

# Program

## The 6th Sino-US Chemistry Professors Conference: Organic Chemistry & Chemical Biology

<b>June 14, 2010 (Monday)</b>			
Time	Program & Venue	Location	Chairperson
8:00-18:00	Registration	Santai Shan Hotel Lobby (三台山宾馆 大厅)	<b>Hongjun Ren</b> <b>Yingxia Yuan</b>
18:30-20:00	Welcome Reception	Santai Shan Hotel: Bai-He Hall/百合厅, 1st Floor	<b>Prof. Yanguang Wang</b> and <b>Prof. Qian Wang</b>

任红军: 15868183766

## Section I: Organic Chemistry

**Location: Santai Shan, Tian-Liang Hall/三台山, 天朗厅, 1<sup>st</sup> Floor**

<b>June 15, 2010 (Tuesday)</b>	
Chairperson: <b>Prof. Yanguang Wang (8:00-9:50)</b>	
8:00-8:30	<b>Jeffrey Johnson</b> (University of North Carolina at Chapel Hill) Complexity-Building Reactions: Recent Case Studies
8:30-8:50	<b>Weiping Tang</b> (University of Wisconsin, Madison) Stereoselective Addition of Halogen and Nucleophile to Unsaturated Carbon-Carbon Bonds
8:50-9:10	<b>Aiwen Lei</b> (雷爱文, 武汉大学) Oxidative Coupling --- The Chemistry between Two Nucleophiles
9:10-9:30	<b>Hao Li</b> (李浩, 中科院上海药物研究所) Gold(I) Catalyzed Dihydroamination of Allenes with Ureas
9:30-9:50	<b>Jie Wu</b> (吴劼, 复旦大学) 基于 2-炔基苯甲醛的若干串联反应
9:50-10:15	<b>Take Pictures and Coffee Break</b>
Chairperson: <b>Prof. Weiping Tang (10:15-11:55)</b>	
10:15-10:35	<b>Gang Zhao</b> (赵刚, 中科院上海有机化学研究所) 基于氨基酸的有机催化剂的设计、合成及其应用
10:35-10:55	<b>Cheng Ma</b> (马成, Zhejiang University) Efficient Construction of Functionalized Spiro-3,4-dihydropyran Derivatives
10:55-11:15	<b>Xiaodong Shi</b> (Department of Chemistry, West Virginia University) 1,2,3-Triazole, A Special Ligand in Tuning Transition Metal Catalyst Reactivity
11:15-11:35	<b>Wei Wang</b> (University of New Mexico, Albuquerque, USA) New Strategies in Developing Powerful Enantioselective Organocatalytic Cascade
11:35-11:55	<b>Jing Wu</b> (吴静, 杭州师范大学/Hangzhou Normal University) A Highly Efficient Copper-Catalyzed Hydrosilylation System for the Asymmetric Synthesis of Valuable Chiral Alcohols
12:00-14:00	<b>Lunch (Location: Santai Shan Hotel, Bai-He Hall/三台山, 百合厅, 1<sup>st</sup> Floor)</b>
Chairperson: <b>Prof. Xiaodong Shi (14:00-15:50)</b>	
14:00-14:30	<b>Zhangjie Shi</b> (施章杰, 北京大学) Recent Advances on C-O Activation
14:30-14:50	<b>Xigeng Zhou</b> (周锡庚, 复旦大学化学系) Selective Insertions of C-H and N-H bonds of Organolanthanides and Their Application in Organic Synthesis
14:50-15:10	<b>Nan Zheng</b> (University of Arkansas, Dept. of Chem. and Biochem.) Fe(II)-Catalyzed Intramolecular Amination of Aromatic C-H Bonds: Synthesis of 2,3-Disubstituted Indoles

