



# Program Book



Welcome Reception (all are invited)

📅 Monday, 23<sup>rd</sup> June 2025

🕒 17.00-19.30 hr.

📍 Venue: Mayfair Grand Ballroom, 11<sup>th</sup> floor  
The Berkeley Hotel

Dress Code: Smart Casual

Congress Dinner (ticket holders only)

📅 Thursday, 26<sup>th</sup> June 2025

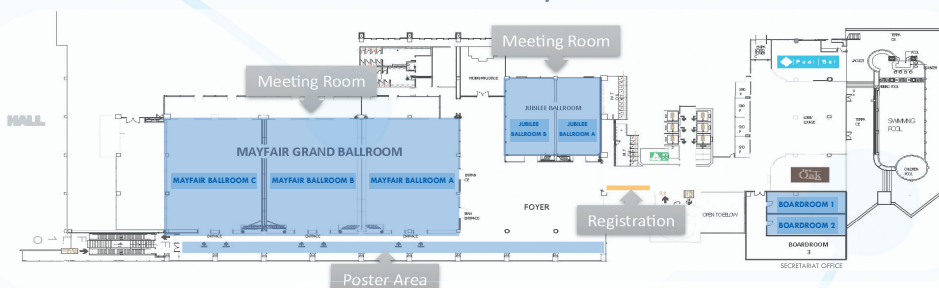
🕒 17:00 hr. Bus transfer to port  
18:00–21:00 hr.

📍 Venue: Chaophraya River Cruise

# FLOOR PLAN

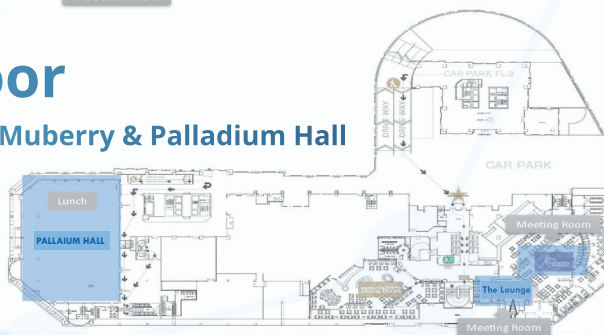
## 11<sup>th</sup> Floor

Mayfair Ballroom A, B, C  
Jubilee Ballroom A, B,  
Boardroom 1,3



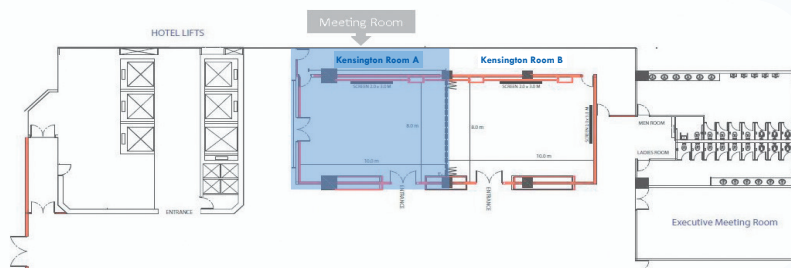
## 10<sup>th</sup> Floor

The Lounge & Muberry & Palladium Hall



## 5<sup>th</sup> Floor

Kensington Ballroom A



# Plenary Speakers



## PL-1: Prof. Dr. Ehud Keinan

International Union of Pure  
& Applied Chemistry

**Topic:** *Humanity faces a bright future, and so Chemistry*

Chair: Supawan Tantayanont, Thailand

Monday, 23<sup>rd</sup> June 2025

10.50-11.40

Mayfair Ballroom, 11<sup>th</sup> floor



## PL-3: Prof. Dr. Aaron Ciechanover

Nobel Prize in Chemistry 2004, Israel

**Topic:** *Ubiquitin Proteolytic System - (Cancelled)  
From Basic Mechanisms thru  
Human Diseases and on to Drug Development*

Chair: Tirayut Vilaivan, Thailand

Tuesday, 24<sup>th</sup> June 2025

09.00-09.50

Mayfair Ballroom, 11<sup>th</sup> floor



## PL-2: Prof. Dr. Zhiyong Tang

National Center for Nanoscience and  
Technology, China

**Topic:** *Construction and Application of  
Self-assembled Nanostructures*

Chair: Chularat Wattanakit, Thailand

Monday, 23<sup>rd</sup> June 2025

11.40-12.30

Mayfair Ballroom, 11<sup>th</sup> floor



## PL-4: Prof. Dr. Xiaoguang Lei

Peking University, Beijing, China

**Topic:** *Translational Chemical Biology*

Chair: Chanat Aonbangkhen, Thailand

Tuesday, 24<sup>th</sup> June 2025

16.00-16.50

Mayfair Ballroom, 11<sup>th</sup> floor



## PL-5: Prof. Dr. A. Stephen K. Hashmi

Ruprecht Karls Universität  
Heidelberg, Germany

**Topic:** *Sustainability and  
Homogeneous Catalysis of Organic  
Reactions: Aspects of Nickel,  
Copper, Silver and Gold*

Chair: Supavadee Kiatisevi, Thailand

Wednesday, 25<sup>th</sup> June 2025

09.00-09.50

Mayfair Ballroom, 11<sup>th</sup> floor



## PL-6: Prof. Dr. Pimchai Chaiyen

VISTEC, Thailand

**Topic:** *Enzyme Catalysis for  
Green Synthesis*

Chair: Purim Jarujamrus, Thailand

Wednesday, 25<sup>th</sup> June 2025

16.00-16.50

Mayfair Ballroom, 11<sup>th</sup> floor



## PL-7: Prof. Dr. Krasimir Vasilev

Flinders University, Australia

**Topic:** *Nanoengineered Materials  
and Coatings for Medicine  
and Beyond*

Chair: Ekasith Somsook, Thailand

Thursday, 26<sup>th</sup> June 2025

09.00-09.50

Mayfair Ballroom, 11<sup>th</sup> floor



## PL-8: Prof. Dr.

Supawan Tantayanont

Chulalongkorn University

**Topic:** *Empowering Teachers,  
Inspiring Youth: Driving  
Sustainability through Innovative  
Small-Scale Chemistry  
in South Asia and ASEAN*

Chair: Tirayut Vilaivan, Thailand

Tuesday, 24<sup>th</sup> June 2025

09.00-09.50

Mayfair Ballroom, 11<sup>th</sup> floor



# FACS Awards 2025 and FACS Fellow 2025



FACS Foundation Lectureship Award 2025  
**Prof. Dr. Zhiyong Tang, China**

**Plenary Lecture: Construction and Application of Self-assembled Nanostructures**

Monday, 23<sup>rd</sup> June 2025  
11.40-12.30



FACS Award for Distinguished Contribution to Economic Advancement 2025  
**Dr. Han-Oh Park, Korea**

Session: Food, Agriculture, and Cosmetics

**Topic: From DNA to Health & Beauty Bioneer 33 yrs History of R&D and Business**

Monday, 23<sup>rd</sup> June 2025  
13.30-13.50



FACS Award for Distinguished Young Chemist 2025  
**Asst. Prof. Dr. Itthipon Jeerapan, Thailand**

Session: Analytical Chemistry

**Topic: The Convergence of Electrochemistry and Advanced Materials: Paving the Way for the Next-Generation Analytical Chemistry and Miniaturized Sustainable Devices**

Monday, 23<sup>rd</sup> June 2025  
14.10-14.30



FACS Distinguished Contribution to Chemical Education Award 2025  
**Prof. Dr. Mustafa Sözbilir, Türkiye**

Session: Future in Chemical Education

**Topic: Development of Chemistry Education Research (CER) as a Field of Inquiry and Current Status of CER in the World**

Wednesday, 25<sup>th</sup> June 2025  
14.50-15.10



FACS Citations for Contributions to Chemistry in the Asia-Pacific Region 2025  
**Prof. Dr. Ling-Kang Liu, Taiwan**

Session: Inorganic Chemistry

**Topic: Azo-coupling Chemistry in a Flow**

Thursday, 26<sup>th</sup> June 2025  
13.50-14.10



FACS Citations for Contributions to Chemistry in the Asia-Pacific Region 2025  
**Prof. Dr. Mary Garson, Australia**

Session: Young Career Development under FACS-ACS Collaboration

**Topic: Adding Value to Asia Chemistry: Reflections on Forty Years of Research, Networking and Mentorship**

Monday, 23<sup>rd</sup> June 2025  
13.30-14.00



FACS Fellow 2025  
**Prof. Dr. Reuben Jih-Ru Hwu, Taiwan**

Session: Green Chemistry; Paving the Way to a Sustainable Future

**Topic: Sustainability Based on Green Chemistry of Novel Domino Reactions**

Thursday, 26<sup>th</sup> June 2025  
10.30-10.25



# Ryoji Noyori ACES Awards Symposium



**Mikiko Sodeoka**  
RIKEN, Japan

**Topic:** *Transition Metal Enolate Chemistry: past, present, and future*

📅 Tuesday, 24<sup>th</sup> June 2025

🕒 10.30-15.30



**Varinder Kumar Aggarwal**  
University of Bristol, UK

**Topic:** *Synthesis with Boron at the Helm*

📅 Tuesday, 24<sup>th</sup> June 2025

🕒 10.30-15.30



**Shu-Li You**  
Shanghai Institute of Organic Chemistry (SIOC), China

**Topic:** *Developing New Synthetic Methodologies of Dearomatization Reactions*

📅 Tuesday, 24<sup>th</sup> June 2025

🕒 10.30-15.30



**Pauline Chiu**  
The University of Hong Kong, Hong Kong SAR

**Topic:** *Exo-selective Intramolecular (4+3) Cycloadditions of Epoxy Enolsilanes*

📅 Tuesday, 24<sup>th</sup> June 2025

🕒 10.30-15.30



**Rene M. Königs**  
University of Bayreuth, Germany

**Topic:** *Spin States Matter - Fundamentals, Applications and Translation to Drug Discovery*

📅 Tuesday, 24<sup>th</sup> June 2025

🕒 10.30-15.30



**Sarah Yunmi Lee**  
Yonsei University, Korea

**Topic:** *Stereodivergence in Catalytic Asymmetric Conjugate Additions*

📅 Tuesday, 24<sup>th</sup> June 2025

🕒 10.30-15.30



**Yen-Chun Lee**  
National Cheng Kung University, Taiwan

**Topic:** *Multifunctional Chemical Biology Tools: Advances in Synthetic Strategies for Small Molecules and Bioconjugates*

