

Program of “Symposium on Molecular Science and Synthesis of Functional Molecules for Next Generation”, March 10 and 11, 2014

Venue : Gakushi-Kaikan, Hiroshima University, Higashi-Hiroshima Campus

March 10 (Mon.)

8:45-8:55 Prof. Takayuki Ebata, Hiroshima University

Opening remark

8:55-9:40 Prof. Thomas R. Rizzo , École Polytechnique Fédérale de Lausanne

Plenary lecture (Morino Lecture)

“New Dimensions in the Spectroscopy of Biomolecular Ions”

9:40-10:10 Prof. Yoshiya Inokuchi, Hiroshima University

“Cold Ion Spectroscopy of Host-Guest Complexes in the Gas Phase”

10:10-10:40 Dr. Shun-ichi Ishiuchi, Tokyo Institute of Technology

“Gas-phase Spectroscopy of Small Peptides - Conformation vs Excited State dynamics”

10:40-10:50 Coffee break

10:50-11:20 Dr. Ryoji Kusaka, Hiroshima University

“Single-conformation Spectroscopy of Synthetic Peptide Foldamers”

11:20-11:50 Prof. Asuka Fujii, Tohoku University

“Infrared Spectroscopy of Methanol: A Cluster Study on Hydrogen Bond Structures”

11:50-12:20 Dr. Shoichi Yamaguchi, Riken

“Heterodyne-Detected SFG Spectroscopy for Liquid Interfaces”

12:20-13:30 Lunch

13:30-14:10 Prof. Lee Cronin, University of Glasgow

“Explaining the Self Assembly of Gigantic Molecular Structures”

14:10-14:30 Prof. Sadafumi Nishihara, Hiroshima University

“Development And Applications Of Ion Motion System In Solid”

14:30-15:00 Prof. Masayuki Takeuchi, National Institute for Materials Science

“Supramolecular Approach toward Functional Organic Materials”

15:00-15:20 Coffee break

15:20-15:50 Prof. Takayoshi Nakamura, Hokkaido University

“Dielectrics based on Supramolecular Rotator Units in Single Crystals”

15:50-16:20 Prof. Takashi Kato, University of Tokyo

“Development of Functional Molecular Assemblies”

16:20-16:50 Prof. Kimihisa Yamamoto, Tokyo Institute of Technology

“Fine-controlled Metal-assembling Using a Dendrimer Reactor”

16:50-17:30 Prof. Pablo Ballester, Institute of Chemical Research of Catalonia (ICIQ)

“Assembly of dimeric capsules with polar interiors”

17:30-18:50 Poster session

19:00-21:00 Banquet (SaijoHakuwa Hotel)

March 11 (Tue.)

9:00-9:30 Prof. Shin Aoki, Tokyo University of Science

“Design and Synthesis of Photochemically and Biologically Active Iridium Complexes for Cell Imaging and Induction of Cell Death”

9:30-10:00 Prof. Hiroki Oshio, University of Tsukuba

“Metal Complexes with Multi-bistability”

10:00-10:30 Prof. Atsushi Nakajima, Keio University

“Electronic properties of size-selected nanoclusters landed onto alkanethiolate self-assembled monolayers”

10:30-10:50 Coffee break

10:50-11:30 Prof. Sotiris S. Xantheas, Pacific Northwest National Laboratories

“Guest / Host Interactions in Clathrate hydrates: from Model Systems to Periodic Lattices”

11:30-11:50 Dr. Dai Akase, Hiroshima University

“Intra- and Intermolecular Interactions of α -, β -, γ -Cyclodextrins: from the Gas Phase to Aqueous Solution”

11:50-13:10 Dr. Tomoki Yoshida, Hiroshima University

“Theoretical Study on Isomers and Conformational Barriers of Gas Phase Nicotine, Normicotine and Their Protonated Forms”

12:10-13:00 Lunch

13:00-13:30 Prof. Junya Hasegawa, Hokkaido University

“Molecular Excited States in Proteins and Solutions: a Theoretical Study on Molecular Interactions”

13:30-14:00 Prof. Yasuteru SHIGETA, Osaka University

“Theoretical Studies on Reaction Mechanism of An Enzyme Cleaving Unnatural Amide Compound ”

14:00-14:30 Prof. Kazuo Kitaura, Kobe University

“Quantum Mechanical Calculation of Proteins Using the Fragment Molecular Orbital Method ”

14:30-14:40 Concluding remark