The 14th CRC International Symposium on
"Molecular Catalysis of the Next Generation"

Monday, November 24

13:45-14:30 pm Registration and Mixer

14:30-14:40 pm Opening Address Director of CRC, **T. Takahashi**

Chairperson: **M. Ichikawa**

14:40-15:40 pm PL1 Bite Angle Effects in Diphosphine Metal Catalysts: Steric or Electronic?
Piet W.N.M. van Leeuwen
University of Amsterdam

15:40-16:20 pm I1-1 Development of Unimolecular Nano Catalysts Using Dendrimers
Kiyotomi Kaneda
Osaka University

16:20-16:50 pm Coffee Break

Chairperson: **K. Asakura**

16:50-17:30 pm I1-2 Supramolecular Approaches Toward Asymmetric Catalysis
Wenbin Lin
University of North Carolina at Chapel Hill

17:30-18:10 pm I1-3 Porphyrin Supramolecules toward Photosynthesis
－Light Harvest and Charge Separation－
Yoshiaki Kobuke
Nara Inst. Sci Tech

Tuesday, November 25

Chairperson: **T. Inabe**

9:30-10:30 am PL2 Bridges Between Heterogeneous and Homogeneous Catalysis. The Case of Single-Site and Multiple-Site Olefin Polymerization Catalysts
Tobin J. Marks
Northwestern University

Chairperson: **T. Ohta**

10:30-11:10 am I2-1 Development of New Olefin Polymerization Catalysts and Their Applications to Value-Added Polymers
Haruyuki Makio
Mitsui Chemicals, Inc.

11:10-11:50 am I2-2 Unprecedented Tearing of a Cyclopentadienyl Ligand into Two Pieces which were Trapped as a Benzene Derivative and a Pyridine Derivative
Tamotsu Takahashi
Hokkaido University

11:50-13:45 pm Lunch

Chairperson: **M. Osawa**

13:45-14:25 pm I2-3 Highly Efficient Organic Syntheses Using Environmentally Benign Catalysts
Kazuaki Ishihara
Nagoya University

14:25-15:05 pm I2-4 Acid-Catalysis for Environmentally-Benign Processes
Masato Tanaka
Tokyo Institute of Technology

Chairperson: **M. Tokunaga**

15:05-15:45 pm Short Talk

ST-1 Substrate-specific Hydrogenation of Olefins Catalyzed by Dendrimer-encapsulated Pd Nanoparticles
Masahiko Ooe

ST-2 Palladium-catalyzed Air Oxidation of Alcohols. Remarkable Effect of Pyridine Ligands having a Large Substituent at 3-Position
Tetsuo Iwasawa

ST-3 Highly Enantioselective Borohydride Reduction Catalyzed by Optically Active Cobalt Complexes
Yuhki Ohtsuka

ST-4 Hydrolysis of Alkenyl Esters and Ethers Catalyzed by Metal Complexes
Hiroshi Aoyama

ST-5 Rhodium-Catalyzed 1,4-Addition of Arylboronic Acids to α,β-Unsaturated Carbonyl Compounds:Large Accelerating Effects of Bases and Ligands
Ryoh Itooka

ST-6 Palladium-Catalyzed Reactions of Di-Substituted 3-Halopropenamide
Hiroshi Matsumura

ST-7 Palladium-CatalyzedAromatic Ring Extension from *o*-Diiodoarenes
Wenying HUANG

ST-8 SMAP, Silicon-constrained Monodentate Alkylphosphine: Synthesis and Properties of Non-volatile Me_3P-like *P*-Donor Ligand Ph-SMAP
Atsuko Ochida

	ST-9	Capsule-shaped Iridium(I) and Rhodium(I) Complexes with Lower-rim Modified Triphosphinocalix[6]arene Ligand **Yunkui Liu**
	ST-10	Long-range Stric Effect of a Bowl-shaped Nano-sized Phosphine in the Rhodium Catalyzed Hydrosilylation **Osamu Niyomura**
15:45-16:15 pm		Coffee Break
		Chairperson: **W. Ueda**
16:15-16:55 pm	I2-5	Catalytic Asymmetric Hydrogenation of Enamides using 1,4-Bisphosphines as Chiral Ligands: From Homogeneous to Heterogeneous **Sang-gi Lee** Korea Institute of Science and Technology
16:55-17:35 pm	I2-6	Polyhydride Clusters of Transition Metals and Multimetallic Activation **Hiroharu Suzuki** Tokyo Inst. Tech
18:00-20:00 pm		Banquet at Sapporo Aspen Hotel North-8 West-4, Kitaku, Sapporo. Phone: 011-700-2111

Wednesday, November 26

		Chairperson: **N. Miyaura**
9:30-10:30 am	PL3	Ruthenium-Catalyzed Alkylation and Cyclization Reactions **Sang Chul Shim** Kyungpook National University
		Chairperson: **B. Ohtani**
10:30-11:10 am	I3-1	Nickel-Catalyzed Carbostannylations of Carbon-Carbon Unsaturated Bonds **Eiji Shirakawa** Japan Adv Inst Sci Tech
11:10-11:50 am	I3-2	Nickel-Mediated Coupling Reaction of Carbon Dioxide and Multiple Bonds **Miwako Mori** Hokkaido University
11:50-12:00 am	Closing Address	**Y. Tsuji**