📅 Tuesday, 24<sup>th</sup> June 2025

🕒 10.30-15.30

# Program at a Glance

Time/Date	Sunday 22 June 2025
	The Lounge
09.30-16.00	The 22 <sup>nd</sup> FACS General Assembly
17.00-19.00	Dinner (Invitation Only)

Time/Date	Monday 23 June 2025							
	Mayfair Ballroom A	Mayfair Ballroom B	Mayfair Ballroom C	Jubilee Ballroom A	Jubilee Ballroom B	The Lounge	Mulberry	Kensington Ballroom A
	Registration (7.30-16.00)							
09.00-09.30	Protocol Talks							
09.30-10.20	Opening Ceremony							
10.20-10.50	BREAK							
10.50-11.40	PL-1							
11.40-12.30	PL-2							
12.30-13.30	LUNCH							
13.30-15.30	AC	MN	FA	PT	SA	SD	CST Meeting	S5
15.30-16.30	BREAK							
16.30-17.30	PP-01 (Poster Presentation)							
17.30-20.00	Welcome Reception (Mayfair Grand Ballroom)							

Time/Date	Tuesday 24 June 2025							
	Mayfair Ballroom A	Mayfair Ballroom B	Mayfair Ballroom C	Jubilee Ballroom A	Jubilee Ballroom B	The Lounge	Mulberry	Board room
	Registration (8.00-16.00)							
09.00-09.50	PL-3							
09.50-10.30	BREAK							
10.30-12.30	AC	MN	S9	PT	S2	SE	SC	FACS EXCO meeting
12.30-13.30	LUNCH							
13.30-15.30	AC	MN	S9	PT	S2	SE	SG	FACS EXCO meeting
15.30-16.00	BREAK							
16.00-16.50	PL-4							
16.50-18.00	PP-02 Poster Presentation (with refreshments)							

# Program at a Glance

Time/Date	Wednesday 25 June 2025							
	Mayfair Ballroom A	Mayfair Ballroom B	Mayfair Ballroom C	Jubilee Ballroom A	Jubilee Ballroom B	The Lounge	Mulberry	Board room
	Registration (8.00-16.00)							
09.00-09.50	PL-5							
09.50-10.30	BREAK							
10.30-12.30	PC	NB	OM	S3	S2	CE	S6	ACES board meeting
12.30-13.30	LUNCH							
13.30-15.30	PC	FE	OM	S3	S2	S1	S6	ACES board meeting
15.30-16.00	BREAK							
16.00-16.50	PL-6							
16.50-18.00	Congress Dinner (18.00-21.00) <i>Chaophraya River Cruise</i>							

Time/Date	Thursday 26 June 2025						
	Mayfair Ballroom A	Mayfair Ballroom B	Mayfair Ballroom C	Jubilee Ballroom A	Jubilee Ballroom B	The Lounge	Mulberry
	Registration (8.00-14.00)						
09.00-09.50	PL-7						
09.50-10.30	BREAK						
10.30-12.30	CE	IE	IC	S8	S4	S1	SS
12.30-13.30	LUNCH						
13.30-15.30	CE	US	IC	S8	SB	S1	OM
15.30-16.00	BREAK						
16.00-17.00	Closing Ceremony						



# Submission Code

Regular Session		Side-Event	
AC	Analytical Chemistry	SS	Science Projects for Students Showcase
CE	Chemistry for Energy and Environment	US	Future Chemistry Research Presentation for Undergraduate Students
FA	Food, Agriculture, and Cosmetics		
FE	Future in Chemical Education		
IE	Industrial and Engineering Chemistry		
IC	Inorganic Chemistry		
MN	Materials Science and Nanotechnology		
NB	Natural Products, Biological Chemistry and Chemical Biology		
OM	Organic Synthesis and Medicinal Chemistry		
PT	Physical and Theoretical Chemistry		
PC	Polymers and Bio-based Materials		

Special Session	
S1	Thailand-Japan Bilateral Symposium: Advancing Synchrotron Science through Experimental and Computational Chemistry Synergy
S2	Catalytic Systems for Contemporary Challenges
S3	Advanced Coordination Materials and Catalysis for Environment
S4	Understanding and Development to Address the PFAS Problems in Thailand for Sustainable Environment
S5	AI in Drug Discovery Research
S6	Advances in Nutraceutical Chemistry Shaping the Future of Disease Prevention in Asia
S8	Green Chemistry; Paving the Way to a Sustainable Future
S9	Ryoji Noyori ACES Awards Symposium
SA	Young Career Development under FACS-ACS Collaboration
SB	TU-Frontier Lab-JEOL joint session Contaminants of Emerging Concern: PFAS & Microplastics
SC	Sustainable chemistry Focusing on Clean energy Good Health and Well-Being (Thailand-Taiwan)
SD	IMS-CU Bilateral Symposium for Driving Forward Frontier Research
SE	Unlocking the Power of Nature: Cutting-Edge Applications of Natural Products, Biological Chemistry, and Chemical Biology
SG	Sustainable Chemistry for Agricultural Residue Valorization

# Information for Oral Presenters

## Presentation Code

For those presenting either poster or oral presentation you can obtain your presentation codes from your registered account on the ACC2025 website.

Presentation code are assigned for each presentation as	
PL-0	<i>for Plenary speaker presentation</i>
XX-K-000	<i>for Keynote speaker presentation</i>
XX-I-000	<i>for Invited speaker presentation</i>
XX-O-000	<i>for Oral speaker presentation</i>
XX-P-000	<i>for Poster speaker presentation</i>

Where XX is a session code and 000 is an identification number for each presentation.

### Presentation Time

The time for a keynote presentation is 30 minutes including Q&A.

The time for an invited presentation is 20 minutes including Q&A.

The time for general oral presentation is 15 minutes

The presentation time includes a 3-minute Q&A session. A bell will ring at 5 and 3 minutes before the end of your allocated time.

### Instructions for Oral Presentation

1. Check the program book for your session time and room.
2. You are strongly encouraged to use the laptop computer provided for the presentation.
3. Bring your presentation file on a USB drive to the room that you will present at least 30 min before your session starts. Our staff will help you to transfer the file.
4. Arrive at the room at least 10 minutes before the session starts to meet the chair and check your presentation file. If you plan to use your own laptop, please arrive earlier to test the connection.
5. Finish your presentation at least 3 minutes before your scheduled presentation time to allow for questions and discussion.
6. The names of session chair(s) and other details can be found in the "Program at a Glance."
7. If you have any questions, please visit the registration counter at your convenience.

### The room used for the presentation is equipped with:

1. A laptop computer with Windows 10 and Microsoft Office
2. An LCD projector and screen
3. Microphone/speaker

Due to a very tight schedule, we strongly recommend that you use the laptop computer provided for the presentation. Your files will be permanently erased after the session has finished. If you wish to use your personal laptop, please contact our staff in advance to verify the connection. The visualizer only accepts HDMI connections. Please bring an appropriate adapter if your computer doesn't have an HDMI port.

# Oral Presentation Program



Monday, 23<sup>rd</sup> June 2025



13.30-15.30



Mayfair Ballroom A, 11<sup>th</sup> floor

Time	Title
<b>REGULAR SESSION</b> <b>AC: Analytical Chemistry</b>	
<b>Chair:</b> Jaroon Jakmunee <b>Co-chair:</b> Itthipon Jeerapan	
13.30-13.50	<b>(AC-I-050)</b> Micromotors meet collective biosensing <i>Alberto Escarpa</i>
13.50-14.10	<b>(AC-I-049)</b> Hyperspectral near-infrared measurements for sensitivity enhancement in analyzing thin sheet samples and identification of pearls with different cultured origins <i>Hoeil Chung</i>
14.10-14.30	<b>(AC-I-053)</b> The convergence of electrochemistry and advanced materials: Paving the way for the next-generation analytical chemistry and miniaturized sustainable devices <i>Itthipon Jeerapan</i>
14.30-14.45	<b>(AC-O-007)</b> Coupling gas chromatography–mass spectrometry with spray-assisted liquid phase microextraction for determining flibanserin in synthetic urine samples <i>Nursu Aylin Kasa</i>
14.45-15.00	<b>(AC-O-008)</b> Combination of digital image-based colorimetric system and UV-Vis spectrophotometry for the determination of iron (III) by curcumin nanoparticle based colorimetric sensor <i>Nazime Ebrar Karlıdağ</i>
15.00-15.15	<b>(AC-O-009)</b> MnO <sub>2</sub> cube-like nanoparticles based dispersive solid phase extraction method for the preconcentration of cobalt ions from basil tea samples prior to flame atomic absorption spectrometry <i>Bedrihan Kartoğlu</i>
15.15-15.30	<b>(AC-O-010)</b> Accurate measurement of selected steroid hormones using a combination of the dispersive solid phase extraction method and the quadrupole isotope dilution strategy <i>Neşe Ular Çağatay</i>
15.30-15.45	<b>(AC-O-016)</b> Detection of tetracycline with a CRISPR/Cas12a aptasensor using a highly efficient fluorescent polystyrene microsphere reporter system <i>Jing Yee Bong</i>



Tuesday, 24<sup>th</sup> June 2025



10.30-12.30



Mayfair Ballroom A, 11<sup>th</sup> floor

Time	Title
<b>REGULAR SESSION</b> <b>AC: Analytical Chemistry</b>	
<b>Chair:</b> Jaroon Jakmunee <b>Co-chair:</b> Anchalee Samphao	
10.30-10.50	<b>(AC-I-046)</b> γ-Hydroxybutyric acid detection using a colorimetric sensor and graphene field-effect transistor (GFET) sensor <i>Oh Seok Kwon</i>
10.50-11.10	<b>(AC-I-047)</b> Non-enzymatic detection of glucose, and glucose-ketone ratio (GKR) via formation of silver nanoparticles and iron-acetate complexes on paper-based analytical devices <i>Akhmad Sabarudin</i>
11.10-11.30	<b>(AC-I-048)</b> New strategies for electrochemical detection of cancer biomarkers <i>Kontad Ounnunka</i>
11.30-11.45	<b>(AC-O-013)</b> Synthesis of SiO <sub>2</sub> @TiO <sub>2</sub> @rGO@Fe <sub>3</sub> O <sub>4</sub> nanocomposites using silica nanoparticles prepared from rice husk and development of a magnetic dispersive solid phase extraction method for the determination of cadmium ions <i>Hilal Akbiyik</i>



