

Scientific Program
1st Sino-German bilateral symposium on Colloids and Interface Sciences
Oct. 29th - Oct. 30th 2009
Institute of Chemistry CAS, Beijing, China

Symposium Chairmen:

Prof. Mingyuan Gao

Institute of Chemistry, the Chinese Academy of Sciences

Prof. Helmuth Möhwald

Max-Planck-Institut für Kolloid- und Grenzflächenforschung

Oct. 29th, 2009

Note to the speakers: Please prepare your presentation in 20 or 15 minutes, and leave 5 minutes for questions and discussions.

Morning

08:30-08:40 **Chairman: Prof. Lidong Li**

Opening remarks addressed by Prof. Helmuth Möhwald and Prof. Mingyuan Gao

Section 1 Chairman: Prof. Mingyuan Gao

08:40-09:05 Overview on recent developments in the MPIKG

Prof. Helmuth Möhwald

Max-Planck-Institut für Kolloid- und Grenzflächenforschung

09:05-09:30 New Synthetic Strategies for Unique Functional Inorganic Nanostructures, Hybrid Nanomaterials and Their Applications

Prof. Shuhong Yu, University of Science and Technology of China

09:30-09:50 Aggregation Behavior of Gemini Surfactants and Their Special Interaction with Biomacromolecules in Aqueous Solutions

Prof. Yilin Wang, Institute of Chemistry, CAS

09:50-10:05 Coffee Break

Section 2 Chairman: Prof. Shuhong Yu

10:05-10:30 Fluorescence Resonance Energy Transfer (FRET) between Quantum Dots and Gold for specific DNA detection

Prof. Zhongze Gu, Southeast University

10:30-10:50 Quantum-dot sensitized solar cell

Prof. Daibin Kuang, Sun Yat-Sen University

10:50-11:10 Controllable Synthesis of Nanostructured Conducting Polymers

Prof. Zhixiang Wei, National Center for Nanoscience and Technology

- 11:10-11:30 Lipid Nanotubes for Templated Nanostructures
Prof. Yong Zhou, Nanjing University
- 11:30-11:50 Application of Dissipative Particle Dynamics simulations involving electrostatic interactions in biomembrane systems
Prof. Lianghui Gao, Beijing Normal University
- 11:50-14:00 Lunch

Afternoon

Section 1 Chairman: Prof. Zhongze Gu

- 14:00-14:25 Design of L-Glutamic acid based gelators and their corresponding supramolecular Gels: self-assembly and functionalization
Prof. Minghua Liu, Institute of Chemistry, CAS
- 14:25-14:50 Transformation of Organized Assemblies in Cationic-Anionic Surfactant Solutions
Prof. Jianbin Huang, College of Chemistry, Peking University
- 14:50-15:10 Nanoassembled hybrid liposomal drug delivery system, bimodal contrast agent and hemocompatible coatings
Prof. Zhifei Dai, Harbin Institute of Technology
- 15:10-15:30 Photoluminescent ZnO Nanoparticles
Prof. Huanming Xiong, Fudan University
- 15:30-15:45 Coffee Break

Section 2 Chariman: Prof. Minghua Liu

- 15:45-16:10 Drive to Land of Organic Electronics
Prof. Donghang Yan, Changchun Institute of Applied Chemistry
- 16:10-16:30 The surface photovoltage (SPV) techniques of Quantum Dots
Prof. Kuiying Li, National Laboratory of Metastable Materials Manufacture Technology & Science, Yanshan University
- 16:30-16:50 Glucose and Pesticide Biosensor Based on Enzyme/Quantum Dots Composite
Prof. Shaoqin Liu, Harbin Institute of Technology
- 16:50-17:10 Encapsulation of Biomacromolecules via templating mesoporous silica spheres
Prof. Aimin Yu, Murdoch University, Australia
- 17:10-17:30 Salt-induced fusion of capsules fabricated by the LbL self-assembly
Prof. Renjie Zhang, Key Lab of Colloid and Interface Chemistry of the Ministry of Education
- 18:00 Banquet

Oct. 30th, 2009

Section 1 Chairman: Prof. Changyou Gao

- 08:30-08:55 Colloidal crystal-assisted fabrication of patterned nanostructures
Prof. Limin Qi, College of Chemistry, Peking University
- 08:55-09:15 Polymer-based self-assembly multilayers: controllable fabrication and application
of surface-wrinkled microstructures
Prof. Conghua Lu, School of Material Science and Engineering Tianjin University
- 09:15-09:35 A novel computed tomography contrast agent based on dendrimer-entrapped gold
nanoparticles
Prof. Xiangyang Shi, Donghua University
- 09:35-09:55 Hydrophobic nanocrystal loaded protein/polyelectrolyte capsules
Prof. Xinrong Teng, Tongji University
- 09:55-10:10 Coffee Break

Section 2 Chairman: Prof. Donghang Yan

- 10:10-10:35 Fibrin gel filled PLGA scaffolds for cartilage repair
Prof. Changyou Gao, Zhejiang University
- 10:35-10:55 Biomineralization of sea urchin tooth
Prof. Yurong Ma, College of Chemistry, Peking University
- 10:55-11:15 Porous Materials and Catalysis
Prof. Yanqin Wang, East China University of Science and Technology
- 11:15-11:35 Hierarchical polymer/gold nanostructures for hydrophobic drugs' delivery
Prof. Dongxiang Li, Qingdao University of Science and Technology
- 11:35-11:55 Hollow TiO₂ containing multilayer nanofibers as photocatalyst
Prof. Liqin Ge, Southeast University
- 11:55 Closing remarks addressed by Prof. Helmuth Möhwald
- 12:00 Lunch

Afternoon

Visit the Institute of Chemistry, Beijing National Stadium (Bird's Nest) and water cube.