

Program of BMSE-3Bio 2014

May 11~15, 2014 Lake View Garden Hotel, Wuhan, China

Day 0, Sunday, May 11, 2014

8:30~18:00	Arrival & Registration
19:00~22:00	Welcome Reception

Day 1, Monday, May 12, 2014

8:30~9:00	Opening Ceremony	Chair: Guang Yang
9:00~9:20	Photo Session	
Theme A Biofabrication		
9:20~10:20	Oral Session	Chairs: Lei Jiang, Frank Müller
9:20~9:40	Bio-Inspired, Smart, Multiscale Interfacial Materials with Super-Wettability. Lei Jiang , <i>Institute of Chemistry, CAS, China.</i>	
9:40~10:00	Bioinspired Biomaterials. Frank Müller , <i>Friedrich Schiller Universität Jena, Germany.</i>	
10:00~10:20	Functional Polymer Hybrids <i>via</i> Aqueous Approaches. Bai Yang , <i>Jilin University, China</i>	
10:20~10:50	Tea/Coffee Break	
10:50~12:10	Oral Session	Chairs: Dirk Rothenstein, Xingyu Jiang
10:50~11:10	Phage-templated Biomineralization. Dirk Rothenstein , <i>Universität Stuttgart, Germany.</i>	
11:10~11:30	Microfluidics and Electrospinning for Biofabrication. Xingyu Jiang , <i>The National Center for Nanoscience, China.</i>	
11:30~11:50	Carbohydrate-based Macromolecular Self-assembly. Guosong Chen , <i>Fudan University, China.</i>	
11:50~12:10	Laser Assisted Processing of Bioinspired Surfaces. Stephan Gräf , <i>Friedrich Schiller Universität Jena, Germany.</i>	
12:10~14:00	Lunch	

14:00~15:40	Oral Session Chairs: Jian Xu, Mario Gauthier
14:00~14:20	Bio-inspired Materials: from Low to High Dimensional Structure. Jian Xu , <i>Institute of Chemistry, CAS, China.</i>
14:20~14:40	Arborescent Polypeptides as Unimolecular Micelles for Drug Delivery. Mario Gauthier , <i>Waterloo University, Canada.</i>
14:40~15:00	Research on Bionanofabrication Based on DNA Templates and Their Application. Qiqing Zhang , <i>Academy of Medical Sciences, China.</i>
15:00~15:20	Bioinspired Adhesive Systems. Alexander E. Kovalev , <i>University of Kiel, Germany.</i>
15:20~15:40	DNA Smart Materials. Dongsheng Liu , <i>Tsinghua University, China.</i>
15:40~16:10	Tea/Coffee Break
16:10~17:30	Oral Session Chairs: Denis Gebauer, Zhixiang Wei
16:10~16:30	Controlable Micro/Nano Biofabrication of Bacterial Cellulose Based Functional Materials. Guang Yang , <i>Huazhong University of Science and Technology, China.</i>
16:30~16:50	Mineral Precursors in Bio-inspired Syntheses. Denis Gebauer , <i>Universität Konstanz, Germany.</i>
16:50~17:10	Biomimetic Supramolecular Helices: Chirality Transfer from Conjugated Molecules to Structures. Zhixiang Wei , <i>The National Center for Nanoscience, China.</i>
17:10~17:30	Engineering Biomaterial Properties through Genetically Encoded Spy Chemistry: From Protein Topology to the Network of Spies. Wenbin Zhang , <i>Peking University, China</i>
18:00~20:00	Buffet
20:00~22:00	Poster Session

Day 2, Tuesday, May 13, 2014

Theme B Biomaterials	
8:30~10:10	Oral Session Chairs: Deyue Yan, Anke Nellesen
8:30~8:50	Hyperbranched Polyphosphates and their Biomedical Applications. Deyue Yan , <i>Shanghai Jiaotong University, China.</i>
8:50~9:10	Self-repairing Materials Inspired by Botanical Models. Anke Nellesen , <i>Bochum University of Applied Sciences, Germany.</i>
9:10~9:30	Organic/Inorganic Hybrid Functional Materials for Bioapplication. Meifang Zhu , <i>Donghua University, China.</i>
9:30~9:50	Surface Modification of Materials for Bio-applications. Hong Chen , <i>Soochow University, China.</i>
9:50~10:10	Bioinspired Damping Structures and Self-healing Materials. Thomas Speck , <i>Albert-Ludwigs-Universität Freiburg, Germany.</i>
10:10~10:40	Tea/Coffee Break
10:40~12:00	Oral Session Chairs: Won Jong Kim, Changyou Gao
10:40~11:00	Polymeric Biomaterials for Gene, Drug and Nitric Oxide Delivery. Won Jong Kim , <i>Pohang University of Science and Technology, Korea.</i>
11:00~11:20	Gradient Biomaterials Regulate Migration Rate and Direction of Cells. Changyou Gao , <i>Zhejiang University, China.</i>
11:20~11:40	Materials Inspired by Enzymes. Ingrid Weiss , <i>Leibniz Institute for New Materials, Germany.</i>
11:40~12:00	Functional Polymers and Peptides for Biomedical Applications Xianzheng Zhang , <i>Wuhan University, China.</i>
12:00~14:00	Lunch
13:30~14:00	Special Session (Optional) Chair: Guang Yang
13:30~14:00	Publishing in Wiley Materials Science Journals. Emily Hu , <i>Editorial Team of Small, Wiley-VCH.</i>

