



Pacifichem 2025

The International Chemical Congress
of Pacific Basin Societies 2025
HONOLULU, HAWAII
DECEMBER 15 - 20

Call for Symposia

The 2025 International Chemical Congress of Pacific Basin Societies, known as Pacifichem 2025, is issuing a call for symposia. The Congress will be held December 15–20, 2025, in Honolulu, Hawaii, USA. Proposals should be submitted through the Pacifichem 2025 online symposium system, which can be found on the Congress Website pacifichem.org.

Pacifichem is sponsored by the Canadian Society for Chemistry, the American Chemical Society, the Chemical Society of Japan, the Chinese Chemical Society, the Korean Chemical Society, the New Zealand Institute of Chemistry, and the Royal Australian Chemical Institute. Pacifichem 2025 will be the ninth in the series of successful co-sponsored scientific conferences of Pacific Basin Chemical Societies. Founded in 1984, these conferences have been held in Honolulu, Hawaii about every five years.

The Canadian Society for Chemistry will serve as the host society of the 2025 Congress. Prof. Laurel Schafer, a professor in the chemistry department at the University of British Columbia, is the Congress chair. Prof. Tom Baker, a professor of chemistry and biomolecular sciences at the University of Ottawa is the scientific program committee chair.

The Congress theme is “Building Communities to Address Global Challenges.” The technical program will be organized into the following subject areas:

- Analytical
- Inorganic
- Organic
- Physical
- Computational & Theoretical
- Macromolecular
- Biological
- Materials
- Educate, Communicate and Translate
- Chemistry for Life Science and Health Care
- Chemistry and Engineering for Sustainability

Symposium proposal round two submissions will be open February 7 through April 10, 2024. The scientific program will fill up quickly, so proposals should be submitted as early as possible to ensure a place in the program. Please review [round one accepted symposia](#) to minimize overlap with topics already well covered by other symposia.





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The Pacifichem organizing committee has identified these topics for potential round two submissions:

Analytical

- Micro/nanofluidics
- Mass spectrometry
- Vibrational spectroscopy
- NMR
- LIBS
- Chemometrics
- Analytical application of synchrotron radiation
- Analytical X-ray spectroscopy
- Proteomics
- Metabolomics
- Lipidomics
- Optical imaging
- Symposia devoted to specific analytes / classes of analytes, including but not limited to:
 - Techniques for analysis of toxins, proteins, microplastics, trace elements
 - Biomarkers for diagnostics

Biological

- Biocatalysis
- Nucleic acids
- Extracellular vesicle
- Bioorganic reaction mechanisms
- Genetic code expansion and reprogramming
- Electron transfer in biological systems
- Biophysics of lipids and membranes

Chemistry and Engineering for Sustainability

- Nitrogen cycle, including NO_x reduction catalysis
- Natural products, uses of biomass
- Solar energy conversions, solar fuels
- Materials from natural sources such as lignin or nano-crystal cellulose
- Life cycle analysis
- Bioplastics





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Chemistry for Life Science and Health Care

- *in vivo* click chemistry
- Theranostics
- Chemistry for vaccine design and development
- Drug repurposing for pandemics or neglected tropical diseases
- Tissue regeneration
- Diagnostics: small molecule
- Food chemistry
- Medicinal chemistry
- AI and machine learning for drug discovery

Computational and Theoretical

- Computational modeling design of 2D materials., porous materials, catalysts, biomaterials etc. specifically AI and ML aspects
- Autonomous chemistry
- Generative AI
- Large language models in chemistry
- Computational drug repurposing

Educate, Communicate, Translate

- Indigenous engagement
- K-12
- Outreach
- Scientific journalism
- Systems thinking
- AI and large language models in chemical education - uses, risks and benefits

Inorganic

- Molecular assembly
- Polymer catalysis
- Solid-state electrolytes, li-ion
- Luminescence
- Magnetic
- Supramolecular chemistry with inorganic flavor
- Organic-inorganic hybrid
- Qubits
- Ammonia for energy applications
- Solid electrolytes for battery applications
- Main group elements mimicking transition metals
- Synthetic and Structural Advances in Solid State Chemistry





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Macromolecular

- Fundamental polymer science from chemistry to physics
- Experimental rheology
- More functional materials for energy & sustainability
- New methods/synthesis for energy & sustainability

Materials

- Magnetic materials
- Next generation biomaterials

Organic

- P-block chemistry in organic chemistry
- Heterocycles
- C–H functionalization
- “Other” fields of catalysis, such as main group (e.g., frustrated Lewis pair)
- Catalysis in carbohydrate chemistry
- Supramolecular; non-covalent assembly
- Medicinal chemistry (“discovery”, rather than “process”, aspect)
- Electrocatalysis
- Ring opening/closing
- Aromaticity
- Physical chemistry/excited state chemistry
- Total synthesis
- Catalysis in total synthesis
- Mechanistic investigations of organic reactions
- Non-traditional bonding for reaction control
- Structural characterization of complex molecules/assemblies
- Natural products isolation
- Organic chemistry/synthesis on surfaces
- Organic chemistry in confined spaces
- Synthetic biology for small molecules

Physical

- Application of Materials chemistry
- Excitons
- Nanodots
- Catalysis topics
- Low-dimensional nanomaterials
- Thermodynamics
- Physical: Interfaces
- Plasmon Spectroscopy
- Surface spectroscopy
- Upconversion / Fission

