IRCCS-JST CREST Joint Symposium

"Chemical sciences facing difficult challenges"

[Part I] Jan. 24th-25th, IRCCS The 1st International Symposium [Part II] Jan. 25th-26th, The 2nd Base Metal Catalysis Symposium

Chikushi Hall, Chikushi Campus, Kyushu University, Fukuoka, Japan

January 24th (Wed.)

12:00-13:00	Registration
13:00–13:10	Opening Remarks
	(Chair: Osamu Sato, Kyushu University)
13:10–13:50	[IL-1] Ren-Gen Xiong (Southeast University, P. R. China)
	"Ceramic-like Molecular Ferroelectrics"
13:50–14:10	[YR-1] Tomoyasu Hirai (Kyushu University, Japan)
	"Synthesis and Characterization of Novel Polymer Brush with Well-controlled Stereoregularity"
	(Chair: Tamaki Nakano, Hokkaido University)
14:10-14:30	[YR-2] Soichiro Ogi (Nagoya University, Japan)
	"Seed-initiated Supramolecular Polymerization of π -Conjugated Molecules"
14:30–15:00	[SR-1] Shiroh Futaki (Kyoto University, Japan)
	"Cytosolic Antibody Delivery by Lipid-sensitive Endosomolytic Peptide"
15:00-15:20	Break
	(Chair: Kazunari Yoshizawa, Kyushu University)
15:20-15:50	[SR-2] Kentaro Tanaka (Nagoya University, Japan)
	"Molecular Architectures towards Soft Materials and Switching Molecular Systems"

15:50–16:10	[YR-3] Zhiyi Song (<i>Hokkaido University, Japan</i>) "Lithiation of Palladated Dihydropentacene: New Route for Introduction of
	Substituents from Both of Electrophiles and Nucleophiles to Pentacene"
	(Chair: Shigehiro Yamaguchi, Nagoya University)
16:10–16:30	[YR-4] Takahiro Iwamoto (Kyoto University, Japan)
	"Iron-Catalyzed anti-Selective Carbosilylation of Internal Alkynes"
16:30–17:00	[SR-3] Katsuhiko Tomooka (Kyushu University, Japan)
	"Chemistry of Medium-sized Unsaturated Heterocycles"
17:00–18:30	Poster Session 1 (P-001 ~ P-091)
18:40-20:10	Banquet

January 25th (Thu.)

	(Chair: Yuichi Shimakawa, Kyoto University)
09:20-09:50	[SR-4] Ken-ichi Shimizu (Hokkaido University, Japan)
	"Cooperative Heterogeneous Catalysis for Selective Transformations of Carboxylic
	Acid Derivatives, CO ₂ and Hydrocarbons"
09:50–10:10	Short Talk 1
	[ST-1] Hajime Hojo (Kyushu University, Japan)
	[ST-2] Hiroshi Yoshida (Kumamoto University, Japan)
	(Chair: Yasuhiro Uozumi, Institute for Molecular Science)
10:10-10:50	[IL-2] Audrey Moores (McGill University, Canada)
	"Sustainable Nanoparticles and Surface Plasmon Resonance enhanced
	Hydrogenation Catalysis"
10:50-11:10	Break
	(Chair: Satoshi Hata, Kyushu University)
11:10–11:30	[IL-3] Mitsuhiro Murayama (Virginia Tech, USA)
	"Dynamic Observation on the Propagation of a Nanoscale Crack in an Industrial

