostering cross border collaborations Wasiu Lawal, United States</p> <p>1500-1515 2201 (O): Chemical philately: The world of chemistry on postage stamps Daniel Rabinovich, United States</p> <p>S13 Symposium - Multi-Language Dictionary for Chemistry Education</p> <p>Chairperson: Denis Zhilin, Russian Federation</p> <p>1515-1535 1531 (I): Texts in chemistry education: Difficulties in translation Denis Zhilin, Russian Federation</p> <p>1535-1550 1690 (O): Turkish translation of multi-language dictionary of terms in chemistry education Mustafa Sozibilir, Turkiye</p>	<p>15CS2-MR406 Physical & Biophysical</p> <p>Chairperson: Chong Kwok Feng, Malaysia</p> <p>1400-1420 1814 (I): Doing chemistry sustainably Alison Rodger, Australia</p> <p>1420-1435 1505(O): Modulating mass transport under confinement via structural and interfacial designs Ningran Wu, China</p> <p>1435-1450 668(O): Solvation shifts the band edge position of Colloidal quantum dots by nearly 1 eV Yan B Vogel, Switzerland</p> <p>1450-1505 1834 (O): Lead Halide Perovskites for energy applications: Structural complexity and dynamics revealed by solid state NMR Elisa Carignani, Italy</p> <p>1505-1520 2037 (O): Electron-phonon coupling in two-dimensional lead halide perovskites Tufan Ghosh, India</p> <p>1520-1535 2125 (O): Nuclear quadrupole resonance for observing halides and their photoinduced segregation in mixed halide perovskites Silvia Borsacchi, Italy</p> <p>1535-1550 1071 (O): Redefining proton affinity for heteronuclear molecular species: Quantum chemical insights Emmanuel Etim, Nigeria</p>	<p>15CS2-MR407 Human Health & Well Being</p> <p>Chairperson: Awis Sukarni Mohmad Sabere, Malaysia</p> <p>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</p> <p>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</p> <p>1430-1445 2267 (O): The protective potential of curcumin analogues (PGV-5, HGV-5, THPGV-5, and THHG-5) on UVA-induced human dermal fibroblasts Rumiyati, Indonesia</p> <p>1445-1500 2579 (O): 3D printed biosponge adsorbers for capturing toxic chemotherapy drugs to reduce chemotherapy toxicities Hee Jeung Oh, United States</p> <p>1500-1515 1459 (O): Ticks repellents: A perspective for the creation of a control release materials Sergey Andreev, Russian Federation</p> <p>1515-1530 2652 (O): The potential trillion-ringgit economy treasure of palm oil vitamin E industry Nam Fong Hew, Malaysia</p>	<p>15CS2-MR408 TS10 Thematic Session - RSC Forum on Open Knowledge Dissemination</p> <p>Chairperson: Sara Bosshart, United Kindgom</p> <p>Speakers: Noorsaadah Abdul Rahman, Malaysia Arbain Arbain, Indonesia Mochammad Tanzil Multazam, Indonesia Karen Wilson, Australia Christine Luscombe, Japan</p> <p>1400-1410 Introduction to the workshop</p> <p>1410-1510 Regional Experiences with Open Access</p> <p>1510-1550 Sharing Challenges and Co-Creating Solutions</p> <p>1550-1600 Summary & Wrap-up</p>	<p>15CS2-MR409 TS4 Thematic Session - Workshop on Chemical Safety and Security</p> <p>By Invitation Only</p> <p>Chairperson: Nor Khaizura Mahmud Ab Rashid, Malaysia</p> <p>1400-1430 2228 (K): Quantum dots-based biosensor for food pathogen detection Jaafar Abdullah, Malaysia</p> <p>1430-1445 1742 (O): Development and optimization of an electrochemical biosensor for sensitive detection of zearalenone in food safety applications Nur Azura Mohd Said, Malaysia</p> <p>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</p> <p>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</p> <p>1515-1530 1937 (O): Utilization of nanocellulose-based nanocomposites from pineapple leaves for sustainable wastewater treatment in agriculture Azima Azmi, Malaysia</p> <p>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</p>	<p>15CS2-MR410 SDG2: Zero Hunger</p> <p>Advance Technologies in Food and Agriculture</p> <p>Chairperson: Nor Khaizura Mahmud Ab Rashid, Malaysia</p> <p>1400-1430 2228 (K): Quantum dots-based biosensor for food pathogen detection Jaafar Abdullah, Malaysia</p> <p>1430-1445 1742 (O): Development and optimization of an electrochemical biosensor for sensitive detection of zearalenone in food safety applications Nur Azura Mohd Said, Malaysia</p> <p>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</p> <p>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</p> <p>1515-1530 1937 (O): Utilization of nanocellulose-based nanocomposites from pineapple leaves for sustainable wastewater treatment in agriculture Azima Azmi, Malaysia</p> <p>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</p>

15 Jul, Tue	MR401	MR403	MR404	MR405	MR406	MR408	MR409	MR410
1630-1800	<p>15CS3-MR401 Green Chemistry</p> <p>S11 Symposium - IUPAC Contribution and Green Chemistry Contribution Innovations towards Sustainable Development</p> <p>Chairperson: Zhimin Liu, China</p> <p>1630-1635 Introduction to the Symposium S11</p> <p>1635-1705 2208 (K): Direct and indirect hotspots as priorities for green chemistry research Philip Jessop, Canada</p> <p>1705-1725 1586 (I): The global conversation on sustainability: An IUPAC/IYCN joint effort towards a more sustainable future through chemistry Joao Borges, Portugal</p> <p>1725-1745 1851 (I): Towards greener chemistry: Developing benign approaches in organic synthesis Pranjal Kumar Baruah, India</p> <p>1745-1800 968 (O): Direct dissolution of Lignocellulosic biomass by malonic acid-DBU for high-performance all-biomass films Lifeng Yan, China</p>	<p>15CS3-MR403 Inorganic & Bioinorganic</p> <p>Chairperson: Sumiyah Sabar, Malaysia</p> <p>1630-1700 2599 (K): Plasmonic and magnetic nanoparticles for biomedical applications Thanh Thi Kim Nguyen, United Kingdom</p> <p>1700-1715 2391 (O): Ruthenium catalysts for hydrogen production from formic acid: Catalytic evaluation and mechanistic insights Cassiem Joseph, South Africa</p> <p>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</p> <p>1730-1745 1960 (O): Development of new recyclable catalysts for simple organic transformations Muhammad Dabai Bala, Nigeria</p> <p>1745-1800 1286 (O): Metal amino-bis (phenolate) complexes as catalysts for copolymerization of carbon dioxide, epoxides and anhydrides Christopher Kozak, Canada</p>	<p>15CS3-MR404 Organic & Biomolecular</p> <p>S03 Symposium - Diradical Chemistry</p> <p>Chairperson: Christoph Lambert, Germany</p> <p>1630-1650 664 (I): Open-shell electronic structures and properties of π-stacks of diradicaloids Ryohei Kishi, Japan</p> <p>1650-1710 665 (I): Theoretical study of electron conductivity of open-shell system and its application Yasutaka Kitagawa, Japan</p> <p>1710-1730 661 (I): A plumb triplet carbene and photophysics with carbene-based diradicaloids Dominik Munz, Germany</p> <p>1730-1750 1777 (I): Low-coordinated germanium in the ring: Unusual structures and reactivity Yoshiyuki Mizuhata, Japan</p>	<p>15CS3-MR405 Education & Public Understanding</p> <p>S21 Symposium - CTI Workshop</p> <p>Chairperson: Mustafa Sozibilir, Turkiye</p> <p>1630-1730 1849 (I): Workshop: How to publish in Chemistry Teacher International Mustafa Sozibilir, Turkiye</p>	<p>15CS3-MR406 TS11 Thematic Session - IYCN/ MYCN Young Chemist Programme</p> <p>IUPAC-Young Scientists Safety Training Workshop</p> <p>Chairperson: Lovish Raheja, India Khor Sook Mei, Malaysia</p> <p>1630-1645 Introduction Gracia Maria Romero Saravia, Honduras Bipul Behari Saha, India Tien Thuy Quach, United Kingdom</p> <p>1645-1705 Safety in Chemistry Bipul Behari Saha, India</p> <p>1705-1725 Safety from the Perspective of a Young Chemists Process Safety Across the Chemical Engineering Curriculum Ayush Agarwal, Switzerland</p> <p>1725-1745 IUPAC COCI Safety Training Program (STP) Gracia Maria Romero Saravia, Honduras</p> <p>1745-1800 Group Discussion and Perspectives</p> <p>Group Picture</p>	<p>15CS3-MR408 TS9 Thematic Session - ACS on Campus</p> <p>Chairperson: Lee Hooi Ling, Malaysia</p> <p>1630-1715 Demystifying Scientific Collaboration Hooi Ling Lee, Malaysia</p> <p>1715-1800 Mentor-Mentee Relationships Mohd Bakri Bakar, Malaysia</p>	<p>15CS3-MR409 TS4 Thematic Session - Workshop on Chemical Safety and Security</p> <p>By Invitation Only</p> <p>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</p> <p>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</p> <p>1700-1715 1943 (O): Intrinsic quality of stingless bee honeys of Sarawak Margaret Abat, Malaysia</p> <p>1715-1730 2247 (O): Assessment of the nutritional content in locally grown vegetables and their significance in public health Waziha Farha, Bangladesh</p> <p>1730-1745 2163 (O): Oils extracted from insect biomass for food applications Luis Branco, Portugal</p>	<p>15CS3-MR410 SDG2: Zero Hunger</p> <p>Food Chemistry and Analysis</p> <p>Chairperson: Nur Azura Mohd Said, Malaysia</p>

