

ICAT International Symposium on Catalysis 2023:

Novel theoretical and experimental approaches for designing homogeneous catalysis

Venue: Conference Room on the 5th floor of the ICAT, Hokkaido University

Date: July 18th 2:00 p.m. - July 19th 12:00 p.m. (JST)

<https://sites.google.com/view/icat-international-symposium-o/home>

Registration: Free <https://forms.gle/aBEqcAmtvcCbRKXm8>

Registration deadline

Poster presentation: July 3rd, 2023 No poster presentation: July 7th, 2023



The objective of this symposium is to design novel catalysts and to understand their catalysis. Eight invited lectures will be given and mainly about original experimental and theoretical studies on homogeneous catalysts. We anticipate these lectures will have a strong impact on a wide range of research fields of catalysis. Therefore, a poster session will be conducted to encourage discussion among different research fields of experimental and theoretical studies on homogeneous and heterogeneous catalysts.

Thank you very much for your excellent contributions!

Invited speakers



Shigeyoshi Sakaki
Professor
Kyoto University



Ying Yeung Yeung
Professor
The Chinese University of
Hong Kong



Marcus Lundberg
Associate Professor
Uppsala University



Masahiro Yamanaka
Professor
Rikkyo University



Takuya Hashimoto
Chief Scientist
RIKEN



Masahiro Higashi
Associate Professor
Kyoto University



Yusuke Masuda
Assistant Professor
Hokkaido University



Wataru Matsuoka
Assistant Professor
Hokkaido University

A poster session will be conducted from 17:00 to 18:20 on July 18th.

If you give a poster presentation, please fill the title and presenters in the registration form.

The standard poster size is A0, and the width and height should not exceed 900 mm and 1200 mm, respectively.



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Program

【July 18th, 2023】

- 14:00-14:05 Opening remark by Ken-ichi Shimizu (Director, ICAT)
- 14:10-14:50 Masahiro Yamanaka (Professor, Rikkyo University)
"Interplay between computation and experiment: design and understanding of conformationally-flexible asymmetric catalysts"
- 14:50-15:00 Break
- 15:00-15:40 Marcus Lundberg (Associate Professor, Uppsala University)
"Fingerprinting electronic structure of reaction intermediates through X-ray spectroscopy simulations"
- 15:40-16:00 Yusuke Masuda (Assistant Professor, Hokkaido University)
"Photocatalytic transformation of organophosphorus compounds through distonic radical cation intermediates"
- 16:00-16:10 Break
- 16:10-16:50 Shigeyoshi Sakaki (Professor, Kyoto University)
"Catalysis of transition metal complexes and related compounds: theoretical approach to fundamental understanding and prediction"
- 17:00-18:20 Poster presentation

【July 19th, 2023】

- 09:00-09:40 Takuya Hashimoto (Chief Scientist, RIKEN)
"Catalytic C-N bond formation enabled by a fluorosulfonyl group"
- 09:40-09:50 Break
- 09:50-10:30 Masahiro Higashi (Associate Professor, Kyoto University)
"Theoretical analysis of hybrid catalysis"
- 10:30-10:50 Wataru Matsuoka (Assistant Professor, Hokkaido University)
"Virtual ligand-assisted screening toward computational design of transition metal catalysts"
- 10:50-11:00 Break
- 11:00-11:40 Ying Yeung Yeung (Professor, The Chinese University of Hong Kong)
"Catalytic asymmetric halogenations and their synthetic applications"
- 11:40-11:50 Closing remark by Jun-ya Hasegawa (Professor, ICAT)