	Aluminum Alloy: an Application of in-situ Electron Tomography System to an Engineering Material"
	(Chair: Jun-ichiro Hayashi, Kyushu University)
11:30-12:30	[PL-1] Eiichi Nakamura (The University of Tokyo, Japan)
	"Atomic Resolution Electron Microscopy for Organic Chemists"
12:30-13:30	Lunch Break
	(Chair: Katsuhiko Tomooka, Kyushu University)
13:30-14:10	[IL-4] Jonathan Clayden (University of Bristol, UK)
	"Naturally Inspired Solutions in Synthesis: Reactivity, Relays and Receptors"
	(Chair: Hisashi Shimakoshi, Kyushu University)
14:10-14:50	Short Talk 2
	[ST-3] Yoichi M. A. Yamada (RIKEN, Japan)
	[ST-4] Ryoichi Kuwano (Kyushu University, Japan)
	(Chair: Hiroshi Furuno, Kyushu University)
14:10-14:50	Short Talk 3
	[ST-5] Masaya Sawamura (Hokkaido University, Japan)
	[ST-6] Masanari Kimura (Nagasaki University, Japan)
	(Chair: Mitsuru Shindo, Kyushu University)
14:50-15:30	[IL-5] Takashi Ohshima (Kyushu University, Japan)
	"Direct Catalytic Asymmetric Addition of Various Nucleophiles to <i>N</i> -Unprotected Ketimines"
15:30–15:50	Break
	(Chair: Toru Oishi, Kyushu University)
15:50-16:30	[IL-6] Ning Jiao (Peking University, P. R. China)
	"Base Metal Catalyzed Oxygenation and Nitrogenation Reactions"
	(Chair: Seiji Shirakawa, Nagasaki University)
16:30–17:00	Short Talk 4
	[ST-7] Hikaru Takaya (Kyoto University, Japan)
	[ST-8] Yasuhiro Arikawa (Nagasaki University, Japan)

[ST-9] **Yoshihito Shiota** (*Kyushu University, Japan*)

(Chair: Takashi Ohshima, Kyushu University)

- 17:00–17:40 [IL-7] **Rinaldo Poli** (*CNRS, Laboratoire de Chimie de Coordination, France*) "Copper and Iron-catalyzed Processes Involving Radicals"
- 17:40–19:10 Poster Session 2 (P-070 ~ P-140)

January 26th (Fri.)

	(Chair: Ryoichi Kuwano, Kyushu University)
09:20-10:00	[IL-8] Hairong Guan (University of Cincinnati, USA)
	"Iron- and Cobalt-Catalyzed Hydrogenation of Esters and Nitriles"
	(Chair: Yusuke Sunada, The University of Tokyo)
10:00-10:30	Short Talk 5
	[ST-10] Kouki Matsubara (Fukuoka University, Japan)
	[ST-11] Hisashi Shimakoshi (Kyushu University, Japan)
	[ST-12] Sachie Arae (Kumamoto University, Japan)
10:30–10:50	Break
	(Chair: Takashi Nishikata, Yamaguchi University)
10:50-11:10	Short Talk 6
	[ST-13] Yoshiaki Nakao (Kyoto University, Japan)
	[ST-14] Naohiko Yoshikai (Nanyang Technological University, Singapore)
	(Chair: Hideo Nagashima, Kyushu University)
11:10–12:10	[PL-2] Paul J. Chirik (Princeton University, USA)
	"New Opportunities in Synthesis with Iron and Cobalt Catalysts"
12:10-13:40	Lunch Break & Poster Session 3 (P-070 ~ P-140)
	(Chair: Yoshiaki Nakao, Kyoto University)
13:40-14:20	[IL-9] Karl Kirchner (Vienna University of Technology, Austria)
	"New Chemistry Based on Non-Precious Metal Pincer Complexes"

14:20-15:00	(Chair: Naohiko Yoshikai, Nanyang Technological University) [IL-10] Shaozhong Ge (National University of Singapore, Singapore)
	"Cobalt-Catalyzed Hydrofunctionalization of Unsaturated Hydrocarbonds"
15:00-15:20	Break
15:20–16:00	(Chair: Shigeki Sasaki, Kyushu University)
	[IL-11] Nobuaki Kambe (Osaka University, Japan)"Cross- and Multicomponent-Coupling Reactions Catalyzed by Base Metals"
16:00–16:10	Closing Remarks