The 4th International Conference on MEXT Project of Integrated Research on Chemical Synthesis & ICOMC 2014 Pre-symposium in Kyoto "Synthetic Approaches to New Chemical Functions"

Date: July 10 (Thu) – 11 (Fri), 2014 Venue: Uji Obaku Plaza, Uji Campus, Kyoto University Access Information: http://www.uji.kyoto-u.ac.jp/english/access_e.html

Organized by MEXT Project of Integrated Research on Chemical Synthesis Supported by Joint Usage/Research Center of Institute for Chemical Research, Kyoto University

Program

July 10 (Thu)

13:00-13:10	Opening Remarks: Naoki Sato (The Director of ICR, Kyoto University)
13:10-13:50	Werner Paulus (Universite de Montpellier 2, France)
	"Scaling of Structural and Electronic Ordering in Non-stoichiometric Oxides: Where are the Limits?"
13:50-14:20	Stephan Irle (Nagoya University, Japan)
	"Super-reduced Polyoxometalates: Excellent Molecular Cluster Battery Components and Semipermeable Molecular Capacitors"
14:20-14:50	Atsushi Fukuoka (Hokkaido University, Japan)
	"Refrigerator Catalyst: Oxidation of Ethylene by Platinum/Mesoporous Silica Catalysts"
14:50-15:20	Coffee Break
15:20-16:00	Derec Sinclair (University of Sheffield, UK)
	"The Remarkable Influence of Non-stoichiometry
	on the Electrical Properties of the Polar Perovskite $Na_{1/2}Bi_{1/2}TiO_3$ "
16:00-16:20	Katsuhiro Isozaki (Kyoto University, Japan)
	"Enhanced Catalysis of Gold Nanoparticles Surrounded by Alkanethiol Self-Assembled Monolayers"
16:20-16:40	Kenta Motobayashi (Hokkaido University, Japan)
	"Interfacial Structure of Ionic Liquids Near a Gold Electrode and Its Potential Dependence: a Surface-Enhanced Infrared Study"
16:40-17:20	Shinya Koshihara (Tokyo Institute of Technology, Japan)
	"Search for a Hidden Phase in Strongly Correlated Systems Based on Ultrafast Structural Dynamics"
17:30-19:30	Reception

July 11 (Fri)	
9:20-10:00	Holger Braunschweig (Universität Würzburg, Germany)
	"Transfer, Metathesis and Catenation: Reactivity Patterns Emerging from Borylene Complexes"
10:00-10:20	Shohei Saito (Nagoya University, Japan)
	"Rigid-Flexible Hybrid π Materials for Dynamic Functions"
10:20-10:50	Katsuhiko Tomooka (Kyushu University, Japan)
	"Recent Advances in the Chemistry of Dynamic Planar Chiral Molecules"
10:50-11:30	Michael D. Fryzuk (The University of British Columbia, Canada)
	"New Ligand Designs Based on Nitrogen and Phosphorus Donors"
11:30-13:30	Group Picture, Lunch, and Poster Session
13:30-14:10	Takao Ikariya (Tokyo Institute of Technology, Japan)
	"Recent Progress in Bifunctional Molecular Catalysis"
14:10-14:30	Takashi Kamachi (Kyushu University, Japan)
	"Toward Rational Design of Organocataysts: DFT-Based Conformation Analysis"
14:30-15:00	Norihiro Tokitoh (Kyoto University, Japan)
	"Synthesis of a Dialumene-Benzene Adduct and Its Reactivity as a Synthetic Equivalent of Low-valent Aluminum Species"
15:00-15:40	Gerhard Erker (Universität Münster, Germany)
	"Frustrated Lewis Pairs: Some Metal Reminiscent Chemistry of Main Group Element Compounds"
15:40-15:45	Closing Remarks: Fumiyuki Ozawa (The Conference Chair, ICR, Kyoto University)