

Research Institute for Science and Technology (RIST), Organization for Research Advancement,
Tokyo University of Science

2015 Joint International Symposium Hosted by Division of Colloid and
Interface Science and International Division of Interfacial Thermo-Fluid
Dynamics
(DCIS-I²plus Symposium 2015)

September 1, 2015

Morito Memoriam Hall, Forum Room No. 2

Program

10:00 Opening Remark Prof. Takeshi Kawai (DCIS)

Session 1 Presentation by Graduate Students (Chair: Assist. Prof. Kazutoshi Iijima (DCIS))

10:10 Mr. Tatsuya Nishimura (Kawai Lab, M2)

*Flexible and Transparent Free-standing Metal Nanosheets Fabricated by UV Irradiation onto
Langmuir Monolayers of Nanoparticles*

10:20 Ms. Chihiro Uchida (Negishi Lab, M2)

*Toward the Precise Separation of Water-Soluble Metal Clusters by High-Performance Liquid
Chromatography*

10:30 Mr. Tomonori Shibata (Hashizume Lab, M1)

Evaluation of Polysaccharide Composite Films as Drug Carriers

10:40 Mr. Hikaru Okubo (Sasaki Lab, M2)

*Lubrication Mechanism of Alkyl Groups of Zinc Dialkyldithiophosphates (ZDDPs) as a
Lubricant Additive for ta-C DLC Film*

10:50 Mr. Yuki Sakaguchi (Ueno Lab, M1)

Investigation of Surface Tension of Water Including Amphipathic Molecules

11:00 Mr. Shusaku Hayakawa (Kawai Lab, M2)

Fabrication of the Hollow Polystyrene Particles by Ultraviolet Irradiation

11:10 Ms. Makoto Eguro (Negishi Lab, M2)

Study on Doping Effect on Ligand-Exchange Reaction of Thiolate-Protected Gold Clusters

11:20 Mr. Kohei Takada (Hashizume Lab, M1)

Preparation of Organic-Inorganic Hybrid Materials Utilizing Hot Press Techniques

11:30 Mr. Nobuo Kazuno (Tsukahara Lab, M1)

CFD of Micro-droplet Manipulation by Marangoni Convection

11:40 Mr. Makoto Nakagawa (Kawai Lab, M2)

Double-helical Au Nanowires Synthesized Using a Hydrogel Template Composed of Two Organogelators

11:50-13:00 Lunch Break

Session 2 Invited Lectures (Chair: Assoc. Prof. Mineo Hashizume (DCIS))

13:00 Prof. Daniel Citterio (Department of Applied Chemistry, Keio University)

Inkjet Printed Paper-Based Analytical Devices

14:00 Dr. Lok Kumar Shrestha (WPI-MANA, NIMS)

Porous Fullerene Nanomaterials: From Zero to Higher Dimensions

15:00-15:20 Break

Session 3 Reports from Members of DCIS and I²plus (Chair: Assist. Prof. Yoshiro Imura (DCIS))

15:20 Prof. Takeshi Kawai (DCIS; Department of Industrial Chemistry, TUS)

Shape Memory Based on Emulsions Containing Fe₃O₄ Nanoparticles Responsive to Magnetic and Thermal Stimuli

15:40 Assoc. Prof. Yuichi Negishi (DCIS; Department of Applied Chemistry, TUS)

A Critical Size for Emergence of Nonbulk Electronic and Geometric Structure in Dodecanethiolate-Protected Au Cluster

16:00 Assoc. Prof. Mineo Hashizume (DCIS; Department of Industrial Chemistry, TUS)

Continuous Fabrication of Polysaccharide Composite Fibers

16:20 Prof. Kazunaka Endo (DCIS; TUS)

Electronic States of Substances by DFT Calculations

16:40 Assist. Prof. Yuki Kameya (I²plus; Department of Mechanical Engineering, TUS)

Development of Nanoparticle-based Functional Surface for Energy and Environmental Technologies

17:00 Prof. Ichiro Ueno (I²plus; Department of Mechanical Engineering, TUS)

Precursor Film Formation Ahead Macroscopic Contact Line

17:20 Closing Remark Prof. Ichiro Ueno (I²plus)

This symposium is co-hosted by
Division of Colloid and Interface Science, Research Institute for Science and Technology, Organization for Research Advancement, Tokyo University of Science
and
International Division of Interfacial Thermo-Fluid Dynamics, Research Institute for Science and Technology, Organization for Research Advancement, Tokyo University of Science

Contact: M. Hashizume (DCIS; Dept. Ind. Chem.; E-mail mhashizu@ci.kagu.tus.ac.jp)