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	Plenary Session at CH1&2	Plenary Session at CH1&2	Plenary Session at CH1&2	Plenary Session at CH1&2	Plenary Session at CH1&2	Plenary Session at CH1&2
		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	Plenary Session at CH1&2	Plenary Session at CH1&2	Plenary Session at CH1&2	Plenary Session at CH1&2
1240-1400	LUNCH			LUNCH	LUNCH	LUNCH	LUNCH
VENUE	CH1&2	CH3	MR302	MR303	MR304	MR305	MR306

16 July, Wed	CH1&2	CH3	MR302	MR303	MR304
	<p>16CS3-CH1&2 Polymer & Materials</p> <p>S22 Symposium - Biopolymers and Sustainability</p> <p>Chairperson: Cindy Tan, Malaysia</p> <p>1630-1645 1650 (O): Sorption kinetics and diffusion behaviour of post-characterized, biomodified waste PET (RIC-1) bottles composites Onyinyechi Aliene, Nigeria</p> <p>1645-1705 2217 (I): Enhancing the performance of poly(lactic acid)-clay nanocomposites: Montmorillonite modification for sustainability Wan Md Zin Wan Yunus, Malaysia</p> <p>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</p> <p>1725-1745 2444 (I): Biowaste-derived composite membranes for oil/water separation: Modification, fabrication, characterization, and performance evaluation Rizafizah Othaman, Malaysia</p>	<p>Council Meeting</p>	<p>16CS3-MR302 Analytical & Forensic</p> <p>Chairperson: Yew Chong Hooi, Malaysia</p> <p>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</p> <p>1645-1700 1419 (O): Application of carbon nanomaterials in ultra-trace analysis using total-reflection x-ray fluorescence spectrometry Rafal Sitko, Poland</p> <p>1700-1715 1507 (O): AI-guided smart chromatography system Boxuan Zhao, China</p> <p>1715-1730 2392 (O): Determination of hexamethylenetetramine in strongly acidic industrial pickling solutions by capillary zone electrophoresis Cristina Botas, Spain</p> <p>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</p> <p>1745-1800 684 (O): Radial flow stream splitting for improved separation and workflow for a greener approach to astaxanthin analysis Karin Luize Mazur, Australia</p>	<p>16CS3-MR303 Environmental</p> <p>S20 Symposium - Chemical of Emerging Concern (CECs) in Polar Environments</p> <p>Chairperson: Roland Kallenborn, Norway</p> <p>1630-1650 1205 (I): The polar regions as sentinel regions for investigating climate organic pollutant interactions Roland Kallenborn, Norway</p> <p>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</p> <p>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</p> <p>1730-1750 2316 (I): Antarctica's chemical voyagers: Building a framework for policy advice Susan Bengtson Nash, Australia</p> <p>1750-1810 2515 (I): Shifts in pesticide contamination in Arctic fjords: A pre- and post-COVID assessment Anu Gopinath, India</p>	<p>16CS3-MR304 Environmental</p> <p>S17 Symposium - Carbon-Neutral Chemical Production Via Advanced Nanocatalysis</p> <p>Chairperson: Nabilah Saafie, Malaysia Haw Choon Yian, Malaysia</p> <p>1630-1650 2457 (I): Ammonia synthesis mechanism over ruthenium-based catalysts under high-pressure reaction conditions Shuai Wang, China</p> <p>1650-1710 2216 (I): Engineered catalysts for green hydrogen peroxide production Xiangkang Zeng, Australia</p> <p>1710-1730 2517 (I): Dehydrogenative and hydrogenative catalysis for the synthesis and recycling of polymers Amit Kumar, United Kingdom</p> <p>1730-1750 2523 (I): Preparation of furan platform molecules from (hemi)cellulose and their downstream conversion Xianhai Zeng, China</p> <p>1750-1805 2266 (O): Catalyst shaping formulation for catalytic reactions in fixed bed reactor Nik Muhammad Syafiq Nik Mohd Adnan, Malaysia</p>
1900-2200	<p>CONGRESS GALA DINNER @ Grand Ballroom, Shangri-La Hotel</p>				

16 JULY 2025, WEDNESDAY – LEVEL 4

All the meeting rooms are in Kuala Lumpur Convention Centre: **MR** = Meeting Room (MR3xx located at Level 3; MR4xx located at Level 4) | **CH** = Conference Hall, Level 3 | **Suite** = located at Level 3 | **TS** = Thematic Session

