

## Summary of the 20<sup>th</sup> Asian Chemical Congress (ACC2025)

The 20th Asian Chemical Congress (ACC2025) was held from 23–27 June 2025 at The Berkeley Hotel Pratunam, Bangkok, Thailand, under the theme “**Responsible Chemical Science for World Sustainability.**” The congress was hosted by the Chemical Society of Thailand under the Patronage of Her Royal Highness Princess Chulabhorn Krom Phra Srisavangkavadhana, in collaboration with the Federation of Asian Chemical Societies (FACS). On this occasion, the 22<sup>nd</sup> Federation of Asian Chemical Society (FACS) General Assembly was held on Sunday, 22<sup>nd</sup> June 2025. Representatives from 17 Chemical Societies attended the GA, and 18 observers.



### Participation, Abstracts, and Scholarships

ACC2025 attracted nearly 800 registered participants, with approximately 900 attendees in total, including organizers and one-day participants. A total of 556 abstracts were accepted, comprising 170 oral presentations

and 386 poster presentations, with submissions from 41 countries. Significant participation came from China, India, Indonesia, Japan, Korea, Malaysia, Sri Lanka, Taiwan, Turkey, and Thailand.

| Track | Country           | Total | Track       | Country      | Total |
|-------|-------------------|-------|-------------|--------------|-------|
| 1     | Angola            | 1     | 23          | Morocco      | 1     |
| 2     | Australia         | 9     | 24          | Nepal        | 1     |
| 3     | Austria           | 1     | 25          | Netherlands  | 1     |
| 4     | Bangladesh        | 2     | 26          | New Zealand  | 3     |
| 5     | Brazil            | 2     | 27          | Philippines  | 4     |
| 6     | Brunei Darussalam | 2     | 28          | Poland       | 4     |
| 7     | Cambodia          | 1     | 29          | Qatar        | 1     |
| 8     | China             | 14    | 30          | Russia       | 1     |
| 9     | Croatia           | 2     | 31          | Saudi Arabia | 2     |
| 10    | France            | 2     | 32          | Singapore    | 5     |
| 11    | Germany           | 4     | 33          | South Africa | 1     |
| 12    | Hong Kong         | 5     | 34          | Spain        | 2     |
| 13    | India             | 15    | 35          | Sri Lanka    | 15    |
| 14    | Indonesia         | 18    | 36          | Sweden       | 4     |
| 15    | Israel            | 2     | 37          | Taiwan       | 37    |
| 16    | Italy             | 4     | 38          | Thailand     | 511   |
| 17    | Japan             | 70    | 39          | Turkey       | 32    |
| 18    | Kazakhstan        | 1     | 40          | Ukraine      | 1     |
| 19    | Korea             | 36    | 41          | UAE          | 1     |
| 20    | Kuwait            | 1     | 42          | UK           | 3     |
| 21    | Libya             | 1     | 43          | Viet Nam     | 10    |
| 22    | Malaysia          | 7     | Grand Total |              | 840   |

To promote inclusivity and support early-career scientists, 70 young researchers received registration fee waivers, awarded based on abstract quality and demonstrated financial need.

### **Venue and Social Programme**

The congress was held primarily on the 11th floor of the Berkeley Hotel, with plenary sessions in the Mayfair Grand Ballroom. Lunch sessions were held in the 10th-floor ballroom, which accommodates up to 600 participants. A highlight of the social programme was the Congress Dinner, held on Wednesday evening aboard a Chao Phraya River cruise, providing an informal setting for networking and cultural exchange.

### **Opening Ceremony and Key Highlights**

The Opening Ceremony on 23 June 2025 featured:

Professor Ehud Keinan – Welcome remarks

Professor Vudhichai Parasuk, President of the Chemical Society of Thailand – Official address

Professor Onder Metin – Announcement of FACS Awards

Professor Mustafa Culha – Presentation of award plaques and Opening Remarks

Distinguished awardees and senior scientists, including Professor Zhiyong Tang and Professor Ehud Keinan, were scheduled to deliver plenary lectures during the congress.

A special highlight was the recognition of the 20th Anniversary of the Asian Chemical Editorial Society (ACES), founded by Nobel Laureate Professor Ryoji Noyori, underscoring ACES' pivotal role in fostering collaborative scientific publishing across Asia. The Ryoji Noyori ACES Symposium was featured in the special sessions.

## Scientific Program and Youth Engagement

The congress featured a broad range of regular and special scientific sessions, with substantial contributions from chemists across Thailand and the international community.