15:10-15:30	<b>Shuli You</b> (游书力, 中科院上海有机化学研究所) Ir-Catalyzed Allylic Substitution Reactions
15:30-15:50	<b>Huanfeng Jiang</b> (江焕峰, South China University of Technology) 钯催化炔烃溴炔化反应研究 /Palladium-Catalyzed Bromoalkynylation of Alkynes
15:50-16:05	<b>Coffee Break</b>
Chairperson: <b>Prof. Gang Zhao (16:05-17:45)</b>	
16:05-16:25	<b>Chanjuan Xi</b> (席婵娟, 清华大学) Multifaceted Reactivity of Organozirconates
16:25-16:45	<b>Lei Wang</b> (王磊, 淮北师范大学) Cu(OTf) <sub>2</sub> -Catalyzed Arylmethylation of Terminal Alkynes with Benzylic Alcohols under Acid-, Base-, Ligand-, and Additive-Free Reaction Conditions
16:45-17:05	<b>Ning Jiao</b> (焦宁, 北京大学药学院天然药物及仿生药物国家重点实验室) The Application of Dioxygen in Transition Metal Catalyzed Reactions
17:05-17:25	<b>Xingang Zhang</b> (中科院上海有机化学研究所) Pd-Catalyzed Direct Olefination and Benzylation of Highly Electron-Deficient Perfluoroarenes
17:25-17:45	<b>Weiliang Duan</b> (段伟良, 中科院上海有机化学研究所 ) Palladium-Catalyzed Asymmetric Addition of Diarylphosphines to Enones toward the Synthesis of Chiral Phosphines
18:00	<b>Dinner (Location: Santai Shan Hotel, Bai-He Hall/三台山, 百合厅, 1<sup>st</sup> Floor))</b>
17:00-	Expo (Location: <b>Santai Shan, Hai-Tang Hall/三台山, 海棠厅, Ground Floor)</b>
19:30--	Scientific Advisory Board for Sino-US Chem Meeting (Location: Tea House at Santai Shan Lobby)

## Section II: Chemical Biology

**Location: Santai Shan, Hai-Tang Hall/三台山, 海棠厅, Ground Floor**

<b>June 15, 2010 (Tuesday)</b>	
Chairperson: <b>Prof. Qian Wang (8:00-9:50)</b>	
8:00-8:30	<b>Jianghong Rao</b> (Stanford Medical School) A Biocompatible Condensation Reaction and Its Applications for Bioimaging
8:30-8:50	<b>Aimin Liu</b> (Georgia State University) Mechanistic Enzymology of Tryptophan Metabolism
8:50-9:10	<b>Pengfei Wang</b> (University of Alabama at Birmingham) Development of Glycosylation Method for Rapid Carbohydrate Synthesis
9:10-9:30	<b>Binghe Wang</b> (Georgia State University) Inhibitors of Hypoxia Inducible Factor-1 $\alpha$
9:30-9:50	<b>Yingfu Li</b> (McMaster University, Canada) Engineering and Applications of DNAzymes
9:50-10:15	<b>Take Pictures and Coffee Break</b>
Chairperson: <b>Prof. Zhanting Li (10:15-11:55)</b>	
10:15-10:35	<b>Zhongwu Guo</b> (Wayne State University) Chemoenzymatic Synthesis of GPI-Anchored Proteins and Glycoproteins
10:35-10:55	<b>Xuefei Huang</b> (Michigan State University, Department of Chemistry) Magnetic Glyco-nanoparticles: Applications in Detections of Cancer and Atherosclerosis
10:55-11:15	<b>Ning-Hua Tan</b> (Kunming Institute of Botany, CAS) Discovery and Mechanism of Antitumor Cyclopeptides from Rubia Yunnanensis
11:15-11:35	<b>Ching-Hwa Kiang</b> (Rice University, Houston, TX, USA) Probing Protein and DNA Interaction Forces Using Single-Molecule Nanobiology
11:35-11:55	<b>Ao Zhang</b> (张翱, 中科院上海药物研究所) Natural Products-Inspired Drug Design & Discovery
12:00-14:00	<b>Lunch (Location: Santai Shan, Bai-He Hall/三台山, 百合厅, 1<sup>st</sup> Floor)</b>
Chairperson: <b>Prof. Jianghong Rao (14:00-15:50)</b>	
14:00-14:30	<b>Steven Benner</b> (The Foundation for Applied Molecular Evolution and The Westheimer Institute for Science and Technology) Synthesizing Artificial Genetic Systems
14:30-14:50	<b>Chuan He</b> (The University of Chicago) DNA/RNA Oxidative Modification by the Human AlkB Type Proteins
14:50-15:10	<b>Zhen Huang</b> (Department of Chemistry, Georgia State University, Atlanta, Georgia 30303, USA) Probing High Fidelity of DNA Base Paring via Selenium Atomic Probe and 3D Crystal Structure