VENUE	MR401	MR402	MR403	MR404	MR405	MR406	MR407	MR408	MR409	MR410
0900-1030	<p>16CS1-MR401 Green Chemistry</p> <p>Chairperson: Javier Perez-Ramírez, Switzerland</p> <p>0900-0930 2043 (K): Green & sustainable chemistry for maximising agricultural productivity Antonio Patti, Australia</p> <p>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</p> <p>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</p> <p>1000-1015 1576 (O): Upcycling discarded cotton clothing into lightweight materials using cellulose nanofibrils Maria Ximena Ruiz Caldas, Sweden</p> <p>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</p>	<p>16CS1-MR402 Analytical & Forensic</p> <p>Agilent Session</p> <p>Chairperson: Jenny Lee, Malaysia</p> <p>0900-0930 2753 (K): Shaping the future of analytical science: Precision, speed, and sustainability Chee Sian Gan, Singapore</p> <p>0930-0945 2754 (O): Tracking forever chemicals using LCMS and GCMS: A complementary approach for comprehensive detection Poh Wei Tan, Malaysia</p>	<p>16CS1-MR403 Inorganic & Bioinorganic</p> <p>Chairperson: Yang Farina Abdul Aziz, Malaysia</p> <p>0900-0930 2231 (K): Visible-emitting rare earth complexes for sensing and solar energy conversion Lidia Armelao, Italy</p> <p>0930-0945 2450 (O): Dioxxygen activation by palladium(I) radicals Ernesto De Jesus, Spain</p> <p>0945-1000 2497 (O): Quantifying the electronic properties of n-heterocyclic carbene ligands using selenium NMR spectroscopy Mohamad Shazwan Shah Jamil, Malaysia</p> <p>1000-1015 1451 (O): Surface organometallic chemistry for single-atom catalysis Pengxin Liu, China</p> <p>1015-1030 1332 (O): Development of gold-based organometallic compounds as potential anticancer agents Katleho Setlaba, South Africa</p>	<p>16CS1-MR404 Organic & Biomolecular</p> <p>S03 Symposium - Diradical Chemistry</p> <p>Chairperson: Dominik Munz, Germany</p> <p>0900-0920 674 (I): Photoreactivity and photodynamic behaviour of polycyclic azides Anna Gudmundsdottir, United States</p> <p>0920-0940 366 (I): Is π-single bonding (c-π-c) possible? A challenge in organic chemistry Manabu Abe, Japan</p> <p>0940-1000 565 (I): Controlling multiple selectivity in radical-radical combinations Chao Zheng, China</p> <p>1000-1020 669 (I): Diradicaloid Σ- and Π-bonds Takashi Kubo, Japan</p> <p>1020-1040 678 (I): Stable and isolable diradicals with Oligo(9,10-anthrylene)s Yusuke Ishigaki, Japan</p>	<p>16CS1-MR405 TS3 Thematic Session - Green Chemistry in Education</p> <p>Chairperson: Mageswary Karpudewan, Malaysia</p> <p>0900-0930 2060 (K): Green chemistry in education: A model for sustainable chemistry teacher training and curriculum innovation Mageswary Karpudewan, Malaysia</p> <p>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</p> <p>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</p> <p>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</p>	<p>16CS1-MR406 Physical & Biophysical</p> <p>Chairperson: Saiful Arifin Shafiee, Malaysia</p> <p>0900-0915 2123 (O): Insights into the DNA-binding mechanism of Cren7: A resilient protein from harsh environments Soumit Sankar Mandal, India</p> <p>0915-0930 2459 (O): Design and synthesis of photocontrollable probes for amyotrophic lateral sclerosis studies Jen Tse Huang, Taiwan, China</p> <p>0930-0945 1799 (O): Nuclease-Induced Stepwise Photodrooping (NISP) to precisely investigate single-stranded DNA degradation behaviors of exonucleases and endonucleases Hsiufang Fan, Taiwan, China</p> <p>0945-1000 1259 (O): The interplay of lipid bilayer forces and elasticity. The bilayer response to small molecule solvation Adriana Sturcova, Czechia</p> <p>1000-1015 2564(O): Ultrafast dynamics of damaged DNA repair by a dual function cryptochrome Dongping Zhong, China</p> <p>1015-1030 1563 (O): Quadrupolar-driven donor-acceptor π-systems: Tuning the order-dependent properties of optoelectronic biomolecular coassemblies Sheng Wei Tang, United States</p>	<p>16CS1-MR407 TS1 Thematic Session - Artificial Intelligence in Chemistry</p> <p>Chairperson: Sim Siong Fong, Malaysia</p> <p>0900-0930 2661 (K): Integration of AI tools into chemistry research Ananikov Valentine, Russian Federation</p> <p>0930-0950 1493 (I): Automated machine learning workflows and their applications to low-data chemical problems Juan Vicente Alegre Requena, Spain</p> <p>0950-1010 1787 (I): Applications of Self-Organizing Maps (SOMS) in chemistry: From classification to regression Kanet Wongravee, Thailand</p> <p>1010-1030 1349 (I): Artificial neural networks for the analysis of microscopy data Anna Nartova, Russian Federation</p>	<p>16CS1-MR408 TS7 Thematic Session - Professional and Responsible Practices in Chemistry Including Responsible Care</p> <p>Symposium on Chemistry as a Profession in Malaysia</p> <p>Chairperson: Chang Hon Fong, Malaysia</p> <p>0900-0905 Welcome Remarks & Introduction Chang Hon Fong, Malaysia</p> <p>0905-0915 The Role of IKM in Promoting and Safeguarding the Chemistry Profession Chang Hon Fong, Malaysia</p> <p>0915-0925 Careers in the Chemical Industry Muhtar Hashim, Malaysia</p> <p>0925-0935 Chemists in Government Service – their vital contributions and impacts Siti Nur Nazathul Shima Hashim, Malaysia</p> <p>0935-0945 Research & Development Opportunities for Chemists in Industry and Academic Institutions Fatimah Salim, Malaysia</p> <p>0945-1015 Panel Discussion & Forum Dialogue</p> <p>1015-1030 Audience Q&A and Closing Remarks</p>	<p>16CS1-MR409 TS4 Thematic Session - Symposium on Chemical Safety and Security</p> <p>Chairperson: Lee Hooi Ling, Malaysia</p> <p>0900-0910 Symposium Welcome</p> <p>0910-1000 2787 (K): Strengthening chemical security: From policy to practice Christine Straut Langlains, United States</p> <p>1000-1015 1734 (O): An application of contemplative education for promoting safety culture in chemical laboratories Wisa Supanpaiboon, Thailand</p> <p>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</p>	<p>16CS1-MR410 SDG13: Climate Action</p> <p>Chairperson: Jeyanny Vijayanathan, Malaysia</p> <p>0900-0930 1805 (K): Rising to challenge: Harnessing chemistry for climate action and sustainable future Elizabeth Philip, Malaysia</p> <p>0930-0945 1523 (O): Sustainable solid waste management with online self-regulated learning among primary school students Nilavathi Balasundram, Malaysia</p> <p>0945-1000 2441 (O): Sustainable biopolymer production: Transforming oil palm waste into PEG-co-FDCA Pushpamalar Janarthanan, Malaysia</p> <p>1000-1015 1790 (O): Enhancing gas separation performance in PSF/ZTC mixed matrix membranes through heat treatment Wijiyanti Rika, Indonesia</p> <p>1015-1035 1988 (I): Atmospheric chemistry prediction initiatives in Malaysia Maggie Chel Gee Ooi, Malaysia</p>

					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					
1030-1100	AM TEA BREAK	AM TEA BREAK	AM TEA BREAK	AM TEA BREAK	AM TEA BREAK	AM TEA BREAK	AM TEA BREAK	AM TEA BREAK	AM TEA BREAK	AM TEA BREAK
1100-1240	Plenary Session at CH1&2	Plenary Session at CH1&2	Plenary Session at CH1&2	Plenary Session at CH1&2	Plenary Session at CH1&2	Plenary Session at CH1&2	Plenary Session at CH1&2	Plenary Session at CH1&2	Plenary Session at CH1&2	Plenary Session at CH1&2
1240-1400	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
VENUE	MR401	MR402	MR403	MR404	MR405	MR406	MR407	MR408	MR409	MR410

16 July, Wed 1600-1630	MR401	MR402	MR403	MR405	MR406	MR407	MR409	MR410
	PM TEA BREAK	PM TEA BREAK	PM TEA BREAK	PM TEA BREAK	PM TEA BREAK	PM TEA BREAK	PM TEA BREAK	PM TEA BREAK
	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 LiCoO ₂ 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)formimidamide 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 Jiayang 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 CO ₂ conversion to C ₂ 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
VENUE	Shangri-La Hotel							
1900-2200	CONGRESS GALA DINNER @ Grand Ballroom, Shangri-La Hotel							

17 JULY 2025, THURSDAY – LEVEL 3

All the meeting rooms are in Kuala Lumpur Convention Centre: **MR** = Meeting Room (MR3xx located at Level 3; MR4xx located at Level 4) | **CH** = Conference Hall, Level 3 | **Suite** = located at Level 3 | **TS** = Thematic Session

