

北海道大学触媒科学研究所・情報発信型シンポジウム

日時:2019年9月10日(火)–11日(水)

場所:スイス連邦工科大学(ETH) Hönggerberg Campus (Building HCI, Room J7), Zurich, Switzerland

住所:Vladimir-Prelog-Weg 1–5/10, 8093 Zürich (<https://ethz.ch/en/campus/access/hoenggerberg.html>)

主催:北海道大学触媒科学研究所 協賛:触媒学会

参加費:無料



ETH–ICAT joint symposium on catalysis, Programme

| | Timing | Speaker | Title |
|--------------------------------|--------|---------|-------|
| Tuesday 10 th Sept. | | | |

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| Welcome Coffee | 8:30-8:50 | | |
| Welcome & opening | 8:50-9:00 | C. Copéret and K. Shimizu | |
| 1 | 9:00-9:25 | Jeroen van Bokhoven (ETHZ/PSI) | Methane to methanol over Cu/zeolites; is there a path from scientific curiosity to industrial application? |
| 2 | 9:25-9:50 | Toshiaki Taniike (JAIST) | High-throughput experimentation and application of catalyst informatics on oxidative coupling of methane |
| 3 | 9:50-10:15 | Bill Morandi (ETHZ) | Design and applications of new single bond metathesis reactions |
| coffee | 10:15-10:35 | | |
| 4 | 10:35-11:00 | Yasushi Sekine (Waseda Univ) | Catalytic reaction at low temperature by surface protonics |
| 5 | 11:00-11:25 | Christoph Muller (ETHZ) | Structure-performance studies on materials for CO ₂ valorisation |
| 6 | 11:25-11:50 | Hirokazu Kobayashi (Hokkaido Univ) | Catalytic conversion of chitin to organonitrogen chemicals |
| 7 | 11:50-12:15 | Gina Noh (ETHZ) | CO ₂ Hydrogenation to CH ₃ OH on Cu Nanoparticles: Molecular Understanding of Promotional Effects Using Surface Organometallic Chemistry |
| Lunch | 12:15-13:00 | | |
| 8 | 13:00-13:25 | Peter Chen (ETHZ) | De novo design of catalytic cycles: The case of cyclopropanation. |
| 9 | 13:25-13:50 | Toshiyuki Yokoi (Tokyo Institute of Technology) | Development of Zeolite Catalysts for Selective Production of Light Olefins |
| 10 | 13:50-14:15 | Atsushi Urakawa (Delft Univ) | CO ₂ hydrogenation to methyl formate as a potential chemical energy carrier |
| 11 | 14:15-14:40 | Miho Yamauchi (Kyusyu Univ) | Inorganic Nanocatalysts for Efficient Electrocatalytic Hydrogenation |
| 12 | 14:40-15:05 | Davide Ferri (PSI) | Catalysis and spectroscopy under unsteady-state conditions |
| coffee | 15:05-15:20 | | |
| 13 | 15:20-15:45 | Takahiro Kondo (Univ of Tsukuba) | New two-dimensional material: Borophane, synthesis, characterization, and application |
| 14 | 15:45-16:10 | Clemence Corminboeuf (EPFL) | Blending Old Concepts with Modern Computational Tools to Discover Homogeneous Catalysts |
| ETH Lab tour | 16:10-17:30 | | |
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| Poster flash presentation | 17:30-18:30 | | |
| Poster session | 18:30-21:00 | Poster and Aperero Riche Mixer | |
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| Wednesday 11th Sept. | | | |
| 15 | 8:45-9:10 | Shinya Furukawa (Hokkaido Univ) | Novel Concept for Catalyst Design based on Alloy Materials |
| 16 | 9:10-9:35 | Erick Carreira (ETHZ) | Recent Advances in Iridium Catalysis |
| 17 | 9:35-10:00 | Satoshi Ishikawa (Kanagwa Univ) | Selective oxidation of alkane and unsaturated aldehyde over crystalline Mo ₃ VO _x catalyst |
| Coffee | 10:00-10:20 | | |
| 18 | 10:20-10:45 | Victor Mougel (ETHZ) | Bio-inspired Strategies for Overall CO ₂ Reduction |
| 19 | 10:45-11:10 | Xiongjie Jin (The Univ of Tokyo) | Metal Nanoparticle-Support Cooperative Catalysis for Efficient Dehydrogenative Aromatization Reactions |
| 20 | 11:10-11:35 | Raffaella Buonsanti (EPFL) | Colloidal chemistry for controlled and tunable CO ₂ reduction catalysts |
| 21 | 11:35-12:00 | Takashi Toyao (Hokkaido Univ) | Selective hydrogenation of carboxylic acid derivatives and CO ₂ over supported metal catalysts |
| Closing remarks | 12:00-12:05 | Prof. Kenichi Shimizu and Prof. C. Copéret | |
| Speakers' lunch | 12:15-13:30 | | Bella Vista |
| Discussion* | 13:30-17:0 | | *Location H213 |