### 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-2: Prof. Dr. Zhiyong Tang**  
National Center for Nanoscience and Technology, China  
Topic: *Construction and Application of Self-assembled Nanostructures*  
Chair: Chutawat Wattanavithaya, 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 Aanbangkhan, Thailand  
Tuesday, 24<sup>th</sup> June 2025  
16.00-16.50  
Mayfair Ballroom, 11<sup>th</sup> floor



**PL-6: Prof. Dr. Pimchai Chaiyen**  
VISTEC, Thailand  
Topic: *Enzyme Catalysis for Green Synthesis*  
Chair: Purin Jarajamrus, Thailand  
Wednesday, 25<sup>th</sup> June 2025  
16.00-16.50  
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 Vilaiwan, Thailand  
Tuesday, 24<sup>th</sup> June 2025  
09.00-09.50  
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 Vilaiwan, Thailand  
Tuesday, 24<sup>th</sup> June 2025  
09.00-09.50  
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 Kitlavan, Thailand  
Wednesday, 25<sup>th</sup> June 2025  
09.00-09.50  
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

### 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 Biotech: 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. Intipon 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

**20<sup>th</sup> ACC YOUNG CAREER DEVELOPMENT UNDER FACS-ACS COLLABORATION**  
**ASIA CHEM 2025**  
 20<sup>th</sup> Asian Chemical Congress  
 Bangkok, Thailand  
 Monday June 23, 2025, 13.30-15.30  
 Room Jubilee Ballroom B.

This inspiring session aims to explore how chemical professionals can advance their careers while making a meaningful impact on global sustainability. Eminent representatives from FACS and ACS International Chapters will deliver powerful messages to guide and motivate the next generation of chemists.

**Prof. Dr. Mary Gerson**  
 The University of Queensland  
 FACS Division for Contribution to Chemistry in Asia-Pacific Region 2025  
 IUPAC President-Elect

**Prof. Dr. Vamseswar Senghineni Rao**  
 University of Malaya  
 Advisor, ACS International Malaysia Chapter

**Prof. Dr. Shweta Majumdar Smith**  
 Alakshya University  
 Chair, ACS International Thailand Chapter

**Prof. Dr. Tadahito Saito**  
 Past President of the Indonesian Chemical Society  
 EURAXESS Worldwide Representative for ASEAN

**Panel discussion**  
 Exchange ideas with Panelists and suggestion for future professional career development and lifelong learning

**Moderator**  
**Dr. Manisha Srivastava Talasila**  
 Chemical Society of Thailand

**Co-chair**  
**Dr. Bipul Meheron**  
 Alakshya University  
 Thailand Younger Chemist Network

**Adding Value in Asia Chemistry:** reflections on fifty years of research, teaching and mentorship

**Cross Cultural Perspectives on Becoming an Outstanding Scientist**

**Your Career Compass: Guidelines for Success and Pitfalls to Avoid**

**Horizon Europe Strategic Plan 2025-2027: Unlocking Opportunities for Collaboration in Research Funding**

**20<sup>th</sup> ACC Ryoji Noyori ACES Award Symposium**  
**ASIA CHEM 2025**  
 20<sup>th</sup> Asian Chemical Congress  
 Bangkok, Thailand  
 Tuesday 24<sup>th</sup> June 2025, 10.30-15.30 hrs.  
 Venue: Mayfair Ballroom C.

**ACES Awardee**

**Prof. Dr. Maiko Sodeoka**  
 RIKEN Center for Sustainable Resource Science, Japan  
*Transition metal catalyzed chemistry: past, present, and future*

**Prof. Dr. Varinder Aggarwal**  
 School of Chemistry, University of Bristol, UK  
*Synthesis with Boron at the Helm*

**Prof. Dr. Shu-Li You**  
 Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, China  
*Developing New Synthetic Methodologies of Cationization Reactions*

**Prof. Dr. Pauline Chio**  
 The University of Hong Kong, Hong Kong, P. R. China  
*Pico-Medical Interfacial (PMI) Catecholamines of Epinephrine*

**Prof. Dr. René M. Waymouth**  
 University of California, Berkeley  
*Open metal center - fundamental, applications and translation to drug discovery*

**Assoc. Prof. Dr. Sarah Yoon Lee**  
 Korea Advanced Institute of Science and Technology, Korea  
*Bimetallicity in catalytic asymmetric conjugate additions*

**Asst. Prof. Dr. Yan-Chan Lee**  
 National Cheng Kung University, Taiwan  
*Autonomous chemistry design: from Advanced in synthetic strategies for drug molecules and biocompatibility*

## Scientific Sessions

### Regular Session

- Analytical Chemistry
- Inorganic Chemistry
- Materials Science and Nanotechnology
- Polymers and Bio-based Materials
- Natural Products, Biological Chemistry and Chemical Biology
- Organic Synthesis and Medicinal Chemistry
- Food, Agriculture, and Cosmetics
- Industrial and Engineering Chemistry
- Chemistry for Energy and Environment
- Physical and Theoretical Chemistry
- Future in Chemical Education