11.45-12.00	(AC-O-017) Cadmium removal from aqueous solutions with magnetite based covalent organic frameworks: adsorption kinetics and isotherm studies <i>Selim Gürsoy</i>
12.00-12.15	(AC-O-019) Determination of inorganic pollutants at trace levels in Antarctic region with accurate and sensitive analytical methods <i>Buse Tuğba Zaman</i>
12.15-12.30	(AC-O-022) Determination of zinc, cadmium, lead and copper in the acetic acid extract of plastic utensils for food by square wave anodic stripping voltammetric method <i>Chanakarn Chucheechuenkamol</i>



**Tuesday, 24<sup>th</sup> June 2025**



**13.30-15.30**



**Mayfair Ballroom A, 11<sup>th</sup> floor**

Time	Title
<b>REGULAR SESSION</b> <b>AC: Analytical Chemistry</b>	
<b>Chair:</b> Itthipon Jeerapan	<b>Co-chair:</b> Akhmad Sabarudin
13.30-13.50	(AC-I-052) Power of analytical chemistry to solve the environmental and health problems <i>Sezgin Bakýrdere</i>
13.50-14.10	(AC-I-044) Electrochemical paper-based analytical devices for the determination of nitrite, nitrate and nitrosamine <i>Anchalee Samphao</i>
14.10-14.25	(AC-I-051) Electrochemical biosensors for rapid detection in HCV quantification and cancer status determination <i>Benchaporn Lertanantawong</i>
14.25-14.40	(AC-O-025) Hydrothermal synthesis of bismuth ferrite nanoparticles for the determination of copper in grape leaf samples <i>Tuğçe Unutkan Gösterişli</i>
14.40-14.55	(AC-O-027) Trace determination of cadmium in cinnamon tea samples using waste toner particles based dispersive solid phase extraction <i>Hakan Serbest</i>
14.55-15.10	(AC-O-042) HPTLC-derived database for phenolic compound identification in honey: Development and application <i>Ivan Lozada Lawag</i>
15.10-15.25	(AC-O-041) Development of biopolymer-based artificial antibodies for analytical applications <i>Aziz Amine</i>



**Wednesday, 25<sup>th</sup> June 2025**



**10.30-12.30**



**The Lounge, 10<sup>th</sup> floor**

Time	Title
<b>REGULAR SESSION</b> <b>CE: Chemistry for Energy and Environment</b>	
<b>Chair:</b> Metta Chareonpanich	<b>Co-chair:</b> Waleeporn Donphai
10.30-10.50	(CE-I-019) Activation and deactivation of Fe-Al composite materials for production of turquoise hydrogen and nanostructure carbon <i>Shih-Yuan Chen</i>
10.50-11.10	(CE-I-021) Alkaline earth oxide-modified palladium catalysts for the highly selective partial hydrogenation of BDF fuel <i>Apanee Luengnaruevitchai</i>
11.10-11.25	(CE-O-015) Oxidative valorization of spruce bark to yield vanillin <i>Suthawan Muangmeesri</i>

- 11.25-11.40 (CE-O-017) Selective recovery of Mo, V, and Ni from waste inorganic resources, using ionic liquids and deep eutectic solvents  
*Simon Jung*
- 11.40-11.55 (CE-O-013) Gallium-based metal-organic framework for the adsorption treatment of Per- and poly-fluoroalkyl substances  
*Devi Govindaraj*
- 11.55-12.10 (CE-O-031) Ecological risk assessment and pollution study of the lifeline river adjacent to the megacity Chattogram, Bangladesh  
*Muhammad Ali*



Thursday, 26<sup>th</sup> June 2025



10.30-12.30



Mayfair Ballroom A, 11<sup>th</sup> floor

Time	Title
<b>REGULAR SESSION</b> CE: Chemistry for Energy and Environment	
Chair: Metta Chareonpanich      Co-chair: Waleeporn Donphai	
10.30-10.50	(CE-I-007) Organometallic polymers and their applications in solar energy conversion <i>Miao Zhang</i>
10.50-11.10	(CE-I-020) Surface and interfacial dynamics in energy materials <i>Yan-Gu Lin</i>
11.10-11.25	(CE-O-012) Sustainable production of functional activated carbons derived from biomass: Assessment for energy storage and greenhouse gas (GHG) emission <i>Sopon Butcha</i>
11.25-11.40	(CE-O-024) The effect of the carbon-to-silica template mass ratio on the performance of mesoporous carbon derived from banana peel as a supercapacitor <i>Dinda Prastika Nabila Nahda</i>
11.40-11.55	(CE-O-033) ZnCl <sub>2</sub> -activated porous biochar from fast-growing flowering plant, Wolffia as lithium-ion batteries anode materials <i>Thammanoon Kapanya</i>
11.55-12.10	(CE-O-025) Optimization of ammonia fuel cells using two dimensional NiFe-MOF/NF as electrodes <i>Eunike Heryanto</i>



Thursday, 26<sup>th</sup> June 2025



13.30-15.30



Mayfair Ballroom A, 11<sup>th</sup> floor

Time	Title
<b>REGULAR SESSION</b> CE: Chemistry for Energy and Environment	
Chair: Metta Chareonpanich      Co-chair: Waleeporn Donphai	
13.30-13.50	(CE-I-005) Photoreforming of lignocellulose over single-atom Fe dispersed polymeric carbon nitride homojunctions <i>Can Xue</i>
13.50-14.05	(CE-O-010) Novel Bi-based nanocomposites for efficient photocatalytic CO <sub>2</sub> reduction and pollutant degradation <i>Dmitry Selishchev</i>
14.05-14.20	(CE-O-014) Development of Ni-based electrocatalysts by Fe doping and carbon nanotubes coating for urea oxidation reaction <i>Natthakrit Montri</i>
14.20-14.35	(CE-O-034) Oxygen harvesting waste derived carbon dots as photocatalysts for the oxidative synthesis of quinazolinones <i>Bidyutjyoti Dutta</i>
14.35-14.50	(IE-O-004) Development of CO <sub>2</sub> capture technology using phosphonium amino acid ionic liquids (PAA-ILs) as a green absorbent for enhanced absorption efficiency <i>Shakila Akter</i>



Monday, 23<sup>rd</sup> June 2025  
Mayfair Ballroom C, 11<sup>th</sup> floor



13.30-15.30

Time	Title
<b>REGULAR SESSION</b> <b>FA: Food, Agriculture, and Cosmetics</b>	
<b>Chair:</b> Sirirat Kokpol <b>Co-chair:</b> Wannisa Sukjee	
13.30-13.50	(FA-I-013) From DNA to health & beauty Bioneer 33 yrs history of R&D and business <i>Han-Oh Park</i>
13.50-14.10	(FA-I-006) Analytical approaches for GMO detection in food safety & compliance <i>Malarvili Ramalingam</i>
14.10-14.30	(FA-I-012) Enhancing cosmetic efficacy: Stabilization and delivery of challenging active ingredients <i>Supason Wanichwecharungruang</i>
14.30-14.50	(FA-I-005) A challenge in green-extraction product utilization of Thai herbs in cosmetic formulation <i>Chak Sangma</i>
14.50-15.05	(FA-O-001) Application of photopharmacology in agrochemicals <i>Xusheng Shao</i>
15.05-15.20	(FA O-002) Significance of yield and phytochemical analysis of tea plant ( <i>Camellia sinensis</i> (L.) O. Kuntze) in different rainfall in West Java plantation <i>Yudithia Maxiselly</i>
15.20-15.35	(FA-O-003) From zap to map: How vibrational spectroscopy characterizes PEF-induced changes and rapidly predicts protein content in semi-refined flaxseed extract <i>Jervee Punzalan</i>
15.35-15.50	(FA-O-004) Optimizing tea plant growth and total phenolic content recovery through biofertilization and fertilization strategies after drought <i>Nabila Wiharti</i>



Wednesday, 25<sup>th</sup> June 2025  
Mayfair Ballroom B, 11<sup>th</sup> floor



13.30-15.30

Time	Title
<b>REGULAR SESSION</b> <b>FE: Future in Chemical Education</b>	
<b>Chair:</b> Usa Jeenjenkit <b>Co-chair:</b> Narisra Komalawardhana	
13.30-13.50	(FE-I-009) Simple synthesis of gold nanoparticles (AuNPs) from gold leaf by electrolysis <i>Ekasith Somsook</i>
13.50-14.10	(FE-I-008) Online methods in chemical education: The revolution is here <i>Roderick Bates</i>
14.10-14.30	(FE-I-010) Integrating chemistry education with sustainable development goals: A bio-circular-green economy approach <i>Chatree Faikhamta</i>
14.30-14.50	(FE-I-012) Integrating research into teaching and vice versa <i>Junming Ho</i>
14.50-15.10	(FE-I-011) Development of chemistry education research (CER) as a field of inquiry and current status of CER in the world <i>Mustafa Sözbilir</i>
15.10-15.35	(FE-I-011) A brief introduction to Chemistry Teacher International (CTI) <i>Mustafa Sözbilir</i>



Time	Title
REGULAR SESSION IC: Inorganic Chemistry	
Chair: David Harding      Co-chair: Ekasith Somsook	
10.30-10.45	(IC-O-002) Ru(II)/diphosphine-naphthoquinone complexes as anticancer agents <i>Alzir Azzevedo Batista</i>
10.45-11.00	(IC-O-020) A robust C3-symmetric aluminate hydride for CO <sub>2</sub> hydroboration catalysis: Mechanistic insights and counter-cation influence on catalytic performance <i>Satawat Tongdee</i>
11.00-11.15	(IC-O-014) Synthesis of polyesters using +2 and +3 metal complexes <i>Khamphee Phomphrai</i>

Time	Title
REGULAR SESSION IC: Inorganic Chemistry	
Chair: Ekasith Somsook	
13.30-13.50	(IC-I-023) Symmetry-breaking and polymorphism in iron(III) spin crossover complexes <i>David Harding</i>
13.50-14.10	(IC-I-026) Azo-coupling chemistry in a flow <i>Ling-Kang Liu</i>
14.10-14.25	(IC-O-007) Voltammetric behavior of Keggin-type vanadium-containing polyoxometalates: Redox sites and redox kinetics <i>Tadaharu Ueda</i>
14.25-14.40	(IC-O-010) Insight into the delocalization of excited states in isomorphous palladium(II) and platinum(II) one-dimensional chains <i>Masaki Yoshida</i>
14.40-14.55	(IC-O-019) Tunable metal-free imidazole-benzimidazole-based electrocatalysts for oxygen reduction reaction (ORR) in water <i>Narisara Tanjedrew</i>