VENUE	CH1&2	CH3	MR302	MR303	MR304	MR305	MR306
	<p>17CS1-CH1&2 Polymer & Materials</p> <p>S18 Symposium - IKM-MRB Symposium on Elastomers and Latexes (IMSEL 2025)</p> <p>Chairperson: Atsushi Kajiwara, Japan</p> <p>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</p> <p>0915-0930 2470 (O): Sustainable biobased thermosets from poly (1,8-octanediol-glycerol-1,12-dodecanedioic-itaconic acid) Najwa Wajihah Mohd Rusli, Malaysia</p> <p>0930-0950 2747 (I): Catechin-rich <i>Uncaria gambir</i> as a dual-function antioxidant and co-crosslinking agent in natural rubber latex films Hakimah Osman, Malaysia</p> <p>0950-1010 2669 (I): Natural Rubber Latex (NRL) waste effluent and Hevea protein purification: A microscopic study Hairani Tahir, Malaysia</p> <p>1010-1040 2258 (K): Advancements, modifications, and trends in natural rubber chemistry: From molecular innovations to practical applications Seng Neon Gan, Malaysia</p>	<p>17CS1-CH3 TS8 Thematic Session - PhosAgro/ UNESCO/ IUPAC Symposium Green Chemistry: Experiences and Opportunities for Co-operation for Sustainable Future</p> <p>0800-0845 Opening</p> <p>Welcome Statements Lidia Brito, Mozambique Siroj Loikov, Russian Federation Christopher Brett, Portugal Soon Ting Kueh, Malaysia H.E Naiyl M. Latypov, Russian Federation</p> <p>Signature of Co-operation Agreement</p> <p>Awarding of Certificates</p> <p>Session I PhosAgro/UNESCO/IUPAC Partnership in action</p> <p>Chairperson: Natalia Tarasova, Russian Federation</p> <p>0845-0900 Introductory Lecture Paul T Anastas, United States</p> <p>0900-0915 Electrochemistry as an enabling technology in green chemistry and sustainability Christopher Brett, Portugal</p> <p>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</p> <p>0930-0945 Catalysis at the Crossroads: Turning Waste into Wealth for a Sustainable Future Ning Yan, Singapore</p> <p>0945-1000 Biocatalyst for Eco-Friendly and Sustainable Zero-Waste Leather Manufacturing and Keratin Waste Valorization Wycliffe Chisutia Wanyonyi, Kenya</p> <p>1000-1015 Harnessing the Tiny Pores to Solve the Biggest Challenges: Simultaneous Critical metals and Pure Water Recovery Hamdy Hefny, Egypt</p>	<p>17CS1-MR302 Analytical & Forensic</p> <p>Chairperson: Mohd Sani Bin Sarjadi, Malaysia</p> <p>0900-0930 265 (K): Analytical chemistry in courts of law Brynn Hibbert, Australia</p> <p>0930-0945 2158 (O): Bridging analytical methods and practical solutions: Accurate quantification of siloxanes and sulphur in biogas Ayush Agarwal, Switzerland</p> <p>0945-1000 1863 (O): [BMIM]Cl-AgNPs immobilized on eggshell membrane for determination of Sulfamethoxazole in environmental water Nur Azila Mhd Wahi, Malaysia</p> <p>1000-1015 1369 (O): Retrospective analysis of Volatile Organic Compounds (VOCS) in drinking water Kar Weng Chan, Malaysia</p> <p>1015-1035 2081 (I): Thermal management of Metal Hydride reactor Ying Xu, New Zealand</p>	<p>17CS1-MR303 Environmental</p> <p>S17 Symposium - Carbon-Neutral Chemical Production Via Advanced Nanocatalysis</p> <p>Chairperson: Haw Choon Yian, Malaysia Ong Wee-Jun, Malaysia</p> <p>0900-0930 2546 (K): The interplay between plasmonics and electrochemistry Bin Ren, China</p> <p>0930-1000 2544 (K): Carbon-based metal-free electrocatalysts for clean energy conversion and environmental remediation Liming Dai, Australia</p> <p>1000-1020 2335 (I): Plasmon-mediated electrochemical processes Chao Zhan, China</p>	<p>17CS1-MR304 Environmental</p> <p>S05 Symposium - Evaluation of Advanced Technologies for Carbon Sequestration, Utilisation and Capture</p> <p>Chairperson: Diane Purchase, United Kingdom</p> <p>0900-0930 1813 (K): Research on energy transition and security based on digital technology model for China Peng Wang, Japan</p> <p>0930-0950 1401 (I): Toray group's GHG reduction initiatives Tsuneyuki Yamane, Japan</p> <p>0950-1005 1592 (O): Dow amines: From production to CO₂ capture applications Xue Chen, United States</p> <p>1005-1020 1392 (O): Amine-functionalized hierarchically porous porphyrin-based metal-organic frameworks for highly enhanced direct air capture of CO₂ Shanshan Shang, China</p> <p>1020-1035 1494 (O): MnO nanoparticles for CO₂ capture: Influence of nanoparticle size on adsorption performance Syawal Mohd Yusof, Malaysia</p>	<p>17CS1-MR305 Environmental</p> <p>Chairperson: Kobe Tang Man Chung, Malaysia</p> <p>0900-0920 1771 (I): Microplastics at the interface: Estuarine convergence, benthic biofilms, and co-pollutants-driven impact Mui Choo Jong, China</p> <p>0920-0935 2013 (O): Sustainable duckweed derived adsorbents for wastewater treatment Alvin Lim Teik Zheng, Malaysia</p> <p>0935-0950 2050 (O): Photodegradation pathway of Bisphenol S by titanium dioxide under UVA irradiation Sharon Fatinathan, Malaysia</p> <p>0950-1005 2536 (O): Research on electrocatalytic CO₂ reduction reaction using functional coal-based carbon materials Lang Xu, China</p> <p>1005-1020 2556 (O): C-Au@TiO₂ nanocomposite for enhanced photodegradation of commercial henna dye Balakrishnan Karthikeyan, India</p>	<p>17CS1-MR306 Polymer & Materials</p> <p>Chairperson: Sharina Abu Hanifah, Malaysia</p> <p>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.</p> <p>0915-0930 1485 (O): Highly durable and reversible H₂PO₄ and HNSO₃ mixed acid additive for vanadium redox flow battery electrolyte solutions Gyung Min Hwang, Korea, Rep.</p> <p>0930-0945 1546 (O): The study of polyaniline ternary nanocomposite on the photocatalytic degradation of toxic dye Wai Leon Low, Malaysia</p> <p>0945-1000 570 (O): Synthesizing polyfluorenes sustainably Roger Clive Hiorns, United Kingdom</p> <p>1000-1030 2265 (K): Alginate-based microspheres for encapsulation of pancreatic islets in diabetes treatment Igor Lacik, Slovak Republic</p>
0900-1030							

