

Third International Collaborative and Cooperative Chemistry Symposium
Oct. 31-Nov. 1, 2012, Hangzhou

SUBJECT:

“Chemistry and the Mission”

FEATURING SPEAKERS FROM...

- **University of Hyderabad (UOHYD)**
- **Indian Institute of Technology-Kanpur (IITK)**
- **Kyoto University (KYOTO-U)**
- **Peking University (PKU)**
- **University of Queensland (UQ)**
- **Seoul National University (SNU)**
- **National University of Singapore (NUS)**
- **Zhejiang University (ZJU)**

Over 40 distinguished speakers

SYMPOSIUM ORGANIZERS

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Wednesday 31 October (Sunday Sunny Resort)

	TianLang Hall	
9:00-9:20	Opening Remark/Conference Photo	Yanguang Wang (ZJU)
	TianLang Hall	FuRong Hall
Session Chairs	B. Moon Kim (SNU)	Kian Ping Loh (NUS)
9:30-9:55	Yixin Lu (NUS) “Amino Acid-based Nucleophilic Phosphine Catalysts”	Ian Gentle (UQ) “Understanding Diffusion in Organic Optoelectronic Devices”
9:55-10:20	Lawrence R Gahan (UQ) “Bioremediation of Organophosphates with Enzymes and Biomimetics”	Kai Wu (PKU) “The Art of Control in Surface Chemistry”
10:20-10:45	Takuya Hashimoto (KYOTO-U) “ α -Diazocarbonyl Compounds in Acid Catalysis”	Feihe Huang (ZJU) “Supramolecular Polymers Based on Host-Guest Molecular Recognition Motifs”
10:45-11:00	Morning Tea	
	TianLang Hall	FuRong Hall
Session Chairs	Hideki Yorimitsu (KYOTO-U)	Kai Wu (PKU)
11:00-11:25	Zhi-Xiang Yu (PKU) “Versatile Vinylcyclopropanes in Synthesizing Ring Compounds”	Jie Fan (ZJU) “Rapid Multidimensional Printing Synthesis and Exploration of Catalysts”
11:25-11:50	Tae-Lim Choi (SNU) “Controlling the Nanostructures of Polymers by Olefin Metathesis Catalysis”	Krishnamurthi Muralidharan (UOHYD) “Applied Chemistry of 13th Group Elements: B, Al and In”
11:50-12:15	Bingfeng Shi (ZJU) “Rh(III)-Catalyzed Oxidative Olefination of Heteroarenes”	Pratik Sen (IITK) “Structure and Properties of Mixed Solvents”

Wednesday 31 October (Continued)

	TianLang Hall	FuRong Hall
Session Chairs	Manas K. Ghorai (IITK)	Ian Gentle (UQ)
14:00-14:25	Craig M. Williams (UQ) “Enantioselective Total Synthesis of the Mexicanolides: Khayasin, Proceranolide, and Mexicanolide”	Jagadees J. Vittal (NUS) “Design and Reactivity of Coordination Polymers”
14:25-14:50	Mariappan Periasamy (UOHYD) “Conceptually New Methods to Access Useful Chiral Organic Skeletons for Applications in Organic Synthesis”	Jianguo Huang (ZJU) “Self-Assembly of Various Guest Substrates in Natural Cellulose Substances to Functional Nanostructured Materials”
14:50-15:15	Ying-Yeung Yeung (NUS) “Efficient Medium Ring Size Bromolactonization Using a Sulfur-based Zwitterionic Organocatalyst”	Xuefeng Guo (PKU) “Interface Engineering of Molecular Electronics: From Concept to Applications”
15:15-15:30	Afternoon Tea	
	TianLang Hall	FuRong Hall
Session Chairs	Craig M. Williams (UQ)	Kalidas Sen (UOHYD)
15:30-15:55	Huaqiang ZENG (NUS) “H-bonded Macrocyclic Aromatic Pentamers in Chemistry, Biology and Mathematics”	Bin Su (ZJU) “ECL Imaging Latent Fingerprints”
15:55-16:20	Perali Ramu Sridhar (UOHYD) “Chemistry of 1,2-Cyclopropanated Sugar Derivatives”	Taek Dong Chung (SNU) “Alternative Pathway to Electrocatalysis in Electrified Mesopores”
16:20-16:45	Ramesh Ramapanicker (IITK) Synthesis of Unnatural Amino Acids and Amino Alcohols from Serine and Aromatic Dithianes	Hailin Peng (PKU) “Functional Two-Dimensional Layered Materials: Controlled Growth and Optoelectronic Properties”
16:45-17:10	Joanne T. Blanchfield (UQ) “Using Rigid Antigen Presenting Scaffolds for Synthetic Vaccine Development”	Xiaogang Liu (NUS) “Upconversion Nanoparticles: New Strategies for Biolabeling and Imaging”

Thursday 1 November (Sunday Sunny Resort)

	TianLang Hall	FuRong Hall
Session Chairs	Zhi-Xiang Yu (PKU)	Jagadees J. Vittal (NUS)
8:30-8:55	Takuya Kurahashi (KYOTO-U) “Nickel-Catalyzed Cycloaddition via Elimination of Small Molecule”	Kalidas Sen (UOHYD) “Some Novel Results of Confined Electronic Systems”
8:55-9:20	Maddali L. N. Rao (IITK) “New Generation Cross-coupling Reactions”	Junliang Sun (PKU) “Structure determination by 3D electron diffraction”
9:20-9:45	Jong In Hong (SNU) “Chemosensors for Biologically Important Molecules”	Yan Lee (SNU) “Osmotic control by mild temperature change based on LCST materials for water desalination”
9:45-10:10	Manas K. Ghorai (IITK) “Enolate Anions and Dianions in Stereoselective C-C Bond Formation”	Shih-Chun Lo (UQ) “New Organic Materials and Metal Complexes for Clean Energy Generation”
10:10-10:30	Coffee break	
	TianLang Hall	FuRong Hall
Session Chairs	Mariappan Periasamy (UOHYD)	Jong In Hong (SNU)
10:30-10:55	Ding Ma (PKU) “Not so Expensive Heterogeneous Catalysts for C-O/C-H Bonds Activation”	Kian Ping Loh (NUS) “Scanning Tunneling Microscopy study of Edge, Size, Strain-controlled Graphene”
10:55-11:20	B. Moon Kim (SNU) “A Short Synthesis of Chiral Piperazine Derivatives from Chiral Vicinal Diamines”	Seokmin Shin (SNU) “Computational Studies on Tuning the Band Structures of Zigzag Graphene Nanoribbons”
11:20-11:45	Hideki Yorimitsu (KYOTO-U) “Palladium-Catalyzed Direct Arylation of Functional Heteroaromatics”	Xinghai Shen (PKU) “Supramolecular Structures in the Presence of Ionic Liquids”
11:45-12:10		Tushar Jana (UOHYD) “Organic/inorganic nanocomposites of polybenzimidazole: Role of inorganics structures”