Monday, 23<sup>rd</sup> June 2025

13.30-15.30

Mayfair Ballroom B, 11<sup>th</sup> floor

Time	Title
<b>REGULAR SESSION</b> <b>MN: Materials Science and Nanotechnology</b>	
<b>Chair:</b> Vinich Promarak <b>Co-chair:</b> Watcharaphol Paritmongkol	
13.30-13.50	(MN-I-016) A simple, inexpensive and general photoluminescent sensor platform for multiple analytes <i>Uday Maitra</i>
13.50-14.10	(MN-I-002) Hexagonal boron nitrides: Their applications from nanomedicine to nanophotonics <i>Mustafa Culha</i>
14.10-14.30	(MN-I-048) The outstanding performance of mesoporous I-doped-g-C <sub>3</sub> N <sub>4</sub> photocatalyst for antibiotic removal under visible-light irradiation <i>Juan Joon Ching</i>
14.30-14.45	(MN-O-018) Luminescent lanthanide-containing gelatin/polydextran/laponite nanocomposite hydrogels for sensing applications <i>Yi-Cheun Yeh</i>
14.45-15.00	(MN-O-038) ESIPT luminophores for high-performance transparent luminescent solar concentrators <i>Pattarapapa Janthakit</i>
15.00-15.15	(IC-O-008) Discrete coordination nanochains based on photoluminescent dyes reveal intrachain exciton migration dynamics <i>Ryota Sakamoto</i>

Tuesday, 24<sup>th</sup> June 2025

10.30-12.30

Mayfair Ballroom B, 11<sup>th</sup> floor

Time	Title
<b>REGULAR SESSION</b> <b>MN: Materials Science and Nanotechnology</b>	
<b>Chair:</b> Mustafa Culha	
10.30-10.50	(MN-I-051) Impact of nanomaterials on membrane performance enhancement <i>Mustafa Ersöz</i>
10.50-11.10	(MN-I-031) Optimization of the electrophoretic deposition process of recycled Y-alumina coating on titanium for biomedical applications <i>Fitri Khoerunnisa</i>
11.10-11.25	(MN-O-023) Tailoring crystallization in metal organochalcogenide semiconductors: From large structures to nanocrystals <i>Watcharaphol Paritmongkol</i>
11.25-11.40	(MN-O-044) Chelation-free silica sensors for mercury detection and removal <i>Thanudkit Jitjaroendee</i>
11.40-11.55	(MN-O-012) Enhancement of electrocatalytic properties of Au/poly(3,4-ethylenedioxythiophene) hybrid materials by simultaneous Au electrodeposition with electrochemical <i>Tomoyuki Kurioka</i>
11.55-12.10	(MN-O-004) A dual-mode biosensor with CeO <sub>2</sub> nanozyme mediation for RPA/CRISPR-Cas12a detection of <i>Salmonella</i> bacteria <i>Minhaz Uddin Ahmed</i>

Tuesday, 24<sup>th</sup> June 2025Mayfair Ballroom B, 11<sup>th</sup> floor

13.30-15.30

Time	Title
<b>REGULAR SESSION</b> <b>MN: Materials Science and Nanotechnology</b>	
<b>Chair:</b> Juan Joon Ching <b>Co-chair:</b> Vinich Promarak	
13.30-13.50	(MN-I-028) Plasma bio-engineering: Advancing biomimetic devices, biofabrication, and nanomedicine <i>Behnam Akhavan</i>
13.50-14.10	(MN-I-052) Tailoring morphology and electronic properties in nanostructured alloy-chalcogenides: A paradigm for sustainable photo-catalysis <i>Kalyanjyoti Deori</i>
14.10-14.25	(MN-O-010) MOF-NP interface control for catalytic selectivity regulation <i>Lien-Yang Chou</i>
14.25-14.40	(MN-O-001) Rare earth metal promoters (La, Ce, Nd, Sm) on nickel-supported Al <sub>2</sub> O <sub>3</sub> catalysts for ammonia decomposition <i>M. Nasiruzzaman Shaikh</i>
14.40-14.55	(MN-O-019) Electrophoretic deposition of nano catalysts on carbon substrates as an enhanced electrode for manganese/iron flow batteries <i>Barun Kumar Chakrabarti</i>
14.55-15.10	(MN-O-020) Effect of deposition cycles on the catalytic activity of atomic-size gold-modified polyaniline analogues for low alcohol oxidation <i>Keisuke Okamoto</i>
15.10-15.30	(IC-I-027) Sustainable synthesis of heteroarenes via heterogeneous (photo)catalyzed C–H bond functionalization <i>Önder Metin</i>

Wednesday, 25<sup>th</sup> June 2025Mayfair Ballroom B, 11<sup>th</sup> floor

10:30-12:30

Time	Title
<b>REGULAR SESSION</b> <b>NB: Natural Products, Biological Chemistry and Chemical Biology</b>	
<b>Chair:</b> Prasat Kittakoop <b>Co-chair:</b> Chanat Aonbangkhen	
10.30-10.50	(NB-I-014) A game of terpenes: Structure, stereochemistry and biosynthesis of terpenoids from marine animals <i>Mary Garson</i>
10.50-11.10	(NB-I-040) Antiviral and virucidal natural products against SARS-CoV-2, influenza A virus (H1N1), HSV-2, and enterovirus 71 <i>Prasat Kittakoop</i>
11.10-11.30	(NB-I-039) Elucidating the biosynthesis of menisporopsin A, a fungal macrocyclic polylactone <i>Pakorn Wattana-Amorn</i>
11.30-11.45	(NB-O-007) Lignans and phenolic compounds from the whole plant of Balanophora fungosa with DPPH radical scavenging activity and $\alpha$ -glucosidase inhibitory activity <i>Thang Truong</i>
11.45-12.00	(NB-O-010) Semi-synthesis and biological evaluation of dimethylcardamonin (DMC) derivatives as a potential agent against cervical cancer cells <i>Padchanee Sangthong</i>
12.00-12.15	(NB-O-036) Peptidyl liposome for trigger-responsive liposomal delivery <i>Hsien-Ming Lee</i>



Time	Title
<b>REGULAR SESSION</b> <b>OM: Organic Synthesis and Medicinal Chemistry</b>	
<b>Chair:</b> Worawan Bhanthumnavin <b>Co-chair:</b> Paiboon Ngermmeesri	
10.30-10.50	<b>(OM-I-031)</b> One-pot synthesis of dibenzo[b,f]oxepines: Applications to the synthesis of anticancer pacharin, bauhiniastatin 4, baughinoxepins C and D <i>Paiboon Ngermmeesri</i>
10.50-11.05	<b>(OM-O-009)</b> Total synthesis of lobatamides <i>Soichiro Yasui</i>
11.05-11.20	<b>(OM-O-021)</b> Synthesis of natural and unnatural products through selective coupling <i>Roderick Bates</i>
11.20-11.35	<b>(OM-O-038)</b> Molecular reconstruction with stereochemical relay: An investigation into the rearrangement of spiro[4.5]decadienone to benzoxepane <i>Satapanawat Sittihan</i>
11.35-11.50	<b>(OM-O-042)</b> Total synthesis of tilivalline <i>Tun-Cheng Chien</i>

Time	Title
<b>REGULAR SESSION</b> <b>OM: Organic Synthesis and Medicinal Chemistry</b>	
<b>Chair:</b> Worawan Bhanthumnavin <b>Co-chair:</b> Panuwat Padungros	
13.30-13.50	<b>(OM-I-033)</b> Conformational constraint in organic & bioorganic chemistry <i>Minoru Isobe</i>
13.50-14.05	<b>(OM-O-013)</b> Coupling reactions in water using palladium catalysts covalently tethered on a thermo-responsive polymer <i>Noriyuki Suzuki</i>
14.05-14.20	<b>(OM-O-017)</b> Skeletal editing of benzimidazole-based NHCs to quinoxalines by carbon atom insertion <i>Yumiko Suzuki</i>
14.20-14.35	<b>(OM-O-034)</b> On-water accelerated sulfonylation of indole derivatives under visible-light irradiation <i>Seunghoon Shin</i>
14.35-14.50	<b>(OM-O-059)</b> Molybdenum-catalyzed metathesis dimerization/desymmetrization of Cs-symmetric divinylferrocenes <i>Kakeru Masaoka</i>
14.50-15.05	<b>(OM-O-058)</b> Unexpected six-membered ring formation during in situ halogenation of scortechinone D using oxone and sodium halide <i>Ade Danova</i>

Thursday, 26<sup>th</sup> June 2025Mulberry, 10<sup>th</sup> floor

13.30-15.30

Time	Title
<b>REGULAR SESSION</b> <b>OM: Organic Synthesis and Medicinal Chemistry</b>	
<b>Chair:</b> Tirayut Vilaivan <b>Co-chair:</b> Roderick Bates	
13.30-13.50	<b>(OM-I-062)</b> Fluorine-substituted derivatives of gamma-carbolines and carbazoles as a promising drug chemotype for the neurodegenerative disease treatment <i>Sergey Bachurin</i>
13.50-14.05	<b>(OM-O-005)</b> From agricultural by-products to bioactive compounds: The potential of immature pomelo peels (IPPs) in medicinal chemistry <i>Hung Nguyen</i>
14.05-14.20	<b>(OM-O-011)</b> Multifunctional molecular hybrid composed of doxorubicin, AS1411 aptamer, and T9/U4 ASO for targeting colorectal cancer cells <i>Kanpitcha Jiramitmo</i>
14.20-14.35	<b>(OM-O-047)</b> Facile on-bead amidation for the synthesis of cyclic peptides <i>Chai-Lin Kao</i>
14.35-14.50	<b>(OM-O-055)</b> Supramolecular assemblies of porphyrin derivatives for their functional applications <i>Hosooi Lee</i>
14.50-15.10	<b>(OM-I-061)</b> Design and synthesis of unique 5-arylaminothiazoles with tunable photophysical properties <i>Toshiaki Murai</i>