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

17 Jul, Thu	MR401	MR402	MR403	MR404	MR405	MR406	MR407	MR408	MR409	MR410
1400-1600	<p>17CS2-MR401 Green Chemistry</p> <p>S16 Symposium -Towards a Sustainable Future: Engaging Society for a Systemic Change</p> <p>Chairperson: Joao Borges, Portugal Juliana Vidal, Brazil</p> <p>1400-1410 Introduction to the Symposium S16</p> <p>1410-1440 1260 (K): Building a global, inclusive community to tackle sustainability Francesca Kerton, Canada</p> <p>1440-1500 1321 (I): Engaging learners through the benefits and challenges of plastics towards achieving the UN SDGs Jane Wissinger, United States</p> <p>1500-1515 1161 (O): Galactaric acid as bio-based platform chemical Giacomo Trapasso, Italy</p> <p>1515-1530 1770 (O): From trash to suds: Tandem upcycling of waste polyolefin plastics to detergents Zhen Xu, China</p> <p>1530-1545 2437 (O): Sustainable catalytic supports from insect-based chitosan via mechanochemistry Ana Paula Da Costa Ribeiro, Portugal</p> <p>1545-1600 2767 (O): Case study for promoting positive research and education Tien Thuy Quah, United Kingdom</p>	<p>17CS2-MR402 Organic & Biomolecular</p> <p>S02 Symposium –Organic Mechanochemistry</p> <p>Chairperson: Davor Margetic, Croatia</p> <p>1400-1401 Opening Davor Margetic, Croatia</p> <p>1400-1430 1350 (K): Sustainable preparation of WHO essential medicines by mechanochemistry Evelina Colacino, France</p> <p>1430-1450 762 (I): Mechanochemistry for revolutionary efficient synthesis organic and organometallic compound Hajime Ito, Japan</p> <p>1450-1510 2207 (I): Recent advances in mechanochemical organic reactions Guan Wu Wang, China</p> <p>1510-1530 1380 (I): Reaction paths in organic mechanochemistry by in-situ monitoring Ivan Halasz, Croatia</p> <p>1530-1550 681 (I): Organic mechanochemistry – past, present and future Davor Margetic, Croatia</p>	<p>17CS2-MR403 Inorganic & Bioinorganic</p> <p>Chairperson: Mohammad Kassim, Malaysia</p> <p>1400-1430 1757 (K): Perovskite barium tantalum oxynitride: From materials synthesis to solar water splitting Mirabbos Hojamberdiev, Denmark</p> <p>1430-1450 1375 (I): Designing transition metal-based nanostructures for sustainable photo-catalysis Kalyanjyoti Deori, India</p> <p>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</p> <p>1505-1520 2464 (O): Innovative nanostructured derivatives of zinc(II) and copper (II) phthalocyanine ligated with piperidine for photodetection applications Furkan Isik, Turkiye</p> <p>1520-1535 2059 (O): Structural diversity of lanthanide complexes functional to their separation and recovery Luciano Marchio, Italy</p> <p>1535-1550 2322 (O): Isoindoline-1,3-diimine derivatives and their metal complexes Ales Ruzicka, Czechia</p> <p>1550-1605 1437 (O): Pt(III) complexes with bidentate (imino)pyridine: Synthesis, characterization, reactivity towards thiol, DNA interactions and cytotoxicity studies Tshephiso Papo, South Africa</p>	<p>17CS2-MR404 Organic & Biomolecular</p> <p>S04 Symposium – A.I. Guided Automation in Synthetic Processes</p> <p>Chairperson: Laura Russo, Italy</p> <p>1400-1430 1287 (K): Fasten robotic synthesis of biopolymers by AI guided prediction Laura Russo, Italy</p> <p>1430-1450 1430 (I): Transforming synthetic chemistry with an integrated hardware-software AI chemist system Kuangbiao Liao, China</p> <p>1450-1510 1358 (I): Automation in chromatographic separation Fanyang Mo, China</p> <p>1510-1525 2562 (O): Moleprinter: Fully automatic workstation of repetitive synthesis Changxu Lin, China</p> <p>1525-1545 2704 (I): MaterialEyes - Seeing the invisible using experiment, theory, and AI Maria Chan, United States</p>	<p>17CS2-MR405 TS11 Thematic Session - IYCN/MYCN Young Chemist Programme</p> <p>Chairperson: Oliver Thomas, United Kingdom Mohd Azlan Kassim, Malaysia Brian Li, United Kingdom Yvonne Shuen Lann Choo, Malaysia</p> <p>1400-1445 RSC Roadshow Grant Applications Andrew Shore, United Kingdom</p> <p>Insights into RSC Publishing Brian Li, United Kingdom</p> <p>1445-1600 Roundtable: Mapping the Future of Young Chemists Tien Thuy Quach, United Kingdom Fatimah Salim, Malaysia Noah Al Shamery, Singapore Lydia Rhyman, Mauritius</p>	<p>17CS2-MR406 SDG3: Good Health & Well Being</p> <p>Chairperson: Ibrahim Jantan, Malaysia</p> <p>1400-1415 1735 (O): Evaluating the safety of herbal medicines: Current challenges and regulatory perspectives Md Rausan Zamir, Bangladesh</p> <p>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</p> <p>1430-1445 1390 (O): Biflavonoids from <i>Araucaria</i> as a potential PDE4 inhibitors: In silico and in vitro studies Nafisah Nafisah, Indonesia</p> <p>1445-1500 1695 (O): In-silico prediction of biflavonoids from Indonesian <i>Araucaria cunninghamii</i> Mudie as non-covalent proteasome inhibitors Luthfan Irfana, Indonesia</p> <p>1500-1515 1620 (O): Cytotoxic properties of biflavonoids from Indonesian <i>Araucaria</i>: A potential lead for anticancer therapy Purwantiningsih, Indonesia</p> <p>1515-1530 2776 (O): Structural characterization and bioactivity evaluation of plant-derived polysaccharides: A potential therapeutic management for diabetes Muhammad Hasnun Md Yusoff, Malaysia</p>	<p>17CS2-MR407 TS1 Thematic Session - Artificial Intelligence in Chemistry</p> <p>Chairperson: Aishah Abdul Aziz, Malaysia</p> <p>1400-1420 982 (I): AI for learning across chemical space and quantum chemical methods Pavlo Oleksandrovych Dral, Germany</p> <p>1420-1440 2058 (I): Machine learning aided charge transport dynamics Chaoping Hsu, Taiwan, China</p> <p>1440-1500 1796 (I): Machine learning for protein identification and biomarker discovery in mass spectrometry-based proteomics Mark Ivanov, Russian Federation</p> <p>1500-1515 1654 (O): Predicting co adsorption on multi-elemental alloy nanoparticle using machine learning Susan Aspera, Japan</p> <p>1515-1530 2460 (O): Chemistry students' awareness of Artificial Intelligence (AI)-enhanced learning Habiddin, Indonesia</p>	<p>17CS2-MR408 SDG6: Clean Water & Sanitation</p> <p>Chairperson: Nur Izzati Md Saleh, Malaysia</p> <p>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</p> <p>1415-1430 1645 (O): Analytical, modelling and nanotechnology techniques for water quality management Jane Catherine Ngila, South Africa</p> <p>1430-1445 1901 (O): Indium oxide/gold/carbon nanocomposite for efficient visible light driven photodegradation of dyes Teck Hock Lim, Malaysia</p> <p>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</p> <p>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</p> <p>1515-1530 2248 (O) Eco-friendly enzyme wash on Denim garments and economic prospects Waziha Farha, Bangladesh</p>	<p>17CS2-MR409 TS4 Thematic Sessions - Symposium on Chemical Safety and Security</p> <p>Chairperson: Maurice Payne, United States</p> <p>1400-1420 1639 (I): Applying product stewardship for chemical security Muhammad Anas Danial Ismail, Malaysia</p> <p>1420-1435 2052 (O): Chemical safety and security regulatory compliance in Indonesia Ikawati Suryani, Indonesia</p> <p>1435-1450 1918 (O): Enhancing chemical safety in Thailand: Incident analysis and key lesson for industrial practices Ongart Thanetnit, Thailand</p> <p>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</p> <p>1505-1600 Panel Session Symposium Conclusion</p>	<p>17CS2-MR410 SDG7: Affordable & Clean Energy</p> <p>Chairperson: Hayyiratul Fatimah Mohd Zaid, Malaysia</p> <p>1400-1420 2449 (I): In-situ study of nanocatalytic reactions using surface-enhanced Raman spectroscopy Hua Zhang, China</p> <p>1420-1440 2439 (I): Optimizing 3D functionalized graphene for supercapacitor electrode Kwok Feng Chong, Malaysia</p> <p>1440-1455 2426 (O): Local electron band structure regulation facilitates efficient photo-thermal catalysis of CO₂ methanation over Ni-ceria catalyst Zhenyu Zhang, China</p> <p>1455-1510 925 (O): Sustainable energy solutions: Optimizing biodiesel production through heterogeneous catalysis using ZnO/SiO₂ from agricultural waste Abd Rahman Marlan, Indonesia</p> <p>1510-1525 2373 (O): Local-structure and chemical-order modulation of HEAs for enhanced OER performance Xindong Zhu, China</p> <p>1525-1540 2194 (O): Transition to a clean energy future by decentralizing hydrogen production Joaquim Faria, Portugal</p> <p>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</p>

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1600-1630	PM TEA BREAK	PM TEA BREAK	PM TEA BREAK	PM TEA BREAK	PM TEA BREAK	PM TEA BREAK	PM TEA BREAK	PM TEA BREAK	PM TEA BREAK	PM TEA BREAK
17 Jul, Thu	MR401	MR402	MR403	MR404	MR405	MR406	MR407	MR408	MR409	MR410