15:10-15:30	<b>Huaqiang Zeng</b> (National University of Singapore) Circularly Folded Aromatic Pentamers and Their Biological Implications
15:30-15:50	<b>Zhongjun Li</b> (李中军, 北京大学药学院) Studies on the Methodology of the Quickly Assembly of High-mannose Oligosaccharides Based on the Hydrophobically Assisted Switching-Phase (HASP) Strategy
15:50-16:05	<b>Coffee Break</b>
Chairperson: <b>Prof. Zhen Xi (16:05-17:45)</b>	
16:05-16:25	<b>Qian Wang</b> (University of South Carolina) Viral assemblies as substrates for cell culturing
16:25-16:45	<b>Guigen Li</b> (Texas Tech University) Asymmetric Catalytic Strecker Reaction of N-Phosphonyl Imines Using Non-Toxic Cyanide Sources and BINOL-Derived Catalysts
16:45-17:05	<b>Xi Chen</b> (Department of Chemistry, University of California-Davis) Efficient Chemoenzymatic Synthesis of Complex Carbohydrates
17:05-17:25	<b>Chengzhi Cai</b> (University of Houston) Biofunctionalization of Silicon and Biomaterials
17:25-17:45	<b>Xuelong Sun</b> (孙学龙, Cleveland State University) Spherical Glycosurface Assembling Based Intact Immobilized Liposome
18:00	<b>Dinner</b> (Santai Shan, Bai-He Hall/三台山, 百合厅, 1 <sup>st</sup> Floor)
17:00--	Expo (Location: <b>Santai Shan, Hai-Tang Hall/三台山, 海棠厅</b> , Ground Floor)
19:30--	Scientific Advisory Board for Sino-US Chem Meeting (Location: Tea House at Santai Shan Lobby)

## Section I: Organic Chemistry

**Location: Santai Shan, Tian-Liang Hall/三台山, 天朗厅, 1<sup>st</sup> Floor**

<b>June 16, 2010 (Wednesday)</b>	
Chairperson: <b>Prof. Biao Yu (8:00-9:50)</b>	
8:00-8:30	<b>Yong Qing (秦勇, 四川大学)</b> Total Synthesis and SAR Study of Anti-MRSA Marinopyrrole A
8:30-8:50	<b>Richard P. Hsung (University of Wisconsin-Madison)</b> Total Synthesis of Phomactin A
8:50-9:10	<b>Wei-Min Dai (Zhejiang University &amp; The Hong Kong University of Science and Technology)</b> Total Synthesis via Ring-Closing Metathesis Approaches
9:10-9:30	<b>Yongmin Liang (梁永民, 兰州大学)</b> Electrophile-Induced Tandem Cyclization Reactions for the Annulation of Heterocycles
9:30-9:50	<b>贾彦兴 (北京大学药学院、天然药物及仿生药物国家重点实验室)</b> Total Synthesis of (-)-Stephanotic Acid Methyl Ester and (-)-Celogentin C
9:50-10:10	<b>Coffee Break</b>
Chairperson: <b>Prof. Richard P. Hsung (10:10-11:50)</b>	
10:10-10:30	<b>Biao Yu (俞飏, 中科院上海有机化学研究所)</b> 环状三萜皂甙的高效合成及其抗肿瘤活性
10:30-10:50	<b>Biao Jiang (姜标, Shanghai Institute of Organic Chemistry, CAS)</b> Study on the Synthesis of Palauamine and Its Derivatives
10:50-11:10	<b>Bo Liu (刘波, 四川大学化学学院)</b> Total Synthesis of Heliespirones A & C
11:10-11:30	<b>Song Yang (杨松, 贵州大学精细化工研究开发中心/Guizhou University)</b> Synthesis and Bioactivity of Heterocyclic Thioether, Sulfoxide, and Sulfone Derivatives
11:30-11:50	<b>Xiaoguang Lei (雷晓光, 北京生命科学研究所/天津大学)</b> Exploring the Structural Diversity and Biological Activity of Complex Natural Products
12:00-14:00	<b>Lunch (Location: Santai Shan, Bai-He Hall/三台山, 百合厅, 1<sup>st</sup> Floor)</b>
Chairperson: <b>Prof. Wei Wang (14:00-15:50)</b>	
14:00-14:30	<b>Kuilong Ding (丁奎岭, 中科院上海有机研究所)</b> Highly Efficient Chiral Organometallic Catalysts for Homo- and Heterogeneous Asymmetric Hydrogenation
14:30-14:50	<b>Chunjiang Wang (王春江, 武汉大学化学与分子科学学院)</b> Organocatalyzed Asymmetric Michael Addition of $\alpha$ -Aryl Ketone to Nitroolefins for Construction of Adjacent Quaternary and Tertiary Stereocenters