Wednesday, 25<sup>th</sup> June 2025Mayfair Ballroom A, 11<sup>th</sup> floor

10.30-12.30

Time	Title
<b>REGULAR SESSION</b> <b>PC: Polymers and Bio-based Materials</b>	
<b>Chair:</b> Suwabun Chirachanchai <b>Co-chair:</b> Huaizhong Xu	
10.30-10.50	<b>(PC-I-027)</b> Development of high-performance biodegradable biomass plastics and their deep-sea biodegradability <i>Tadahisa Iwata</i>
10.50-11.05	<b>(PC-O-028)</b> Development and evaluation of enzyme-embedded biodegradable plastics for enhanced environmental degradation <i>Qiuyuan Huang</i>
11.05-11.20	<b>(PC-O-026)</b> Controllable thermoplasticity and biodegradability of low-substituted cellulose acetate with PLA graft copolymers <i>Jin Ho Seok</i>
11.20-11.35	<b>(PC-O-020)</b> Biochemical and structural characterization of lignin from Trema orientalis and Trewia nudiflora for biorefinery applications <i>Md Sarwar Jahan</i>
<b>Chair:</b> Tadahisa Iwata <b>Co-chair:</b> Qiuyuan Huang	
11.35-11.50	<b>(PC-O-015)</b> Catalytic lignin-arylated fractionation of hemp shives using a biobased nucleophile <i>Avinash Pai</i>
11.50-12.05	<b>(PC-O-013)</b> A woody composite from arylated lignin and cellulose via one-step fractionation <i>Shida Zuo</i>
12.05-12.20	<b>(PC-O-024)</b> Synthesis and characterization of bio-based non-isocyanate polyurethane foam from oil-based polyol with lignin-derivatives for flame-retardant properties <i>Thanyarat Pakaw</i>
12.20-12.35	<b>(PC-O-014)</b> Flame-retardant coating prepared from prehydrolysis liquors <i>Lars Schick</i>

Time	Title
<b>REGULAR SESSION</b> <b>PC: Polymers and Bio-based Materials</b>	
<b>Chair:</b> Makoto Takafuji <b>Co-chair:</b> Tulay Inan	
13.30-13.50	(PC-I-032) Melt electrowriting 3D printing of biobased polymers <i>Huazhong Xu</i>
13.50-14.05	(PC-O-005) Novel endolysin treatment with PVA produced by electrospinning for potential antibacterial <i>Jian-Jhou Chen</i>
14.05-14.20	(PC-O-006) Structure regulation of polydextran-based hydrogel by monk fruit saponin: Surmount the dilemma between the stability of hydrogel and bacteriophage release <i>Reuben Wang</i>
14.20-14.35	(PC-O-003) Optimizing superabsorbent hydrogel-biochar composites synthesis as efficient water-retention agent <i>Cindy Tan</i>
<b>Chair:</b> Tadahisa Iwata <b>Co-chair:</b> Qiuyuan HUANG	
14.35-14.50	(PC-O-008) 1 ppm-detectable hydrogen gas sensor based on nanostructured polyaniline <i>Salimgerey Adilov</i>
14.50-15.05	(PC-O-019) Zirconium-based MOF/corn-cob-derived biopolymer composite for enhancing biogas purification <i>Boonyawee Saengsawang</i>
15.05-15.20	(PC-O-025) Areca to eureka: utilization of areca husk for sustainable packaging and construction in a circular bioeconomy <i>Girija Vedamurthy</i>
15.20-15.35	(PC-O-016) Preparation of multifunctional composites for electromagnetic interference (EMI) shielding applications using CuO modified MXene and forestry wastes <i>Tulay Inan</i>
15.35-15.50	(PC-O-011) Stimuli-responsive fluorochromic polymer nanoparticles with polycyclic aromatic backbone <i>Makoto Takafuji</i>

Time	Title
<b>REGULAR SESSION</b> <b>PT: Physical and Theoretical Chemistry</b>	
<b>Chair:</b> Andrew W. King <b>Co-chair:</b> Nawee Kungwan	
13.30-13.50	(IC-I-011) Phosphorescent metal complexes for optoelectronic applications <i>Wai-Yeung Wong</i>
13.50-14.10	(PT-I-022) Zeolite-based strategies for CO <sub>2</sub> capture and methanation <i>Jatuporn Wittayakun</i>
14.10-14.30	(PT-I-021) Sunlight-driven detoxification of harmful antibiotics in the environment by using metal oxide photocatalysts <i>Suwat Nanan</i>
14.30-14.50	(PT-I-015) Understanding peptide self-assembly: bionanostructures and antimicrobial peptides <i>Seokmin Shin</i>
14.50-15.10	(PT-I-019) Oxidative upcycling of polyethylene waste into dicarboxylic acid <i>Lei Huang</i>
15.10-15.25	(PT-O-003) Lantern organic frameworks: A new 3D material concept from computer-aided design <i>Lam Ngugen</i>



Tuesday, 24<sup>th</sup> June 2025  
Jubilee Ballroom A, 11<sup>th</sup> floor



10.30-12.30

Time	Title
<b>REGULAR SESSION</b> <b>PT: Physical and Theoretical Chemistry</b>	
<b>Chair:</b> Nawee Kungwan <b>Co-chair:</b> Andrew W. King	
10.30-10.55	<b>(PT-K-020)</b> Chiral Molecules and Solids for Spintronics <i>Hiroshi Yamamoto</i>
10.55-11.05	<b>(PT-I-026)</b> The Thailand Public Energy Materials Database 2.0 (TPEM 2.0) for catalyst and energy materials design <i>Supareak Praserttham</i>
11.05-11.25	<b>(PT-I-017)</b> Mechanistic study of thioester hydrolysis catalyzed by boric acid and its derivatives <i>Manussada Ratanasak</i>
11.25-11.45	<b>(PT-I-018)</b> Software development and application for material design based on the statistical mechanics theory of liquids <i>Norio Yoshida</i>
11.45-12.05	<b>(PT-I-023)</b> Understanding 3d transition metal carbonyl bonding from multistate coupling <i>Kaito Takahashi</i>



Tuesday, 24<sup>th</sup> June 2025  
Jubilee Ballroom A, 11<sup>th</sup> floor



13.30-15.30

Time	Title
<b>REGULAR SESSION</b> <b>PT: Physical and Theoretical Chemistry</b>	
<b>Chair:</b> Supareak Praserttham <b>Co-chair:</b> Nawee Kungwan	
13.30-13.55	<b>(PT-K-012)</b> A novel enzymatic reaction mechanism analysis method using QM/MM MD <i>Yasuteru Shigeta</i>
13.55-14.20	<b>(PT-K-004)</b> GenAI for autonomous chemistry labs <i>Deva Priyakumar</i>
14.20-14.40	<b>(PT-I-027)</b> Machine learning-based QSAR application on ebsulfur and ebselen derivatives for SAR-CoV-2 main targeting for COVID-19 <i>Phornpimon Maitarak</i>
14.40-15.00	<b>(PT-I-024)</b> Rational design of 2D materials for hydrogen storage: Tuning metal-adsorbate interactions via defect engineering <i>Suwit Suthirakun</i>



Time	Title
<b>SPECIAL SESSION</b> <b>S1: Thailand-Japan Bilateral Symposium: Advancing Synchrotron Science through Experimental and Computational Chemistry Synergy</b>	
<b>Chairs:</b> Seiji Mori & Panida Surawatanawong	
13.30-13.45	<b>(S1-I-006)</b> Introduction to the Thailand-Japan Bilateral Symposium: Advancing Synchrotron Science through Experimental and Computational Chemistry Synergy <i>Seiji Mori</i>
13.45-14.10	<b>(S1-K-004)</b> X-ray absorption spectroscopy: The state-of-the-art synchrotron-based characterization for energy materials <i>Pinit Kidkhunthod</i>
14.10-14.15	<b>(S1-I-012)</b> Nickel or palladium-catalyzed decarbonylative transformations of acyl fluorides and Chlorides <i>Yasushi Nishihara</i>
14.15-14.20	Break
14.30-14.45	<b>(S1-I-018)</b> Mechanistic insights into C-F bond activation and N-heterocycle functionalization by metal-ligand cooperative catalysts: distinct bonding interactions <i>Panida Surawatanawong</i>
14.45-15.00	<b>(S1-I-013)</b> Pd-catalyzed synthesis of allenes: experimental observations and theoretical rationale <i>Masamichi Ogasawara</i>
15.00-15.15	<b>(S1-I-010)</b> Towards sustainable energy solutions: Novel materials and architectures for zinc-air batteries <i>Soorathep Kheawhom</i>
15.15-15.30	<b>(S1-I-011)</b> Nano-structured heterogeneous catalysts for organic syntheses <i>Yoichi M. A. Yamada</i>

Time	Title
<b>SPECIAL SESSION</b> <b>S1: Thailand-Japan Bilateral Symposium: Advancing Synchrotron Science through Experimental and Computational Chemistry Synergy</b>	
<b>Chairs:</b> Siriporn Jungsttiwong & Yoichi M. A. Yamada	
10.30-10.55	<b>(S1-K-020)</b> A novel reaction path-based method for chemical reaction analysis: reaction space projector and natural reaction orbitals <i>Tetsuya Taketsugu</i>
10.55-11.10	<b>(S1-I-015)</b> Characterisation of various materials using XAFS spectra at Photon Factory <i>Hitoshi Abe</i>
11.10-11.25	<b>(S1-I-016)</b> Structural isomerization and molecular adsorption properties of ligand-protected metal clusters studied by XAFS <i>Seiji Yamazoe</i>
11.25-11.40	<b>(S1-I-005)</b> Red light uncaging reactions of organorhodium phthalocyanine complexes: experimental and theoretical insights <i>Kei Murata</i>
11.40-11.55	<b>(S1-I-008)</b> Reaction mechanism and catalyst design of transition metal complexes <i>Jun-ya Hasegawa</i>
11.55-12.05	<b>(S1-O-001)</b> <i>In-situ</i> QXAFS study of CO <sub>2</sub> adsorption behavior on Nb and Ta heteropolyoxometalate <i>Nattamon Panichakul</i>

Time	Title
<b>SPECIAL SESSION</b>	
<b>S1: Thailand-Japan Bilateral Symposium: Advancing Synchrotron Science through Experimental and Computational Chemistry Synergy</b>	
<b>Chairs:</b> Pinit Kidkhunthod & Kei Murata	
13.30-13.55	(S1-K-002) Low-temperature sintering of sub-oxidized copper nanoparticles for power device <i>Tetsu Yonezawa</i>
13.55-14.20	(S1-K-021) From capture to conversion: Theoretical insights into CO <sub>2</sub> valorization <i>Supawadee Namuangruk</i>
14.20-14.35	(S1-I-014) Operando X-ray absorption spectroscopy development for catalytic ethanol reforming Research <i>Yingyot Poo-arporn</i>
14.35-14.50	(S1-I-009) Innovative battery technologies for sustainable energy: Integrating experimental and DFT insights <i>Siriporn Jungsuttiwong</i>
14.50-15.06	(S1-I-017) Integrating operando X-ray absorption spectroscopy (XAS)-mass spectrometry (MS)-gas chromatography (GC) technique for characterization of cobalt-based catalysts in ethanol dehydrogenation and reverse water gas shift reaction <i>Nattawut Osakoo</i>
15.05-15.15	Concluding remarks <i>Siriporn Jungsuttiwong</i>

