

DAY 1

Thursday, October 2

12:15 – 13:00 Registration

OPENING

13:00 – 13:10 **Welcome and Opening Remarks - Motonari Uesugi**, iCeMS Director, Kyoto University

SESSION 1

CHAIR Daishi Fujita & Sooyeon Kim

13:10 – 13:40 **Carl Brozek**, Department of Chemistry and Biochemistry, University of Oregon
Surface Chemistry of Porous Nanocrystals

13:40 – 14:10 **Yumi Yakiyama**, Graduate School of Engineering, the University of Osaka
From Flexibility to Function: Structures and Properties of Molecular Crystals

14:10 – 14:40 **Masahiko Yoshimura**, iCeMS, Kyoto University
Material Approach to Understand and Recreate Cellular Nanoscale Micro-Environments

14:40 – 15:10 **Masateru Ito**, iCeMS, Kyoto University
Crack Control in Polymer Thin Films

15:10 – 15:40 **Yasuko Osakada**, SANKEN, the University of Osaka
Development of Photo-Functional Nanomaterials with New Properties and Their Application to Bioscience

COFFEE BREAK - 20 min

SESSION 2

CHAIR Ganesh Pandian Namasivayam & Tomoko Inose

16:00 – 16:30 **Shunsuke F. Shimobayashi**, CiRA, Kyoto University
Lighting Up the Nanoscale Architecture within Intracellular Condensates

16:30 – 17:00 **Yusuke Himeoka**, Universal Biology Institute, the University of Tokyo
*Towards a Theory of Transitions between Life and Non-Life:
Cell Death and the Hardness of Assembling Complex Chemical Reaction Systems*

17:00 – 17:30 **Mao Hori**, Institute of Integrated Research, Institute of Science Tokyo
Self-Assembly Around RNA: From Mechanistic Insights to Applications

17:30 – 18:00 **Kohei Sato**, Graduate School of Science and Technology, Kwansei Gakuin University
Fully Synthetic Membrane Channels and Transporters with Advanced Functions

NETWORKING *speakers and iCeMS PI meeting members only

18:30 – 19:00 Transfer to iCeMS Networking
19:00 – **iCeMS Networking**

DAY 2

Friday, October 3

8:30 – 9:00 Registration

SESSION 3

CHAIR Aiko Fukazawa & Maryam Nurhuda

9:00 – 9:30 **Megumi Mukoyoshi**, Graduate School of Science, Kyoto University
*Development of Novel PGM-*p*-Block Metal Alloy Nanoparticles*

9:30 – 10:00 **Yukari Katsura**, Center for Basic Research on Materials, NIMS
Crystal Structure Simulator: An Interactive Web Tool for Inorganic Crystal Structure Design by Assembling Atomic Delaunay Tetrahedra

10:00 – 10:30 **Takahiro Kosugi**, Institute for Molecular Science, National Institutes of Natural Sciences
Nature-Inspired Computational Design Strategy for Rational Control of Protein Complexes

BREAK – 15 min

SESSION 4

CHAIR Yuichi Taniguchi & Sayuri Motani

10:45 – 11:15 **Tomonori Tamura**, Graduate School of Engineering, Kyoto University
Mapping Neurotransmitter Receptor Interactome in the Live Mouse Brain

11:15 – 11:45 **Takanobu A. Katoh**, Graduate School of Medicine, the University of Tokyo
Exploring Mechanical Signals via Cilia through Developing Advanced Microscopies: From Sensing Extracellular Mechanical Information to Regulation of Biological Functions

11:45 – 12:15 **Misa Arizono**, the Hakubi Center for Advanced Research, Kyoto University
Thinking Outside the Neuron

12:15 – 12:45 **Yumi Konagaya**, Center for Biosystems Dynamics Research, RIKEN
Multiplexed Immunohistochemistry Reveals Dynamic Cell Cycle Regulation Coupled with Intestinal Stem Cell Differentiation

LUNCH BREAK – 60 min

PLENARY SESSION

CHAIR Jun Suzuki

13:45 – 14:30 **James C. Liao**, President, Academia Sinica
A Tale of Two Carbons: Design and Evolutionary of CO₂ and CH₃OH Conversions

CLOSING

14:30 – 14:35 **Closing Remarks - Motonari Uesugi**, iCeMS Director, Kyoto University

14:35 – 14:40 **Group Photo**

iCeMS TOUR – 75 min