14:50-15:10	<b>Song Ye</b> (叶松, 中科院化学所/Institute of Chemistry, CAS) Asymmetric Cycloaddition Reactions of Ketenes Catalyzed by N-Heterocyclic Carbenes
15:10-15:30	<b>Zhaoguo Zhang</b> (张兆国, 上海交通大学化学化工学院) The Design and Application of Chiral Ligands in Asymmetric Hydrogenation Reactions
15:30-15:50	<b>Junan Ma</b> (马军安, 天津大学化学系) Application of Novel Chiral Phase-Transfer Catalysts in Asymmetric Synthesis
15:50-16:05	<b>Coffee Break</b>
Chairperson: <b>Prof. Rui Wang (16:05-17:45)</b>	
16:05-16:25	<b>Baoan Song</b> (宋宝安, Guizhou University) Enantioselective Synthesis and Antiviral Activity of Novel $\beta$ -Amino Esters by Mannich Reaction
16:25-16:45	<b>Minghua Xu</b> (徐明华, 中国科学院上海药物研究所) Access to Enantioenriched Homoallylamines by Efficient Asymmetric Nucleophilic Allylation of N-Sulfinyl Imines
16:45-17:05	<b>Guan-Wu Wang</b> (王官武, 中国科学技术大学) Solvent-Free Reactions Promoted by Ball Milling
17:05-17:25	<b>Yingchun Chen</b> (陈应春, 四川大学华西药学院) Asymmetric Allylic Alkylation Promoted by Lewis Basic Organocatalysts
17:25-17:45	<b>Wanbing Zhang</b> (张万斌, School of Chemistry and Chemical Engineering, Shanghai Jiao Tong University) Development of Effective Axial Chiral Ligands and Catalysis with New Design Concept for Asymmetric Catalysis
18:00	<b>Banquet (Location: Liu-Tong Hotel, Tian-Fu Ju/六通宾馆, 天府居, 1<sup>st</sup> Floor)</b>

## Section II: Organic Chemistry & Chemical Biology

**Location: Hai-Tang Hall/海棠厅, Ground Floor**

<b>June 16, 2010 (Wednesday)</b>	
Chairperson: <b>Prof. Jinbo Hu (8:00-9:50)</b>	
8:00-8:30	<b>Sukbok Chang</b> (Korea Advanced Institute of Science and Technology) Metal-Mediated C-H Bond Activation of Heterocycles for the C-C and C-N Bond Formation
8:30-8:50	Liming Zhang (University of California, Santa Barbara) Gold-Catalyzed Efficient Formation of Saturated <i>N</i> -Heterocycles
8:50-9:10	<b>Kung K. Wang</b> (Department of Chemistry, West Virginia University, Morgantown) Synthesis of a Basket-Shaped C <sub>56</sub> H <sub>38</sub> Hydrocarbon as a Precursor Toward and End-Cap Template for Carbon [6, 6]Nanotube
9:10-9:30	<b>Lei Liu</b> (刘磊, Tsinghua University) New methods for chemical synthesis of proteins
9:30-9:50	<b>Guosheng Liu</b> (刘国生, Shanghai Institute of Organic Chemistry) Palladium-Catalyzed Aminofluorination of Alkenes
9:50-10:10	<b>Coffee Break</b>
Chairperson: <b>Prof. Liming Zhang (10:10-11:50)</b>	
10:10-10:30	<b>Fengling Qing</b> (卿凤翎, 中国科学院上海有机化学研究所) Fluoroalkylation of C-H bonds
10:30-10:50	<b>Ruimao Hua</b> (华瑞茂, 清华大学化学系) 原子经济性环化加成反应设计与研究
10:50-11:10	<b>Shujiang Tu</b> (屠树江, 徐州师范大学) 多组分反应的化学选择性研究
11:10-11:30	<b>Zhixiang Xie</b> (谢志翔, 兰州大学化学化工学院) Total Synthesis of Biyouyanagin A
11:30-11:50	<b>Zhi-Zhen Huang</b> (黄志真, School of Chemistry and Chemical Engineering, Nanjing University) Cascade Reactions by the Combinations of Transition Metal and Organocatalysis
12:00-14:00	<b>Lunch (Location: Santai Shan, Bai-He Hall/三台山, 百合厅, 1<sup>st</sup> Floor)</b>
Chairperson: <b>Prof. Baoan Song (14:00-15:50)</b>	
14:00-14:30	<b>Hongbin Zhang</b> (张洪彬, 云南大学) 一些生物活性分子的设计与合成研究
14:30-14:50	<b>Hao Fang</b> (School of Pharmacy, Shandong University) Pyrrolidine-based drug discovery
14:50-15:10	<b>Chen Hongyu</b> (Nanyang Technological University)