Time	Title
<b>SPECIAL SESSION</b>	
<b>S2: Catalytic Systems for Contemporary Challenges</b>	
<b>Chairs:</b> Alexander Kuhn & Chularat Wattanakit	
10.30-11.00	(S2-K-029) Catalysis at interfaces: Atom-efficient metal catalysts based on single atoms, clusters and nanoparticles <i>Emiel Hensen</i>
11.00-11.20	(S2-I-032) Histidine stabilization for supported metal nanoparticles: a simple trick for a big problem in thermal catalysis <i>Alex C. K. Yip</i>
11.20-11.40	(S2-I-018) Nickel phyllosilicate catalyst derived from bagasse fly ash for H <sub>2</sub> production via dry reforming of methane <i>Sanchai Kuboon</i>
11.40-12.00	(S2-I-026) Rational design of zeolite-based catalysts for industrially relevant chemical processes <i>Ma Cristina Martínez Sánchez</i>
12.00-12.15	(S2-O-009) Direct catalytic conversion of xylose into furfuryl alcohol over bifunctional acid-nickel porous carbon catalysts <i>Piyamit Tomsri</i>



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Jubilee Ballroom B, 11<sup>th</sup> floor



13.30-15.30

Time	Title
<b>SPECIAL SESSION</b> <b>S2: Catalytic Systems for Contemporary Challenges</b>	
<b>Chairs:</b> Emiel Hensen & Supawadee Namuangruk	
13.30-14.00	(S2-K-028) Magnetic field-assisted, environmentally friendly catalytic CO <sub>2</sub> conversion to value-added chemicals for responsible chemical processes <i>Metta Chareonpanich</i>
14.00-14.20	(S2-I-030) Biopolymer-stabilized gold nanoparticles for the organic transformation catalyst <i>Hidehiro Sakurai</i>
14.20-14.40	(S2-I-031) Gallium based catalysts for selective chemical synthesis <i>Sarina Sarina</i>
14.40-15.00	(S2-I-002) Catalyst design for acceleration of unconventional electro-assisted molecular conversions: beyond the thermodynamic equilibrium limit <i>Shinya Furukawa</i>
15.00-15.15	(S2-O-007) Ruthenium catalyzed additive-free N-formylation of amines with CO <sub>2</sub> and H <sub>2</sub> : exploring carbon neutral hydrogen cycle <i>Indranil Dutta</i>
15.15-15.30	(S2-O-003) Novel nickel phosphite/NHC precatalysts for cross coupling reactions under mild conditions <i>Scott Stewart</i>



Wednesday, 25<sup>th</sup> June 2025  
Jubilee Ballroom B, 11<sup>th</sup> floor



10.30-12.30

Time	Title
<b>SPECIAL SESSION</b> <b>S2: Catalytic Systems for Contemporary Challenges</b>	
<b>Chairs:</b> Shinya Furukawa & Chularat Wattanakit	
10.30-11.00	(S2-K-021) Targeted design of janus particles for improved photocatalytic hydrogen evolution <i>Alexander Kuhn</i>
11.00-11.20	(S2-I-024) Preparation of Janus particles by bipolar electrochemistry at the water-organic interface <i>Lin Zhang</i>
11.20-11.40	(S2-I-004) Miniaturized wireless electrochemical flow reactor for complex tasks <i>Serena Arnaboldi</i>
11.40-12.00	(S2-I-025) Understanding the role of copper-based materials in electrochemical applications <i>Kamonwad Ngamchuea</i>
12.00-12.20	(S2-I-027) Advances in tailored functional nanomaterials on microfluidic paper-based devices for optical sensing innovations <i>Purim Jarujamrus</i>
12.20-12.35	(S2-O-008) Wireless flux reactors for asymmetric electrosynthesis using green chiral media <i>Sara Grecchi</i>

Time	Title
<b>SPECIAL SESSION</b> <b>S2: Catalytic Systems for Contemporary Challenges</b>	
<b>Chairs:</b> Günther Rupprechter & Thidarat Imyen	
13.30-14.00	<b>(S2-K-023)</b> Tailoring nanocatalysts for CO <sub>2</sub> upcycling <i>Jun Huang</i>
14.00-14.30	<b>(S2-K-022)</b> Tackling challenges in catalysis: surface science, in situ microscopy and waste valorization <i>Günther Rupprechter</i>
14.30-14.50	<b>(S2-I-020)</b> Towards ultrahigh osmotic energy harvesting by MOF and COF based ionic diode membranes <i>Li-Hsien Yeh</i>
14.50-15.05	<b>(S2-O-013)</b> Selective imine synthesis by supported Ag nanoparticle catalyst modified with basic polyoxometalate <i>Shoji Fukuda</i>
15.05-15.20	<b>(S2-O-014)</b> Tailoring metal-organic frameworks for enhanced ammonia production through non-thermal plasma catalysis <i>Tatchamapan Yoskamtorn</i>

Time	Title
<b>SPECIAL SESSION</b> <b>S3: Advanced Coordination Materials and Catalysis for Environment</b>	
<b>Chair:</b> Michel Wong Chi Man <b>Co-chair:</b> Nobuto Yoshinari	
10.30-11.00	<b>(S3-K-001)</b> Redox-neutral approaches to organo-phosphinates and phosphates: Cross-metathesis and phosphate activation strategies <i>Jan J. Weigand</i>
11.00-11.25	<b>(S3-I-005)</b> Direct conversion of n-alkanes to alkylidynes on diruthenium complexes at ambient temperature <i>Yi-Chou Tsai</i>
11.25-11.50	<b>(S3-I-007)</b> Reactions of HMF, FDCA, and BHMF <i>Ekasith Somsook</i>
11.50-12.15	<b>(S3-I-004)</b> Single-ion conducting borate network polymer electrolytes for lithium metal battery applications <i>Dong-Myeong Shin</i>



Wednesday, 25<sup>th</sup> June 2025  
Jubilee Ballroom A, 11<sup>th</sup> floor



13.30-15.30

Time	Title
<b>SPECIAL SESSION</b> <b>S3: Advanced Coordination Materials and Catalysis for Environment</b>	
<b>Chair:</b> Jan J. Weigand <b>Co-chair:</b> Dong-Myeong Shin	
13.30-14.00	(S3-K-008) Catalysis for the environment: Sustainability for the chemical industry <i>A. Stephen K. Hashmi</i>
14.00-14.25	(S3-I-003) Development of supramolecular frameworks of metal-organic carboxylates <i>Nobuto Yoshinari</i>
14.25-14.50	(S3-I-010) Silsesquioxane materials: Application to catalysis and to nanomedical fields <i>Michel Wong Chi Man</i>
14.50-15.15	(S3-I-009) Silsesquioxanes-based functional materials for sustainable development <i>Hongzhi Liu</i>
15.15-15.35	(S3-O-002) Metal-acetylide frameworks: Synthesis, characterization, and optical and catalytic properties <i>Linli Xu</i>



Thursday, 26<sup>th</sup> June 2025  
Jubilee Ballroom B, 11<sup>th</sup> floor



10.30-12.30

Time	Title
<b>SPECIAL SESSION</b> <b>S4: Understanding and Development to Address the PFAS Problems in Thailand for Sustainable Environment</b>	
<b>Chair:</b> Chongrak Polprasert <b>Co-chairs:</b> Suratsawadee Sukeesan & Amornpon Changsuphan	
09.20-09.50	Understanding and development to address the PFAS problems in Thailand for sustainable environment <i>Nudjarin Ramungul</i>
	Unveiling the PFAS footprint: Environmental, dietary, and human exposure in Thailand <i>Tawit Suriyo</i>
10.10-11.00	Trends and challenges in treatment approaches for PFAS contamination in the environment <i>Pitchaya Piyaviriyakul</i>
	Approaches to PFASs laboratory development in The Department of Science Service <i>Angkhana Khachonwongwattana</i>
	<b>Group discussion</b> Urgent need to address the “PFAS problem” by improving PFAS testing to an accredited PFAS laboratory <b>Panelists:</b> <i>Chongrak Polprasert</i> <i>Nudjarin Ramungul</i> <i>Suratsawadee Sukeesan</i> <i>Narin Boontanon</i> <b>Moderator:</b> <i>Amornpon Changsuphan</i>
11.00-12.00	





Monday, 23<sup>rd</sup> June 2025



13.30-16.00



Kensington Ballroom A, 5<sup>th</sup> floor

Time	Title
<b>SPECIAL SESSION</b>	
<b>S5: AI in Drug Discovery Research</b>	
<b>Chairs:</b> Pornpan Pungpo, Patchreenart Saparpakorn, Duangkamol Gleeson	
13.30-13.55	(S5-K-007) Revolutionizing drug discovery: The transformative power of AI in therapeutics <i>David Winkler</i>
13.55-14.20	(S5-K-004) Developing new methods for drug design and repositioning <i>Weiliang Zhu</i>
14.20-14.40	(S5-I-005) Identification of USP2 dynamic pocket as a novel anticancer target <i>Zhijian Xu</i>
14.40-15.00	(S5-I-001) Deep learning for identifying bioactive compounds and predicting drug synergy <i>Teeraphan Laomettachit</i>
15.00-15.20	(S5-I-002) MANORAA.ai as a co-scientist for drug <i>Duangrudee Tanramluk</i>
15.20-15.40	(S5-I-008) Cheminformatics-guided optimization of the antimalarial activity and physicochemical properties of 2,4-diaminopyrimidines <i>Mathew Paul Gleeson</i>
15.40-15.50	(S5-I-014) Antimalarial activity prediction of enantiomeric cycloguanil analogues using extremely randomized trees and particle swarm optimized-support vector regression intelligent approaches <i>Luckhana Lawtrakul</i>
15.50-16.00	(S5-I-021) Drug discovery and hit to lead optimization of potent inhibitors as antituberculosis agents <i>Pornpan Pungpo</i>



Wednesday, 25<sup>th</sup> June 2025



10.30-12.30



Mulberry, 10<sup>th</sup> floor

Time	Title
<b>SPECIAL SESSION</b>	
<b>S6: Advances in Nutraceutical Chemistry Shaping the Future of Disease Prevention in Asia</b>	
<b>Chair:</b> Yodchai Tangjaideborisut <b>Co-chair:</b> Kampol Poophawattanakij	
10.25-11.00	(S6-K-013) The role of natural and organic ingredients as emerging nutrition trends <i>Natphasuth Patthirasinsir</i>
11.00-11.35	(S6-K-014) Buying health on the shelf: New life-changing healthy products in stores 2025 <i>Kampol Poophawattanakij</i>
11.35-11.55	(S6-I-006) Branding value in health products <i>Jakraphan Punyapapha</i>

