## RIKEN International Symposium on Chemistry and Materials Science (November 5-6, Suzuki Umetaro Hall, RIKEN)

## **Program**

## November 5 (Thu)

$9:00 \sim 9:10$ $9:10 \sim 9:20$	Chairperson: Zhaomin Hou (RIKEN) Opening Remarks Welcome Address  Kohei Tamao (RIKEN ASI Director) Ryoji Noyori (RIKEN President)
Session 1	Activation of Small Molecules
9:20 ~ 9:55	Chairperson: Norihiro Tokitoh (Kyoto University) <b>Douglas W. Stephan</b> (University of Toronto) "Frustrated Lewis Pairs: A New
9:55 ~ 10:30	Approach to Reactivity and Catalysis" <b>Tsukasa Matsuo</b> (RIKEN) "B–B Multiple Bond Species Stabilized by Fused-Ring
10:30 ~ 11:05	Bulky Rind Groups" <b>Philip P. Power</b> (University of California, Davis) "Main Group Elements as Transition Metals"
11:05 ~ 11:25	Break (20 min)
Session 2	Biomaterials
11:25 ~ 12:00	Chairperson: Jianbo Wang (Peking University)  Zhihua Gan (Chinese Academy of Sciences) "Controlled Synthesis and
12:00 ~ 12:35	Biofunctions of Biocompatible and Biodegradable Polymers" <b>Hsiao-hua (Bruce) Yu</b> (RIKEN) "Organic Conductive Biomaterials: A New Direction for Functional $\pi$ Materials"
12:35 ~ 13:50	Lunch (Hirosawa Club)
Session 3	Functional Molecules and Macromolecules
13:50 ~ 14:25	Chairperson: Reizo Kato (RIKEN)  Deqing Zhang (Chinese Academy of Sciences) "New Organic Functional  Malandar for Malandar Spritcher Lagic Catagorial Support"
14:25 ~ 15:00	Molecules for Molecular Switches, Logic Gates and Sensors" <b>Takanori Fukushima</b> (RIKEN) "Nanostructured Materials from $\pi$ -Conjugated
15:00 ~ 15:35	Building Blocks" <b>Zichen Li</b> (Peking University) "Macromolecular Engineering of Poly(vinyl alcohol)"
15:35 ~ 15:55	Break (20 min)
Session 4	Materials Science
15:55 ~ 16:30	Chairperson: Kazuyoshi Tanaka (Kyoto University)  Haiqing Guo (Peking University) "Synthesis of Fluorescent/Magnetic Micro  Parallel Hair Organic American Synthesis of Structural Hair"
16:30 ∼ 17:05	Beads by Using Organic-Inorganic Assemblies as Structural Units"  Chuanfeng Chen (Chinese Academy of Sciences) "Novel Triptycene-Derived Hosts: Synthesis and Applications in Synthesis an
17:05 ~ 17:40	Hosts: Synthesis and Applications in Supramolecular Chemistry" <b>Timothy M. Swager</b> (Massachusetts Institute of Technology) "Chemistry and Applications of Carbon Nanotubes"
18:00 ~	Banquet (Hirosawa Club)

## November 6 (Fri)

Session 5	Organic Synthesis Chairmanson: Vasuhiro Hozumi (IMS, PIKEN)
$9:00 \sim 9:35$ $9:35 \sim 10:10$	Chairperson: Yasuhiro Uozumi (IMS, RIKEN)  Jianbo Wang (Peking University) "Pd-Catalyzed Reaction of Diazo Compounds"  Mikiko Sodeoka (RIKEN) "Enantioselective Catalysis Based on Transition Metal Enolate Chemistry"
10:10 ~ 10:45	<b>Zhangjie Shi</b> (Peking University) "Mechanistic Insight toward the Regioselctivity of Direct Functionalization of Indole derivatives"
10:45 ~ 11:05	Break (20 min)
Session 6	Main Group Chemistry Chairperson: Soichiro Kyushin (Gunma University)
11:05 ~ 11:40	<b>Shigehiro Yamaguchi</b> (Nagoya University) "Main Group Chemistry toward New Functional π-Electron Materials"
11:40 ~ 12:15	Guy Bertrand (University of California, Riverside) "Interplay between Radicals, Carbenes, Bent-Allenes and Main Group Chemistry"
12:15 ~ 13:30	Lunch (Hirosawa Club)
Session 7	Multiple Bonds and Organometallics  Chairmana and Takanaki Kanagakina (The University of Takana)
13:30 ~ 14:05	Chairperson: Takayuki Kawashima (The University of Tokyo) <b>Akira Sekiguchi</b> (University of Tsukuba) "A New Type $\pi$ -Bonded Compound: The Chemistry of a Silicon-Silicon Triple Bond"
14:05 ~ 14:40	Gregory H. Robinson (University of Georgia) "Carbene-Stabilization of Highly Reactive Molecules"
14:40 ~ 15:15	<b>Zhaomin Hou</b> (RIKEN) "Half-Sandwich Rare Earth Dialkyl Complexes Leading to Novel Polymerization Catalysts and Hydride Clusters"
15:15 ~ 15:35	Break (20 min)
Session 8	Supramolecular Chemistry and Molecular Materials Chairperson: (Hsiao-hua (Bruce) Yu) (RIKEN)
15:35 ~ 16:10	<b>Reizo Kato</b> (RIKEN) "Advanced Functionality of $\pi$ -Electrons in Molecular Assemblies"
16:10 ~ 16:45	Yuguo Ma (Peking University) "Supramolecular Chemistry Based on Arene-Perfluoroarene Interactions"
16:45 ~ 17:20	<b>Robert West</b> (University of Wisconsin) "Muon Spin Resonance: A New Spectroscopy for π-Conjugated Organometallic Compounds"
17:20	Closing Remarks Zhaomin Hou (RIKEN)