

The 4th Japanese-Sino Symposium on Catalysis for Precision Synthesis
July 7–8, 2025, Sapporo, Japan

4th Japanese-Sino Symposium on Catalysis for Precision Organic Synthesis

Akira Suzuki Hall, Hokkaido University, Sapporo

<**July 6, 2025**> Meet at Aspen Sapporo Hotel Lobby at 19:15

19:30-21:00 Welcome reception

<**July 7, 2025**> Meet at Hotel Lobby at 9:00

9:30-9:45 Opening Remarks: **Prof. Shuli You** and **Prof. Yoshiaki Nakao**

<Chair: Prof. Yoshiaki Nakao>

9:45-10:15 **Prof. Tsuyoshi Mita**

Utilization of CO₂, Ethylene, and Strained Rings for Constructing Valuable Molecular Scaffolds

10:15-10:45 **Prof. Dawen Niu**

Liberate Glycosylation from Protecting Groups

Short Break (15 min)

<Chair: Prof. Hang Shi>

11:00-11:30 **Prof. Kohei Takahashi**

Nickel-Catalyzed Degradation of Epoxy Resins via Remote Concerted Oxidative Addition as a Key Step

11:30-12:00 **Prof. Hongli Bao**

Alkyl Peroxides and Asymmetric Radical Reactions

Lunch

<Chair: Prof. Koji Kubota>

13:15-13:45 **Prof. Yumiko Nakajima**

Long-range Metal Ligand Cooperation of 3d Metal Complexes Bearing a Phenanthroline-Based PNNP Ligand

13:45-14:15 **Prof. Liu Leo Liu**

Isolable Stannyne and Carbenes with an Inverted Electronic Configuration

<Chair: Prof. Kohsuke Ohmatsu>

14:15-14:45 **Prof. Dennis Chung-Yang Huang**

Photocatalytic C–F Functionalization: Mechanism and Methodology

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14:45-15:15 **Prof. Junnian Wei**

From N₂ Gas to N-Containing Organic Compounds: Beyond Ammonia

Coffee Break (30 min)

<Chair: Prof. Junichiro Yamaguchi>

15:45-16:15 **Prof. Hiroki Miura**

Transformation of Unactivated C(sp³)–O Bonds by Gold-Metal Oxide Cooperative Catalysis

16:15-16:45 **Prof. Chao Zheng**

Mechanism-based Regulation of Asymmetric Tsuji–Trost Reactions

<Chair: Prof. Lijia Wang>

16:45-17:15 **Prof. Yohei Shimizu**

Visible Light Driven Boron Catalysis for Direct Transformation of Carboxylic Acids and Their Analogues

17:15-17:45 **Prof. Xinjun Luan**

Trifunctionalization Catalysis Enables Total Syntheses of Dalesconols A & B

Speakers' Dinner 19:00-21:00

<**July 8, 2025**> Meet at Hotel Lobby at 9:00

<Chair: Prof. Dennis Chung-Yang Huang>

9:30-10:00 **Prof. Shuli You**

Energy Transfer Photocatalytic Dearomatization Reactions

10:00-10:30 **Prof. Yoshiaki Nakao**

Catalytic Denitrative Transformations

Short Break (20 min)

<Chair: Prof. Yifeng Wang>

10:50-11:20 **Prof. Ji-Bao Xia**

Reductive Coupling of Triple and Double Bonds via Photoredox Cobalt Dual Catalysis

11:20-11:50 **Prof. Kazuhiro Morisaki**

Reflexive Chirality Transfer (RCT): Asymmetric 1,3-Dipolar Cycloaddition of α -Amino Acid Schiff Bases with Non-Chiral Copper Catalysts

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Lunch

<Chair: Prof. Hongli Bao>

13:15-13:45 **Prof. Hang Shi**

Rh-Catalyzed Benzylic C–H Functionalization via Transient Arene π -Complexes

13:45-14:15 **Prof. Koji Kubota**

Harnessing Mechanoradicals for Organic Synthesis

<Chair: Prof. Yohei Shimizu>

14:15-14:45 **Prof. Yifeng Wang**

Boryl Radicals Enabled Selective Activation of Carbon-Heteroatom Bonds

14:45-15:15 **Prof. Kohsuke Ohmatsu**

Photocatalytic Reactivity of Zwitterions

Coffee Break (30 min)

<Chair: Prof. Xinjun Luan>

15:45-16:15 **Prof. Lijia Wang**

Synthesis of Monoterpene Indole Alkaloids Based on a Strained Ring Strategy

16:15-16:45 **Prof. Junichiro Yamaguchi**

Exploring Ring Transformation: Opening, Formation, and Swapping of Cyclic Structures

<Chair: Prof. Tsuyoshi Mita>

16:45-17:15 **Prof. Xiao-Chen Wang**

Borane Catalysis

17:15-17:45 **Prof. Shigeki Matsunaga**

Metal/Photoredox Dual Catalysis for Per-deuteration of Alkenes

Closing Remarks: **Prof. Shigeki Matsunaga** and **Prof. Xinjun Luan**

Farewell Dinner 19:00-21:00