### Special Session

- Thailand-Japan Bilateral Symposium: Advancing Synchrotron Science through Experimental and Computational Chemistry Synergy
- Catalytic Systems for Contemporary Challenges
- Advanced Coordination Materials and Catalysis for Environment
- Understanding and Development to Address the PFAS Problems in Thailand for Sustainable Environment
- AI in Drug Discovery Research
- Advances in Nutraceutical Chemistry Shaping the Future of Disease Prevention in Asia
- Future Technologies in X-Ray Crystallography Techniques
- Green Chemistry; Paving the Way to a Sustainable Future
- Ryoji Noyori ACES Awards Symposium
- Young Career Development under FACS-ACS Collaboration
- TU-Frontier Lab-JEOL joint session Contaminants of Emerging Concern: PFAS & Microplastics
- Sustainable chemistry Focusing on Clean energy Good Health and Well-Being (Thailand-Taiwan)
- IMS-CU bilateral symposium for driving forward frontier research
- Unlocking the Power of Nature: Cutting-Edge Applications of Natural Products, Biological Chemistry, and Chemical Biology
- Sustainable Chemistry for Agricultural Residue Valorization

In alignment with its sustainability and capacity-building goals, ACC2025 placed significant emphasis on science outreach and youth engagement, including:

- Science Project Showcases for students**
- Future Chemistry Research presentations for high-school students**

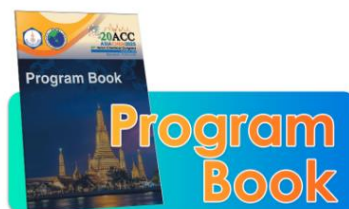
These activities reflected the congress's commitment to nurturing the next generation of chemists.

## Closing Ceremony and Future Outlook

During the Closing Ceremony, Professor Tirayut Vilaivan, Chair of the Scientific Committee, announced the 34 Awards, including Oral and Poster Awards, followed by a Congress Summary delivered by Professor Supakorn Boonyuen, Secretary General-Elect of FACS.

The ceremony then proceeded with the announcement of the 21st Asian Chemical Congress, to be held in Kuala Lumpur, Malaysia, in 2027, by Professor Juan Joon Ching, President-Elect of FACS and the Institute of Chemistry Malaysia. The event culminated in the formal handover of the FACS flag from Thailand to Malaysia, symbolizing the transition of ACC responsibilities.

All official congress materials—including the Programme Book, Abstract Book, Proceedings, and Photo Gallery—are available on the ACC2025 website (<https://acc2025thailand.com/>) and will subsequently be uploaded to the Chemical Society of Thailand website. (<https://chemsocthai.org/>)

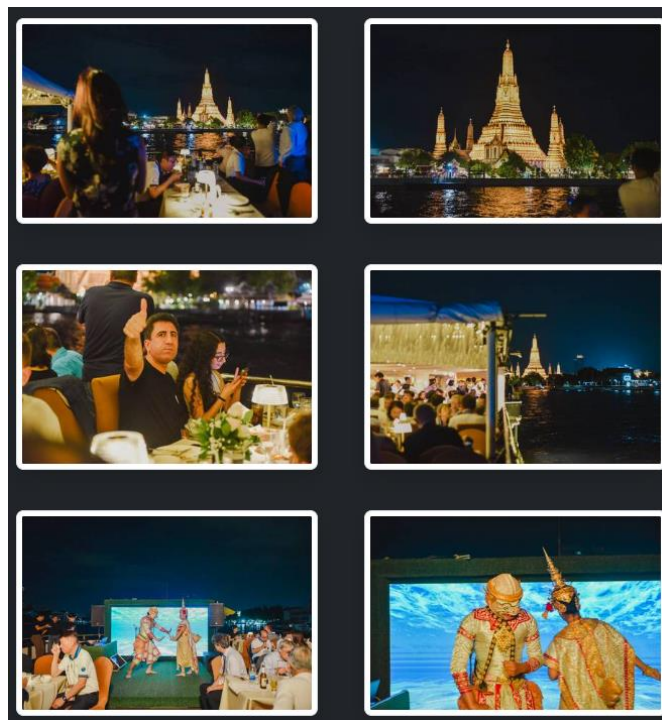




#### CONGRESS DINNER

Wednesday 25 June 2025 / 19.00-21.00 hr.

Chaophraya River Cruise, Asiatique The Riverfront, Bangkok



#### Supported by



Under the Statutes of FACS, the 20ACC of the Chemical Society of Thailand has transferred 5% of the registration fee to the FACS account in Malaysia, amounting to approximately 236,337.52 Baht (7,347.31 USD) since September 23, 2025.