Time	Title
<b>SPECIAL SESSION</b> <b>S6: Advances in Nutraceutical Chemistry Shaping the Future of Disease Prevention in Asia</b>	
<b>Chair:</b> Yodchai Tangjaideborisut <b>Co-chair:</b> Kampol Poophawatanakij	
13.00-13.20	<b>(S6-I-007)</b> Nutraceutical market in practice in Vietnam presented <i>Nguyen Dinh Trung &amp; Yodchai Tangjaideborisut</i>
13.20-13.40	<b>(S6-I-008)</b> A functional nutraceutical for appetite stimulation and gut health in companion animals- MEWLICIOUS <i>Karsidete Teeranitayataru</i>
13.40-13.45	<b>(S6-I-009)</b> Microwave-assisted biosynthesis of quercetin-stabilized gold nanoparticles with enhanced antibacterial and catalytic properties <i>Supakorn Boonyuen</i>
13.45-15.00	<b>(S6-I-010)</b> Anthocyanin rich-berry extracts coated magnetic Fe <sub>3</sub> O <sub>4</sub> bionanocomposites and their antibacterial activity <i>Pariya Na Nakorn</i>
15.00-15.15	<b>(S6-I-011)</b> Green synthesis of silver and gold nanoparticles using <i>Oroxylum indicum</i> plant extract for catalytic and antimicrobial activity <i>Paramasivam Shanmugam</i>
15.15-15.30	<b>(S6-I-012)</b> Plant waste as a silver nano catalyst: Assessing their application in bioremediation <i>Mathivathani Kandiah</i>
15.30-15.45	<b>(S6-K-015)</b> Nano-enhanced nutraceuticals: Pioneering solutions for next-generation preventive healthcare <i>Uracha Ruktanonchai</i>
15.45-16.00	<b>(S6-O-001)</b> Eco-friendly fabrication of copper oxide nanoparticles via <i>Azadirachta indica</i> and <i>Curcuma longa</i> extracts: Unlocking potent antibacterial potential <i>Ghulam Mustafa Kamal</i>
16.00-16.15	<b>(S6-O-017)</b> Evaluation of the antioxidant and antibacterial activities of the crude extract of <i>Rhinacanthus nasutus</i> <i>Bongkochawan Pakamwong</i>

Time	Title
<b>SPECIAL SESSION</b> <b>S8: Green Chemistry: Paving the Way to a Sustainable Future</b>	
<b>Chair:</b> Yoshito Andou <b>Co-chair:</b> Jacqueline Lease	
10.00-10.25	<b>(S8-K-002)</b> Sustainability based on green chemistry of novel domino reactions <i>Reuben Jih-Ru Hwu</i>
10.25-10.45	<b>(S8-I-021)</b> Environmental benign materials through ligno-cellulose <i>Yoshito Andou</i>
10.45-11.05	<b>(S8-I-022)</b> Sustainable esterification technique for bio-based cellulose esters <i>Jacqueline Lease</i>
11.05-11.25	<b>(S8-I-023)</b> Recent Advances in the catalytic conversion of bioethanol to green chemicals over heterogeneous catalysts <i>Bunjerd Jongsomjit</i>

11.25-11.45 (S8-I-012) Next-gen molecular design: Integrating quantum computing, AI, computer-aided molecular design (CAMD) and blockchain for a sustainable future in healthcare, energy, and the environment

*Vannajan Lee*

11.45-12.05 (S8-I-011) Magnetic duckweed-derived adsorbent for efficient methylene blue removal: A green and cost-effective approach

*Alvin Zheng*



Thursday, 26<sup>th</sup> June 2025



13.30-15.30



Jubilee Ballroom A, 11<sup>th</sup> floor

Time	Title
<b>SPECIAL SESSION</b>	
<b>S8: Green Chemistry; Paving the Way to a Sustainable Future</b>	
<b>Chair:</b> Yoshito Andou <b>Co-chair:</b> Jacqueline Lease	
13.00-13.15	(S8-O-020) Data-driven strategies for accelerated MOFs design and synthesis <i>Hongyi Gao</i>
13.15-13.30	(S8-O-010) Kinetic model analysis and response surface methodology optimization in citronella extraction using microwave hydrodistillation and solvent-free microwave <i>Patar Sipahutar</i>
13.30-13.45	(S8-O-009) Photocatalytic non-oxidative coupling of methane over Ag-Doped ZnO/TiO <sub>2</sub> -SiO <sub>2</sub> composite catalysts <i>Surached Thongboon</i>
13.45-14.00	(S8-O-007) Effective hydrothermal carbonization and sulfonation of water hyacinth husk to prepare a carbonaceous catalyst for the dehydration of xylose to furfural <i>Vinh Doan</i>
14.00-14.15	(S8-O-006) Self-powered water purification using a hybrid piezoelectric-photocatalytic system <i>Likhith M P</i>
14.15-14.30	(S8-O-001) Environmentally friendly electrodeposition of conducting polymers using supercritical carbon dioxide-with-water emulsified electrolytes <i>Punvinai Vinaisuratarn</i>



Tuesday, 24<sup>th</sup> June 2025



10.30-12.30



Mayfair Ballroom C, 11<sup>th</sup> floor

Time	Title
<b>SPECIAL SESSION</b>	
<b>S9: Ryoji Noyori ACES Awards Symposium</b>	
<b>Chair:</b> Uday Maitra	
10.30-10.40	Prof. Ryoji Noyori (a short video) about the Ryoji Noyori ACES Award Symposium, 20 <sup>th</sup> years of ACES and Chemistry – An Asian Journal, and congratulation message to the ACES award winner
10.40-11.15	(S9-I-003) Transition metal enolate chemistry: Past, present, and future <i>Mikiko Sodeoka</i>
11.15-11.50	(S9-I-001) Synthesis with boron at the helm <i>Varinder Aggarwal</i>
11.50-12.25	(S9-I-002) Developing new synthetic methodologies of dearomatization reactions <i>Shu-Li You</i>



Tuesday, 24<sup>th</sup> June 2025  
Mayfair Ballroom C, 11<sup>th</sup> floor



13.30-15.30

Time	Title
<b>SPECIAL SESSION</b> <b>S9: Ryoji Noyori ACES Awards Symposium</b>	
<b>Chair:</b> Dinesh Talwar	
13.30-14.00	(S9-I-007) Exo-selective intramolecular (4+3) cycloadditions of epoxy enolsilanes <i>Pauline Chiu</i>
14.00-14.30	(S9-I-004) Spin states matter - fundamentals, applications and translation to drug discovery <i>Rene M. Königs</i>
14.30-15.00	(S9-I-005) Stereodivergence in catalytic asymmetric conjugate additions <i>Sarah Yunmi Lee</i>
15.00-15.30	(S9-I-006) Multifunctional chemical biology tools: Advances in synthetic strategies for small molecules and bioconjugates <i>Yen-Chun Lee</i>
15.30	Closing remarks <i>Dinesh Talwar, EiC, Chemistry – An Asian Journal</i>



Monday, 23<sup>rd</sup> June 2025  
Jubilee Ballroom B, 11<sup>th</sup> floor



13.30-15.30

Time	Title
<b>SPECIAL SESSION</b> <b>SA: Young Career Development under FACS-ACS Collaboration</b>	
<b>Chair:</b> Monthip Sriratana Tabucanon <b>Co-chair:</b> Ittipat Meewan	
13.30-14.00	(SA-K-001) Adding value to Asia chemistry: Reflections on forty years of research, networking and mentorship <i>Mary Garson</i>
14.00-14.20	(SA-I-003) Cross-cultural perspectives on becoming an outstanding scientist <i>Vannajan Sanghiran Lee</i>
14.20-14.40	(SA-I-004) Your career compass: Guidelines for success and pitfalls to avoid <i>Siwaporn Mejjoo Smith</i>
14.40-15.00	(SA-I-002) Horizon Europe Strategic Plan 2025-2027: Unlocking opportunities for collaboration in research funding <i>Tatus Brotsudarmo</i>
15.00-15.30	<b>Panel discussion</b> Exchange idea with Panelists and suggestion for young career development for future <b>Panelists:</b> <i>Mary Garson</i> <i>Vannajan Sanghiran Lee</i> <i>Siwaporn Mejjoo Smith</i> <i>Tatus Brotsudarmo</i>  <b>Moderator:</b> <i>Monthip Sriratana Tabuganon</i> <i>Ittipat Meewan</i>

Time	Title
<b>SPECIAL SESSION</b> <b>SB: TU-Frontier Lab-JEOL joint session Contaminants of Emerging Concern: PFAS &amp; Microplastics</b>	
<b>Chair:</b> Sathrugnan Karthikeyan <b>Co-chair:</b> Chanatip Samart	
13.30-13.50	<b>(SB-I-003)</b> Ocean microplastic pollution, current status and future view from the Atlas of Ocean Microplastic (AOMI) database <i>Atsuhiko Isobe</i>
13.50-14.10	<b>(SB-I-006)</b> Determination of microplastic particles in natural waters by Pyrolysis-GCMS <i>Sathrugnan Karthikeyan</i>
14.10-14.30	<b>(SB-I-005)</b> Enhancing the analytical performane of microplastic in water sample <i>Chanatip Samart</i>
14.30-14.50	<b>(SB-I-004)</b> Advanced polymer/material analysis with pyrolyzer-GC-HRTOFMS and AI-based software solutions <i>Masaaki Ubukata</i>
14.50-15.05	<b>(SB-O-001)</b> Covalent organic frameworks for the detection and removal of perfluorooctanoic acid from water <i>Ali Trabolsi</i>
15.05-15.20	<b>(SB-O-002)</b> Detection of PFAS by diblock copolymer PS-b-P4VP in complex emulsions at ppb levels <i>Narani Rakesh</i>

