



Technical Parallel Session - Chemical and Pharmaceutical Engineering (CPE) Programme
Day 2: Thursday, 22 January 2009
Location: NUS Kent Ridge Guild House

Time	Programme Schedule
Oral Presentation of PhD Students Intake 2006 Chair: Asst Prof Jiang Jianwen	
9:00 am – 9:20 am	Dhawal Shah <i>Effects of Mixed Molecular Crowding on Protein Aggregation</i>
9:20 am – 9:40 am	Fan Xuexiang <i>First Principle Mechanistic Study of the Pd-Catalyzed Carbonylation of Aryl Halides</i>
9:40 am – 10:00am	Zhang Wei <i>Efficient Recycling of NADPH in Enantioselective Bioreduction with Coupled Permeabilized Microorganisms</i>
10:00am – 10:20 am	Wang Wen <i>Immobilization of Chloroperoxidase on Functionalized Iron Oxide Core-Shell Magnetic Nanoparticles for Efficient Biocatalysis</i>
10:20 am – 10:40 am	Break
Oral Presentation of PhD Students Intake 2007 Chair: Assoc Prof Li Zhi	
10:40 am – 10:55 am	Lee Su Hui, Sophia <i>Functional Colloids for Continuous Separation Processes</i>
10:55 am – 11:10 am	Zahra Barikbin <i>Online Transmittance Measurements in Microfluidic Devices</i>
11:10 am – 11:25 am	Liang Jianchao <i>Computational Study of Chiral Separation of Racemic Mixtures</i>
11:25 am – 11:40 am	Sun Shipeng <i>Fabrication of Polyamide-imide Nanofiltration Hollow Fiber Membranes for Glutathione Separation</i>
11:40 am – 11:55 am	Zhou Zhengzhong <i>Investigation of Spacer Arm Length on Enantiomer Resolution Using Surface Immobilized Membrane</i>
11:55 am – 12:10 pm	Su Mingjuan <i>Transition Metal-Catalyzed Carbon-Fluorine Bond-Forming Reactions</i>
12:10 pm – 12:25 pm	Zhou Kang <i>Over-expression of Enzymes Involved in the 1-deoxy-D-xylulose 5-phosphate Pathway in E Coli</i>
12:25 pm – 1:30 pm	Lunch and Poster Session
Oral Presentation of MIT Students Chair: Assoc Prof Too Heng-Phon	
1:30 pm – 1:50 pm	Su Kyung Suh <i>Controlled Clustering of Magnetic Nanoparticles</i>



Time	Programme Schedule
1:50 pm – 2:10 pm	Jie Chen <i>Computational Study of Solvent Effects on the Molecular Self-Assembly of Tetrolic Acid in Solution and Implications for the Polymorph Formed from Crystallization</i>
2:10 pm – 2:30 pm	Break
2:30 pm – 2:50 pm	Priyadarshi Panda <i>Microfluidics Based Lithography for Fabricating Ceramic and Cell-laden Microparticles</i>
2:50 pm – 3:10 pm	Diwakar Shukla <i>Mechanism by Which Arginine Inhibits Protein Aggregation</i>
3:10 pm – 3:30 pm	Vikramaditya Ganapati Yadav <i>Strategies for Isoprenoid Biosynthesis in Microbial Hosts</i>