17 Jul, Thu	MR401	MR402	MR403	MR404	MR405	MR406	MR409	MR410
	17CS3-MR401 Green Chemistry	17CS3-MR402 Organic & Biomolecular	17CS3-MR403 Inorganic & Bioinorganic	17CS3-MR404 Organic & Biomolecular	17CS3-MR405 TS11 Thematic Session - IYCN/MYCN Young Chemist Programme	17CS3-MR406 SDG3: Good Health & Well Being	17CS3-MR409 TS7 Thematic Session - Professional and Responsible Practices in Chemistry Including Responsible Care	17CS3-MR410 SDG7: Affordable & Clean Energy
	Chairperson: Juliana Vidal, Brazil	Chairperson: Rozida Mohd Khalid, Malaysia	Chairperson: Nurul Huda Abd Karim, Malaysia	Chairperson: Jordi Poater, Spain	Chairperson: Ayush Agarwal, Switzerland Sharon Fatinathan, Malaysia Onyinyechi Aliene, Nigeria Shahrul Nizam Ahmad, Malaysia	Chairperson: Fatimah Salim, Malaysia	Chairperson: Javier Garcia Martinez, Spain	Chairperson: Chong Kwok Feng, Malaysia
	1630-1645 1900 (O): Synthesis of non-noble metal catalysts for H ₂ O ₂ electrosynthesis Wenchao Peng, China	1630-1650 2520 (I): Development of artificial water channels through small-molecule self-assembly Pinaki Talukdar, India	1630-1645 1324 (O): Optimal electronic structure of Ru-based electrocatalysts for hydrogen oxidation reaction Licheng Wei, China	1630-1645 1313 (O): Synthesis and isomerization of azobenzene-cycloparaphenylene macrocycles for responsive materials Wei Tzu Huang, Taiwan, China	1630-1715 Professional Development 1: Education & Volunteering for Future Chemists João Borges, Portugal Fun Man Fung, Ireland Rui A Goncalves, Singapore	1630-1650 984 (I): Development of better Bedaquiline for multi-drug-resistant tuberculosis Peter Choi, New Zealand	1630-1650 2596 (I): Building a responsible and inclusive future in chemistry Javier Garcia Martinez, Spain	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 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	1650-1705 1926 (O): Cycloaddition reactions: Experimental and computational approaches Lydia Rhyman, Mauritius	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	1645-1700 1295 (O): Dual-axis aligned thermophilic artificial water channels formed by water-induced self-assembly Chien Lung Wang, Taiwan, China	1715-1800 Professional Development 2: Maintaining Digital Branding Bren Mark Felisilda, Philippines Lovish Raheja, India	1650-1705 2289 (O): Augmented docking pipelines: Leveraging machine learning in template-based NNRTI screening models Swagata Gupta, India	1630-1650 2596 (I): Building a responsible and inclusive future in chemistry Javier Garcia Martinez, Spain	1645-1700 2170 (O): Solar and laser photoactivated materials for high performance energy storage devices Weiping Wu, China
		1705-1720 1080 (O): A single bioorthogonal reaction for multiplex cell surface protein labelling Yu Hsuan Tsai, China	1700-1715 2173 (O): Unexplored facets of layered materials: New looks to old faces Luis De Jesus Baez, United States	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		1705-1720 2128 (O): Pyridine derivatives targeting acetylcholinesterase inhibition in Alzheimer's disease Iti Patel, India	1650-1710 2311 (I): Sustainable and inclusive chemistry labs for a sustainable future Ale Palermo, United Kingdom	1700-1715 2150 (O): Perovskite-based materials for photoelectrochemical green ammonia Nicola Sangiorgi, Italy
1630-1800		1720-1735 2427 (O): Synthesis and anticancer evaluation of novel N ² , N ³ -Benzylated-β-carbolium bromate derivatives Mazlin Mohideen, Malaysia	1715-1730 1355 (O): Photocatalytic application of monodisperse cluster-based multi-level structural materials Wenxiong Shi, China	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		1720-1735 2127 (O): Malic enzyme inhibition of pyrimidine derivatives for pancreatic cancer treatment Shubham Ashokkumar Mehta, India	1710-1730 2233 (I): Ethics and academic integrity in research and teaching Uday Maitra, India	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
		1735-1750 1657 (O): Design and synthesis of indole-based antibacterial compounds Chee Wei Ang, Malaysia	1730-1745 1831 (O): High-performance nanozymes: Rational design and biomedical applications Hui Wei, China	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		1735-1750 2124 (O): Anticancer activity and cell death mechanism of heteroleptic bimetallic ruthenium(II,III) complexes against human breast cancer subtypes Siyabonga Ngubane, South Africa	1730-1750 2298 (I): Chemistry for good: Bridging IUPAC principles and local needs in ASEAN Fun Man Fung, Ireland	1730-1745 1944 (O): Revolutionizing dry reforming of methane with nickel-bimetallic catalysts on dolomite support Mohd Razali Shamsuddin, Malaysia
			1745-1800 1254 (O): Nanocatalysts as artificial enzymes their applications in diagnostic systems Philani Mashazi, South Africa			1750-1805 1773 (O): Harnessing sustainable resources for research and innovation Zainab Ngaini, Malaysia	1730-1750 2298 (I): Chemistry for good: Bridging IUPAC principles and local needs in ASEAN Fun Man Fung, Ireland	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

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	Plenary Session at CH1&2	Plenary Session at CH1&2	Plenary Session at CH1&2	Plenary Session at CH1&2	Plenary Session at CH1&2	Plenary Session at CH1&2
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	Plenary Session at CH1&2	Plenary Session at CH1&2	Plenary Session at CH1&2	Plenary Session at CH1&2	Plenary Session at CH1&2	Plenary Session at CH1&2
1240-1400	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
VENUE	CH1&2	CH3	MR302	MR303	MR304	MR305	MR306

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

- a. 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”
- b. 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”.