Time	Title
<b>SPECIAL SESSION</b> <b>SC: Sustainable chemistry Focusing on Clean energy Good Health and Well-Being (Thailand-Taiwan)</b>	
<b>Chair:</b> Suwadee Kongparakul <b>Co-chair:</b> Shuchen Hsieh	
10.30-10.50	<b>(SC-I-009)</b> Electrolyte additives for enhanced performance in lithium-ion batteries <i>Jyh-Tsung Lee</i>
10.50-11.10	<b>(SC-I-008)</b> Durable anode electrocatalysts through acidic redox-assisted deposition for seawater electrolysis <i>Chun-Hu Chen</i>
11.10-11.30	<b>(SC-I-003)</b> Homogeneous catalysis by coordination complexes of mismatched donor-acceptor pairs <i>Lan-Chang Liang</i>
11.30-11.50	<b>(SC-I-006)</b> Approaches to the design of oxygen-tolerant electrocatalysts for hydrogen evolution reaction <i>Vincent Wang</i>
11.50-12.05	<b>(SC-O-001)</b> Enhancing ionic conductivity in LiFePO <sub>4</sub> composite cathodes for solid-state batteries through dispersed LLZTO <i>Jaturon Kumchompoo</i>
12.05-12.20	<b>(SC-O-004)</b> Enhanced electrochemical performance of NiTiO <sub>3</sub> via NaBH <sub>4</sub> reduction for supercapacitor applications <i>Nareekarn Meebua</i>
12.20-12.35	<b>(SC-O-005)</b> Exploring sulfonamide-modified phytocannabinoids for anti-inflammatory leads: A computational study <i>Panichakorn Jaiyong</i>
12.35-12.50	<b>(SC-O-002)</b> DNA aptamer (LepDapt) against LipI32 as a potential diagnostic agent for detection of Leptospira <i>Tri Cao Vu</i>





Monday, 23<sup>rd</sup> June 2025  
The Lounge, 10<sup>th</sup> floor



13.30-15.30

Time	Title
<b>SPECIAL SESSION</b> <b>SD: IMS-CU Bilateral Symposium for Driving Forward Frontier Research</b>	
<b>Chair:</b> Kanet Wongravee	<b>Co-chair:</b> Boodsarin Sawatlon
13.30-13.45	(SD-I-001) Rational engineering of high performance artificial molecular motors <i>Ryota Iino</i>
13.45-14.00	(SD-I-007) Revisiting the desulfurization process via photochemical or electrochemical routes: A mild and green approach to heterocycle synthesis <i>Sumrit Wacharasindhu</i>
14.00-14.15	(SD-I-003) One day about 2.2 billion years ago, cyanobacteria anticipated the timing of the next sunrise <i>Shuji Akiyama</i>
14.15-14.30	(SD-I-002) Chirality-induced spin selectivity in chiral solids <i>Hiroshi Yamamoto</i>
14.30-14.45	(SD-I-005) Microwave-assisted, shape-controlled synthesis of nanoparticles: The case of iron oxide nanocubes <i>Wid Mekseriwattana</i>
14.45-15.00	(SD-I-004) Molecular dynamics simulation of protein aggregation <i>Hisashi Okumura</i>
15.00-15.15	(SD-I-006) Enhancing the catalytic efficiency of MOFs for cellulose hydrolysis via postsynthetic modification with chlorosulfonic acid <i>Preecha Kittikhunnatham</i>



Tuesday, 24<sup>th</sup> June 2025  
The Lounge, 10<sup>th</sup> floor



10.00-12.30

Time	Title
<b>SPECIAL SESSION</b> <b>SE: Unlocking the Power of Nature: Cutting-Edge Applications of Natural Products, Biological Chemistry, and Chemical Biology</b>	
<b>Chair:</b> Priyani Paranagama	<b>Co-chair:</b> Suranga Wickramarachchi
10.00-10.25	(SE-K-017) Scientific insights into indigenous formulations: A pathway to natural therapies for obesity, diabetes, hypertension, and oxidative stress <i>Priyani Paranagama</i>
10.25-10.50	(SE-K-018) Plants as the source of renewable chemicals for a sustainable society: Applications in advanced functional material, drug delivery and cancer therapy <i>Braja Gopal Bag</i>
10.50-11.15	(SE-K-019) Environmental toxins and heavy metal exposure: Unraveling risk factors for chronic kidney disease of unknown etiology (CKDu) in endemic regions <i>Janitha Liyanage</i>
11.15-11.35	(SE-I-011) Cinnamon bark oil-based gelatin-chitosan composite films for active food packaging application <i>Suranga Wickramarachchi</i>
11.35-11.55	(SE-I-012) Toxic metals and their availability to paddy ( <i>Oryza sativa</i> ) plants via inorganic fertilizers: A study in a CKDu hotspot in the north central province in Sri Lanka <i>Jeewantha Premarathna</i>
11.55-12.15	(SE-I-013) Absorption of selected pesticide residues during cooking by <i>Murraya koenigii</i> <i>Thelma Abeshinghe</i>

Time	Title
<b>SPECIAL SESSION</b> <b>SE: Unlocking the Power of Nature: Cutting-Edge Applications of Natural Products, Biological Chemistry, and Chemical Biology</b>	
<b>Chair:</b> Priyani Paranagama <b>Co-chair:</b> Suranga Wickramarachchi	
13.00-13.20	(SE-I-014) Exploring the therapeutic potential of <i>Dialium ovoideum</i> Thwaites <i>Dinusha Udukala</i>
13.20-13.40	(SE-I-015) Appraisal of toxic metal contamination of agricultural soil and food in upcountry and CKDu-endemic lowland regions of Sri Lanka <i>Ruwan Perera</i>
13.40-14.00	(SE-I-016) Biochar surface functionality as affected by acid-base modifications: FTIR-based principal component <i>Ranmal Gunathilake</i>
14.00-14.15	(SE-O-010) Synthesis, in vitro and in silico evaluation of alpha-amylase and alpha-glucosidase inhibitory activities of 2-phenyl-3H-quinazoline-4-one derivatives as novel anti-diabetic agents and their kinetic activities <i>Swapna Pathirana</i>
14.15-14.30	(SE-O-001) Evaluation of antioxidant, anti-inflammatory and antimicrobial effects of Rohanaekaash Lepaya; Ayurveda herbal medicine <i>Dilmi Chathumika</i>
14.30-14.45	(SE-O-020) Growth inhibition of aflatoxigenic <i>Aspergillus</i> spp. in stored rice by cinnamon bark oil-chitosan microcapsules and detection of aflatoxins in untreated rice by thin layer chromatography <i>K.D.C. Shivanthini</i>
14.45-15.00	(SE-O-002) Preliminary investigation of kshara powder of <i>Erythrina variegata</i> used in Ayurveda <i>Aruni Alwis</i>
15.00-15.15	(SE-O-003) Preparation and bioactivity of indigenous formula used as hair care oil <i>Waruna Weerasekara</i>
15.15-15.30	(SE-O-008) Potent insulin secretagogues from traditionally used medicinal plants <i>Achyut Adhikari</i>
15.30-15.45	(SE-O-004) Ferritin and ferritin-sfGFP based nanoparticles for metalloenzyme scaffold engineering and characterization of protein modification activity <i>Yane-Shih Wang</i>

Time	Title
<b>SPECIAL SESSION</b> <b>SG: Sustainable Chemistry for Agricultural Residue Valorization</b>	
<b>Chair:</b> Kuntawit Witthayolankowit <b>Co-chair:</b> Sunisa Akkarasamiyo	
13.30-14.00	(SG-K-005) Lignin valorization: From academic findings to commercializations <i>Joseph S.M. Samec</i>
14.00-14.20	(SG-I-004) Biomass-to-coating innovation: Eco-friendly solutions from palm residue valorization <i>Duangamol N. Tungasmita</i>
14.20-14.40	(SG-I-002) Potential sources for valorization of agricultural wastes from economic crops in the lower central region of Thailand <i>Punlop Kuntiyong</i>
14.40-15.00	(SG-I-003) Lignin as a biofunctional material: Multidisciplinary approaches in lignin valorization <i>Pemikar Srifa</i>
15.00-15.20	(SG-I-001) Furfural production from raw biomass using formic acid as a solvent and catalyst: Optimization and extraction methods <i>Kritsana Namhaed</i>
15.20-15.40	(SG-I-006) Net-negative goals and clean energy transition: The role of green hydrogen in CO <sub>2</sub> refineries, waste plastic and biomass valorization <i>Ganapati D. Yadav</i>

# Instruction for Poster Presentation

## Time for poster attachment & location

The poster session will be at Foyer area and the location for the poster attachment will be specified according to the Abstract ID, which can be found in the Program Book. The organizers will provide accessories (like adhesive tape) for setting up the poster, which can be collected at the Poster Registration Desk.

### Poster Sessions (Regular Session and Special Session)

There will be two poster sessions according to the schedule below.

Date	Session	Setting up time	Presentation time	Poster removal time
Monday 23 Jun 2025	I	09.00-10.00	16.30-17.30	18.00 on 24 June 2025
Tuesday 24 Jun 2025	II	09.00-10.00	16.50-18.00	18.00 on 24 June 2025

#### Poster Session I

 Monday, 23<sup>rd</sup> June 2025  16.30-17.30

Submission code	
AC	Analytical Chemistry
MN	Materials Science and Nanotechnology
CE	Chemistry for Energy and Environment
PT	Physical and Theoretical Chemistry
FE	Future in Chemical Education
S5	AI in Drug Discovery Research
IC	Inorganic Chemistry

Please see more details from QR Code or Website  
[www.acc2025thailand.com](http://www.acc2025thailand.com)





#### Poster Session II

 Tuesday, 24<sup>th</sup> June 2025  16.50-18.00

Submission code	
FA	Food, Agriculture, and Cosmetics
NB	Natural Products, Biological Chemistry and Chemical Biology
OM	Organic Synthesis and Medicinal Chemistry
PC	Polymers and Bio-based Materials
S2	Catalytic Systems for Contemporary Challenges
S6	Advances in Nutraceutical Chemistry Shaping the Future of Disease Prevention in Asia
S8	Green Chemistry; Paving the Way to a Sustainable Future
SE	Unlocking the Power of Nature: Cutting-Edge Applications of Natural Products, Biological Chemistry, and Chemical Biology

### Poster Sessions (Side-Event)

 Thursday, 26<sup>th</sup> June 2025  09.00-17.30

The Side-Event presentations will be held in the congress rooms. Please consult the congress schedule to ensure you are aware of the time and location of your session.

Date	Setting up time	Presentation time	Room	Poster removal time
Thursday 26 Jun 2025	09.00-10.00	10.30-12.30	Mulberry, 10 Fl.	16.00 on 26 June 2025
Thursday 26 Jun 2025	09.00-10.00	10.30-12.30	Mayfair Ballroom, 11 Fl.	16.00 on 26 June 2025

Please see more details from QR Code or Website  
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**Program Book**

**20ACC  
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Full Abstract Book