

The 3rd Kyoto Advanced Porous Science (KAPS) Symposium

–Unveiling dynamic phenomena–

June/2-3/2025

@iCeMS Main Building Seminar Room, Kyoto University

Program

DAY 1 (June/2nd Monday)

9:55-10:00: Opening Remarks, Satoshi Horike (Kyoto University, Japan)

Chairpersons: Hiroyasu Tabe (Kyoto University, Japan)

10:00-10:30: Watcharaphol Paritmongkol (VISTEC, Thailand)

Tailoring Crystallization in Metal Organochalcogenide Semiconductors: From Large Structures to Nanocrystals

10:30-10:50: Biplab Manna (NIMS, Japan)

Chemistry within nano-space of Metal-organic Frameworks

10:50-11:10: Cecile Grimaud (IRCELYON, France)

Cation-exchanged LTA zeolite for the adsorption and sequestration of gases

11:10-11:30: Ayana Miyata (Kyoto University, Japan)

Flexible Porous Supra-Supramolecular Polymers Assembled from Metal-Organic Octahedra

11:30-13:00: Lunch

Chairpersons: Hoi Ri Moon (Ewha Woman University, South Korea)

13:00-13:30: Bernd Schmidt (University of Dusseldorf, Germany)

Fluorinated Porous Organic Cages and Macrocycles as Organic Materials

13:30-13:50: Alba Cortés (ICN2, Spain)

Isorecticular Synthesis of Mesoporous Metal-Organic Polyhedra

13:50-14:10: Kyriaki Koupepidou (Kyoto University, Japan)

Engineering Flexibility in Crystalline Materials

14:10-14:40: Coffee Break

Chairpersons: Francesco Carrao (Graz University of Technology)

14:40-15:10: Shinichiro Kawano (Saitama University, Japan)

Exploring Nanoporous Soft Materials Constructed from Shape-Persistent Macrocycles

15:10-15:40: Krishna K. Damodaran (University of Iceland, Iceland)

Functional Properties of Porous Coordination Polymers based on Multifunctional Ligands

15:40-16:10: Nozomi Mihara (University of Tsukuba, Japan)

Cage molecules with metal ion-binding sites exhibiting protein-like properties

16:10-16:40: Christian Doonan (University of Adelaide, Australia)

Accelerating three phase catalysis with MOFs

16:40-17:00: Mixer / Informal Discussion (20 min)

DAY 2 (June/3rd Tuesday)

Chairpersons: Hirotoishi Sakamoto (Kyoto University, Japan)

10:00-10:30: Kyohei Takae (Tottori University, Japan)

Impact of elastic heterogeneity on adsorption pattern formation in a soft porous crystal

10:30-11:00: Homare Arima (Kyoto University, Japan)

Experimentally Capturing Guest-Induced Structural Transition at the Single MOF Particle Level Using Atomic Force Microscopy

11:00-11:30: Masataka Ohtani (Kochi Institute of Technology, Japan)

Mechanistic Analysis of the Gate-Opening Adsorption Process Using Differential Scanning Calorimetry

11:00-11:30: Paolo Falcaro (Graz University of Technology, Austria)

ZIF Biocomposites and the Synthesis–Property Relationship

12:00–12:05: Closing Remarks Shuhei Furukawa (Kyoto University, Japan)