18 Jul, Fri	CH1&2	CH3	MR302	MR303	MR304	MR305	MR306
	<p>18CS2-CH1&2 Polymer & Materials</p> <p>Chairperson: Eng Aik Hwee, Malaysia</p> <p>1400-1415 965 (O): Molecularly imprinted polymers in advanced environmental sensing using FAPA-MS Aleksandra Lusina, Poland</p> <p>1415-1430 1471 (O): Fast lossy sridhara-based compression and eigensolving of circumcoronene Hamiltonians for quantum sensing Dennis Lima, Qatar</p> <p>1430-1445 2336 (O): Ag-functionalized h-BN nano-hybrid: Solvothermal synthesis, multifunctional characterizations and anti-microbial activity assessment Mannan Ma, Bangladesh</p> <p>1445-1500 2463 (O): Anti-freezing and anti-drying conductive double-network hydrogel with high elasticity Nur Sara Batrishia Binti Rosli, Malaysia</p> <p>1500-1515 2405 (O): Controlled growth of polyaniline on epoxy functional cotton fabric and investigation of electrochemical properties Nergiz Cengiz, Turkiye</p> <p>1515-1530 2167 (O): High-throughput approaches to sustainable macromolecular engineering Melody Morris, United States</p> <p>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</p> <p>1545-1600 1591 (O): Ultrafast charge transfer cascade in a mixed-dimensionality heterostructure Alexis Myers, United States</p>	<p>18CS2-CH3 Education & Public Understanding</p> <p>Chairperson: Felix Ho, Sweden</p> <p>1400-1430 2490 (K): Structuring student learning experiences and developing skills: Aligning outcomes, activities, and assessment Renee Cole, United States</p> <p>1430-1500 2697(K) Problem solving at the interface of chemistry and mathematics – Cognitive and epistemic challenges Felix Ho, Sweden</p> <p>1500-1515 1706 (O): Effects of attention regularity in chemistry achievement, learning interesting, and attitude among high schools in China Xiaoqin Lai, China</p> <p>1515-1530 2065 (O): Rethinking chemistry triplet in the era of generative artificial intelligence Gyeonggeon Lee, Singapore</p> <p>1530-1545 2117 (O): Machine learning for automated scoring and textbook analysis in chemistry education research Mei Hung Chiu, Taiwan, China</p> <p>1545-1600 2372 (O): Integrating design thinking process, sustainability, and a life simulation game in designing a chemistry laboratory room Ralph Lauren Alomia, Philippines</p> <p>1600-1615 1965 (O): Science communication in chemistry: Transitioning with generative AI Mohd Bakri Bakar, Malaysia</p>	<p>18CS2-MR302 Analytical & Forensic Environmental</p> <p>Chairperson: Li Hui Ling, Malaysia</p> <p>1400-1430 2678 (K): Advances in reference material development for food safety and nutrition analysis in China Hongmei Li, China</p> <p>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</p> <p>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</p> <p>1500-1515 1983 (O): Organic molecular probes for imaging and therapy Yanti Tang, China</p> <p>S15 Symposium - Microplastics and Nanoplastics</p> <p>Chairperson: Weiping Wu, China Hemda Garelick, United Kingdom</p> <p>1530-1550 1929 (I): Plastics and microplastics in the marine environment Fani Sakellariadou, Greece</p> <p>1550-1610 2148 (I): Micro- and nanoplastics in environmental samples – Requirements for reliable quantification Roland Kallenborn, Norway</p>	<p>18CS2-MR303 SDG6: Clean Water & Sanitation</p> <p>Chairperson: Jamilah Karim, Malaysia</p> <p>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.</p> <p>1415-1430 1391 (O): Electro-driven cycling Fenton catalysis through the electro-responsive metal-organic frameworks for water purification Chao Yang, China</p> <p>1430-1445 1538 (O): Assessment of various photothermal materials for interfacial solar vaporization Memon Najma, Pakistan</p> <p>1445-1500 1327 (O): Effect of naturally occurring doping acid towards polyaniline properties and contaminant removal Michelle Li Yen Lee, Malaysia</p> <p>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</p> <p>1515-1530 2773 (O): Polyhydroxyalkanoates-biochar: Optimizing composite for enhanced biofilm attachment and development Si Ling Ng, Malaysia</p> <p>1530-1545 2473 (O): Water quality impact from durian farms to water resources Noor Azme Bin Omar, Malaysia</p>	<p>18CS2-MR304 Environmental</p> <p>S10 Symposium - Nuclear Magnetic Resonance Spectroscopy for Environment and Sustainability</p> <p>Chairperson: Silvia Borsacchi, Italy Elisa Carignani, Italy</p> <p>1400-1430 2458 (K): Solid-state NMR spectroscopy how mistrust in its reliability revealed new insights in soil biochemical processes Heike Knicker, Spain</p> <p>1430-1445 1361 (I): A transportable MRI sensor to monitor the water status of plants in situ Guilhem Pages, France</p> <p>1445-1500 1281 (I): NMR without Fourier Transform: A new era for environmental analysis by NMR Jeremy Gauthier, Canada</p> <p>1500-1515 1651 (I): Unveiling biochar-urea interactions in slow-release nitrogen fertilizers: A multinuclear solid state NMR study Silvia Pizzanelli, Italy</p> <p>1515-1530 1975 (I): Catching pollutants with Selenadiazole functionalised porphyrin nanotubes Marc Antoine Sani, Australia</p> <p>1530-1545 1792 (I): Next-generation materials for gas separation and carbon capture: Insights from solid state NMR spectroscopy Francesca Martini, Italy</p> <p>1545-1600 1637 (I): Illite mineral physicochemical transformation upon NH₃ gas treatment Silvina Di Pietro, United States</p>	<p>18CS2-MR305 Environmental</p> <p>Chairperson: Tai Xin Hong, Malaysia</p> <p>1400-1415 1910 (O): Corrosion inhibition screening of nitrobenzaldehyde Meldrum's acid using response surface method and machine learning Azhan Arif Mansor, Malaysia</p> <p>1415-1430 1935 (O): Controllable introduction of edged nitrogen sites in CVD-derived carbon materials for enhanced Fenton-like reactions Ying Chen, China</p> <p>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</p> <p>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.</p> <p>1500-1515 1115 (O): Microplastics as an emerging environmental pollutant in agricultural soils: Current understanding from Malaysia Sarva Mangala Praveena, Malaysia</p> <p>1515-1530 1257 (O): Exploring the potential of freshwater algae for active compound extraction and environmental monitoring Zuzanna Piotrowicz, Poland</p> <p>1530-1545 2165(O): Carbon dioxide catalytic conversion into valuable products: A sustainable approach Luis Branco, Portugal</p>	<p>18CS2-MR306 SDG3: Good Health & Well Being</p> <p>Chairperson: Priyani Paranagama, Sri Lanka</p> <p>1400-1415 2428 (O): Deep complex processing of Siberian plant waste as a way to achieve the sustainable development goals Elena Avdeenko, Russian Federation</p> <p>1415-1430 2612 (O): Health and nutritional benefits of the coconut for food security Fabian Dayrit, Philippines</p> <p>1430-1445 1830 (O): Phenoxymethylketone warheads create potent dual-mode peptidomimetic inhibitors against SARS-CoV-2 Floris Rutjes, Netherlands</p> <p>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</p> <p>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</p> <p>1515-1530 2284 (O): Mixonat – driven natural product research: Unlocking bioactive treasures Mohamad Nurul Azmi Mohamad Taib, Malaysia</p> <p>1530-1545 1936 (O): Biological efficacy of tetrahydrocurcumin analogs: Implications for antiaging skincare Ritmaleni Ritmalemi, Indonesia</p> <p>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</p>
1600-1630	PM TEA BREAK	PM TEA BREAK	PM TEA BREAK	PM TEA BREAK	PM TEA BREAK	PM TEA BREAK	PM TEA BREAK

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

- c. 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”
- d. 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”.

18 Jul, Fri	CH1&2	CH3	MR304	MR305
	18CS3-CH1&2 Polymer & Materials	18CS3-CH3 SDG2: Zero Hunger	18CS3-MR304 Polymer & Materials	18CS3-MR305 Environmental
	Chairperson: Lim Teck Hock, Malaysia	Pesticides In Agriculture and Chromatographic Analyses of Food/ Agriculture Produce	Chairperson: Khairul Anuar Mat Amin, Malaysia	Chairperson: Mohamad Azuwa Mohamed, Malaysia
	1630-1645 2526 (O): Cu-Gr-TiO ₂ ternary nanocomposite for the application of anticorrosion coating: Synthesis, characterization and anticorrosion properties Mui Yen Ho, Malaysia	Chairperson: Lee Yook Heng, Malaysia	1630-1645 2126 (O): Synthesis and design of anionic polymers and microgels for biomedical adhesives Elena Kozhunova, Russian Federation	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 2016 (O): Nanotubular structures displaying high hydrophobicity and strong water adhesion Abdoulaye Drame, Senegal	1630-1650 1719 (I): The fate and potential impacts of chiral pesticides in complex agricultural soil environments Hui Liu, China	1645-1700 1794 (O): Motility-induced organization of polymers from active monomer units Alexander Chertovich, Russian Federation	1645-1700 1768 (O): Barium-organic framework for capture and chemical fixation of CO ₂ via cyclic carbonates and oxazolidinones Aasif Hetal, Saudi Arabia
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	1650-1705 2368 (O): Synthesis of environmentally safe plant resistance inducers as an alternative to pesticides Rafal Kukawka, Poland	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	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
	1715-1730 2137 (O): Enhancing dielectric properties of poly (vinylidene fluoride) nanocomposite films incorporated with BaTiO ₃ and ZrO ₂ 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	1715-1730 973 (I): Towards circular high-performance composites via chemistry Baris Kumru, Turkiye	
		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	1730-1745 1106 (O): Printable 2D nanoparticle superlattices via directed confined self-assembly of polymer-tethered nanoparticles Renhua Deng, China	
		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	1745-1800 2134 (O): Frequency-dependent electrical conductivity of polyvinylidene fluoride nanocomposites reinforced with CuO and TiO ₂ Labi Agrawal, India	
		1750-1805 2411 (O): Unlocking the future of food: Elemental insights into alternative proteins with organic elemental analysis Hun Teong Cheah, Singapore	1800-1815 2778 (O): Functional biomaterials for wound healing: Innovations in gellan gum-based hydrogel systems Khairul Anuar Mat Amin, Malaysia	

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

- e. 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”
- f. 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”.

18 JULY 2025, FRIDAY – LEVEL 4

All the meeting rooms are in Kuala Lumpur Convention Centre: **MR** = Meeting Room (MR3xx located at Level 3; MR4xx located at Level 4) | **CH** = Conference Hall, Level 3 | **Suite** = located at Level 3 | **TS** = Thematic Session

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

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

- g. 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”
- h. 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”.