14:00~15:40	Oral Session Chairs: Cordt Zollfrank, Shuhong Yu
14:00~14:20	Bioinspired Optical Materials. Cordt Zollfrank , <i>Technische Universität München, Germany.</i>
14:20~14:40	Bio-inspired Synthesis and Assembly of Functional Materials. Shuhong Yu , <i>University of Science and Technology of China, China.</i>
14:40~15:00	Supramolecular Janus Hyperbranched Polymer and Its Photoresponsive Self-Assembly. Yongfeng Zhou , <i>Shanghai Jiaotong University, China.</i>
15:00~15:20	Nanocomposite Materials: From Biogenic to Artificial Systems Elena Rosseeva , <i>Universität Konstanz, Germany.</i>
15:20~15:40	Photodeformable Liquid Crystal Polymers and Bioinspired Applications. Yanlei Yu , <i>Fudan University, China.</i>
15:40~16:10	Tea/Coffee Break
16:10~17:50	Oral Session Chairs: Zhengzhong Shao, Tom Masselter
16:10~16:30	What Do We Learn From Animal Silks And Their Proteins? Zhengzhong Shao , <i>Fudan University, China.</i>
16:30~16:50	Bioinspired Fiber Reinforced Composite Materials. Tom Masselter , <i>Albert-Ludwigs-Universität Freiburg, Germany.</i>
16:50~17:10	Charge-Generation Polymers (CGPs) and Relevant Functional Materials. Shiyong Liu , <i>University of Science and Technology of China, China.</i>
17:10~17:30	Functional Biointerface of Titanium and Titanium Alloys Kaiyong Cai , <i>Chongqing University, China.</i>
18:00~21:00	Banquet

Day 3, Wednesday, May 14, 2014

Theme C Biomacromolecules	
8:30~10:10	Oral Session Chairs: Robert G. Gilbert, Daiwen Pang
8:30~8:50	Grafting of Starch with Synthetic Polymers in Heterogeneous Systems. Robert G. Gilbert , <i>University of Queensland, Australia.</i>
8:50~9:10	Live-cell Synthesis of Fluorescent Semiconductor Quantum Dots and Beyond: How to Have Cells Do What They Cannot Do? Daiwen Pang , <i>Wuhan University, China.</i>
9:10~9:30	Carbohydrates as Handles and Structure Elements in Biological and Bio-inspired Systems. Mark Santer , <i>Max Planck Institute of Colloids and Interfaces, Germany.</i>
9:30~9:50	Hierarchical polymer particles generation through microfluidics processing. Jintao Zhu , <i>Huazhong University of Science and Technology, China.</i>
9:50~10:10	Understanding and Design of Interactions in Biomacromolecules. Cheng-Wei Ma , <i>Technische Universität Hamburg, Germany.</i>
10:10~10:40	Tea/Coffee Break
10:40~11:40	Oral Session Chairs: Gregory F. Payne, Martin Humenik
10:40~11:00	Enlisting Electrical Signals to Create Structure and Confer Properties to Soft Matter Gregory F. Payne , <i>University of Maryland, US.</i>
11:00~11:20	Recombinant Spider Silk in Biomaterial Research. Martin Humenik , <i>Universität Bayreuth, Germany.</i>
11:20~11:40	Spontaneous Tubulation of Biomimetic Membranes Exposed to Chemically Distinct Environments. Yonggang Liu , <i>Changchun Institute of Applied Chemistry, CAS, China.</i>
11:40~12:00	Closing Ceremony Chair: Cordt Zollfrank
12:00~14:00	Lunch
14:00~17:30	Academic Visiting

19:00~21:00 Buffet

Day 4, Thursday, May 15, 2014

8:30~21:00 Tour & Departure