18 Jul, Fri	MR401	MR402	MR403	MR404	MR405
	<p>18CS2-MR401 Green Chemistry SDG7: Affordable & Clean Energy</p> <p>Chairperson: Lim Teck Hock, Malaysia</p> <p>1400-1415 1843 (O): Electrochemistry as a powerful tool for advancing the fields of C-H functionalization and hydrogen production Oscar Verho, Sweden</p> <p>1415-1430 1585 (O): Screening single transition metal atoms anchored on carbon nanotubes for electrochemical CO₂ reduction Wuyang Lin, United Kingdom</p> <p>1430-1445 1195 (O): Cationic polyelectrolyte enables CO₂ electroreduction in metal cation-free acidic media Jun Gu, China</p> <p>1445-1500 1373 (O): Application of recyclable carbon nitride photocatalyst in visible-light mediated synthesis of β-keto sulfones Binoyargha Dam, India</p> <p>1500-1515 1476 (O): Formulation, characterization and application of green, efficient and lipase-biocompatible bicontinuous microemulsions Xirong Huang, China</p> <p>SDG7: Affordable & Clean Energy</p> <p>1515-1530 1421 (O): Targeting barriers in alkaline water electrolysis: Catalysts and binder innovations Anzel Falch, South Africa</p> <p>1530-1545 1246 (O): Dual-isolation effect of bismuth in non-noble BiNi alloys for enhanced performance in H₂O₂ electrosynthesis Xiaomei Liu, China</p> <p>1545-1600 1395 (O): Enhanced hydrogen production using Co, Cu, and Ni-doped TiO₂ photoanode in photoelectrochemical cells Nur Ain Atiqah Mohd Amin, Malaysia</p> <p>1600-1615 2644 (O): Serpentinization-driven white hydrogen production: A nature-inspired approach using synthetic olivine Safyan Khan, Saudi Arabia</p>	<p>18CS2-MR402 SDG5: Gender Equality</p> <p>Chairperson: New Siu Yee, Malaysia</p> <p>1400-1430 2554 (K): Supporting and increasing the visibility of women in science Frances Separovic, Australia</p> <p>1430-1450 2565 (I): Advancing gender equality in Taiwanese chemistry community Chaoping Hsu, Taiwan, China</p> <p>1450-1510 2256 (I): How to make chemistry inclusive for Blind or Low Vision (BLV) students: Examples from different chemistry topics Mustafa Sozibilir, Turkiye</p> <p>1510-1530 2309 (I): Expanding gender equity: Results from a cross-national, cross-sector study of STEM careers Tracey Peter, Canada</p> <p>1530-1550 2659(I): Chemistry for gender equality in Africa for achieving sustainable development goals Jane Catherine Ngila, South Africa</p> <p>1550-1610 2525 (I): Not just at the table: Leading science by redefining who thrives Josephine Tsang, Canada</p>	<p>18CS2-MR403 Inorganic & Bioinorganic</p> <p>Chairperson: Low May Lee, Malaysia</p> <p>1400-1415 2200 (O): Synthesis, reactivity, and anticancer activity of new N-heterocyclic thiones and selones Daniel Rabinovich, United States</p> <p>1415-1430 1881 (O): Ruthenium and rhenium-based photosensitizers: Advancing photodynamic therapy for anticancer and antibacterial applications May Lee Low, Malaysia</p> <p>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</p> <p>1445-1500 2188 (O): Metal-organic framework isomerism, SF₆ sorption and fluorescence detection of organophosphates and insecticides Lars Ohrstrom, Sweden</p> <p>1500-1515 2374 (O): Regulating short-range chemical ordering and local polyhedral configurations in Ni-Mo-P-B metallic glass Zhongzheng Yao, China</p> <p>1515-1530 1920 (O): Effect of sustainably derived 45S5 bioglass on the properties of biowaste-derived hydroxyapatite composites Chui Kim Ng, Malaysia</p> <p>1530-1545 1497 (O): Bacterial metalloproteinases as virulence factors: Exploring peptide-based inhibition Martyna Zawada, Poland</p> <p>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</p>	<p>18CS2-MR404 Organic & Biomolecular</p> <p>Chairperson: Fatimah Salim, Malaysia</p> <p>1400-1420 1165 (I): P-chirogenic organophosphorus compounds: Axis to center chirality transfer reaction Toshiaki Murai, Japan</p> <p>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</p> <p>1435-1450 1030 (O): Intramolecular vs intermolecular zwitterionic acylpyrazolone ligands and their spontaneous coordination with caesium carbonate Vanya Kurteva, Bulgaria</p> <p>1450-1505 2192 (O): Biocatalytic protein modification for the development of next-generation therapeutic agents Mark Distefano, United States</p> <p>1505-1520 2009 (O): Development of carbohydrate-based drugs and prodrugs to overcome antimicrobial resistance Catarina Maria, Portugal</p> <p>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</p> <p>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</p>	<p>18CS2-MR405 TS11 Thematic Session - IYCN/ MYCN Young Chemist Programme</p> <p>Chairperson: Mohd Azlan Kassim, Malaysia Bren Mark Felisilda, Philippines</p> <p>1400-1600 Workshop 1: Empowering the Next Generation of Chemistry Leaders Lydia Rhyman, Mauritius</p>
1400-1600					
1600-1630	PM TEA BREAK	PM TEA BREAK	PM TEA BREAK	PM TEA BREAK	PM TEA BREAK

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

- i. 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”
- j. 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”.

18 Jul, Fri	MR401	MR402	MR403	MR404	MR405
	18CS3-MR401 SDG7: Affordable & Clean Energy	18CS3-MR402 SDG5: Gender Equality	18CS3-MR403 Inorganic & Bioinorganic	18CS3-MR404 Organic & Biomolecular	18CS3-MR405 TS11 Thematic Session - IYCN/ MYCN Young Chemist Programme
1630-1800	Chairperson: Khairulazhar Jumbri, Malaysia	Chairperson: Mei Hung Chiu, Taiwan, China	Chairperson: Nurul Huda Abd Karim, Malaysia	Chairperson: Noor Alicezah Mohd Kasim, Malaysia	Chairperson: Mohamad Shazeli Che Zain, Malaysia Oliver Thomas, United Kingdom
	1630-1645 1377 (O): Enhanced electrochemical performance of aqueous zinc-ion batteries with porous basil-derived carbon and nanostructured MnO ₂ composite cathodes Yuda Prima Hardianto, Saudi Arabia	1630-1650 2749 (I): Advancing gender equality in chemistry: Challenges, opportunities, and future directions Ghada Bassioni, Egypt, Arab Rep.	1630-1645 1743 (O): Di-(2-picoyl)amine derivatized sulphonamide ligands and platinum complexes for prospective bioimaging applications Kithmini Yasarathna, Sri Lanka	1630-1645 1793 (O): Liquid crystalline and fire retardant evaluation of new cyclotriphosphazene derivatives with ester-Schiff base linkages Zuhair Jamain, Malaysia	1630-1800 Workshop 2: Science Communication Shahrul Nizam Ahmad, Malaysia
	1645-1700 1285 (O): Eco-innovative LDPE photodegradation via BiOCl-ZrO ₂ nanocomposites Bharat Kumar Allam, India	1650-1710 1835 (I): Shaping the future of chemistry: IUPAC's guiding principles for responsible chemistry Javier Garcia Martinez, Spain	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	1645-1700 1536 (O): Conversion of indanone-derived geminal azidofluorides to isoquinolines or benzoyl fluorides Fanhong Wu, China	1800-2200 Dinner with Young Chemists (Optional) – Pre Registration Required
	1700-1715 1648 (O): Optimizing TiO ₂ photocatalyst with Co and Ni doping for improved hydrogen production Hayyiratul Fatimah Mohd Zaid, Malaysia	1710-1730 2476 (I): From periodic to equal table: Harnessing nanocarbon technology for a cooler, carbon-neutral, and inclusive world Rozzeta Dolah, Malaysia	1700-1715 2481 (O): Synthesis, characterization, and anticancer activity of copper(II) chitosan functionalized imidazole-2-thiosemicarbazones Hari Sharan Adhikari, Nepal	1700-1715 2462 (O): Synthesis, crystal structure and molecular docking of coumarin-functionalised N-heterocyclic carbene ligands Puvana Selvarajoo, 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					

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19 JULY 2025, SATURDAY

All the meeting rooms are in Kuala Lumpur Convention Centre: **MR** = Meeting Room (MR3xx located at Level 3; MR4xx located at Level 4) | **CH** = Conference Hall, Level 3 | **Suite** = locate at Level 3 | **TS** = Thematic Session

VENUE	CH1&2
0900-1000	<p>19CS1-CH1&2 IKM GOLD MEDAL AWARD LECTURE Mesoporous Materials Driving Innovations in Clean Energy and Environmental Sustainability Juan Joon Ching Universiti Malaya, Malaysia</p> <p>Chairperson: Soon Ting Kueh, Malaysia</p>
1000-1030	AM TEA BREAK
1030-1110	<p>PLENARY 11 Cinematic Chemistry: The Journey of Electron Microscopy from Organic Synthesis to Molecular Statistics Prof Eiichi Nakamura University of Tokyo, Japan</p> <p>Chairperson: Han Buxing, China</p>
1110-1200	<p>PLENARY 12 Single-Atom Catalysis Prof Zhang Tao Chinese Academy of Sciences, China</p> <p>Chairperson: Ho Chee Cheong, Malaysia</p>
1200-1230	CLOSING CEREMONY
1230-1400	FAREWELL LUNCH