	Fabrication of Complex Nanostructures by Colloidal Chemistry
15:10-15:30	<b>Yaxiong Tang</b> (唐亚雄, 中国科学院成都生物研究所) Anti-Cancer Potential of Flavokawains on Human Cancer
15:30-15:50	<b>Xuechen Li</b> (Department of Chemistry, The University of Hong Kong) Development of New Methodology in the Chemical Synthesis of (Glyco)peptides/(glyco)proteins
15:50-16:05	<b>Coffee Break</b>
Chairperson: <b>Prof. Zhangjie Shi (16:05-17:45)</b>	
16:05-16:25	<b>Zhen Xi</b> (席真, 南开大学元素有机化学研究所) Ribosome Translocation and Antibiotics
16:25-16:45	<b>Xiaoqin Zhu</b> (朱晓晴, 南开大学化学学院) Thermodynamic Diagnoses of Properties and Mechanism of Imines as Hydride Acceptors in Acetonitrile with "Molecule ID Card"
16:45-17:05	<b>Biwu Ma</b> (The Molecular Foundry, Lawrence Berkeley National Laboratory) Organic Solar Cells with Solution Processable Materials
17:05-17:25	<b>Zhishu Huang</b> (黄志纾, 中山大学药学院) Turning off Transcription of the Bcl-2 Gene by Stabilizing the Bcl-2 Promoter Quadruplex with Quindoline Derivatives
17:25-17:45	<b>Zhuo Tang</b> (唐卓, 中科院成都生物所) In Vitro Selection of DNA-Cleaving DNA Enzyme Which Could Work at Physiological Condition
18:00	<b>Banquet (Location: Liu-Tong Hotel, Tian-Fu Ju/六通宾馆, 天府居, 1<sup>st</sup> Floor)</b>

## Section I: Organic Chemistry

**Location: Santai Shan, Tian-Liang Hall/三台山, 天朗厅, 1<sup>st</sup> Floor**

<b>June 17, 2010 (Thursday)</b>	
Chairperson: <b>Prof. Hongbin Zai (8:00-9:50)</b>	
8:00-8:30	<b>Zhanting Li</b> (黎占亭, 中国科学院上海有机化学研究所) Exploring the Applications of Proorganized Oligomers and Polymers in Developing Functional Materials
8:30-8:50	<b>Yuanjiang Pan</b> (潘远江, Zhejiang University) 电喷雾质谱中离子/中性复合物中间体介导的新型电荷转移反应研究
8:50-9:10	<b>Ruikang Tang</b> (唐睿康, Zhejiang University) Carboxyl-mediated crystallization of calcium minerals in a biomimetic system
9:10-9:30	<b>Yong Ju</b> (巨勇, 清华大学化学系) 新型含甾体/三萜骨架功能分子的合成与性能研究
9:30-9:50	<b>Yan Zhang</b> (张艳, 南京大学化学化工学院) Smart Self-Assembling System Based on Modified Short Peptides
9:50-10:05	<b>Coffee Break</b>
Chairperson: <b>Prof. Feihe Huang (10:05-11:35)</b>	
10:05-10:35	<b>Jinbo Hu</b> (胡金波, 中国科学院上海有机化学研究所) New Fluoroolefination Reactions Based on Fluorinated Sulfone and Sulfoximine Reagents
10:35-10:55	<b>Zhiqiang Wang</b> (Kent State University) Catalytic Activities of Bacterial Nitric Oxide Synthase
10:55-11:15	<b>Baoqing Song</b> (宋庆宝, 浙江工业大学化材学院) Asymmetric Henry Reaction Catalyzed by Cu(I)-based Chiral Amino Alcohol Complex
11:15-11:35	<b>Xinjing Tang</b> (汤新景, 北京大学医学部天然药物及仿生药物国家重点实验室) Photomodulating RNA Cleavage Using Photolabile Circular Antisense Oligodeoxynucleotides
12:00-13:00	<b>Lunch (Location: Santai Shan, Bai-He Hall/三台山, 百合厅, 1<sup>st</sup> Floor)</b>

## Section II: Supramolecular and Material Chemistry

**Location: Santai Shan, Hai-Tang Hall/三台山, 海棠厅, Ground Floor**

<b>June 17, 2010 (Thursday)</b>	
Chairperson: <b>Prof. Guanwu Wang (8:00-9:50)</b>	
8:00-8:30	<b>Yi Liu</b> (Lawrence Berkeley National Laboratory) Donors and Acceptors Made to Order – from Interlocked Molecules to Supramolecular Materials
8:30-8:50	<b>Feihe Huang</b> (Zhejiang University) Threaded Structures Based on Crown Ether Derivatives
8:50-9:10	<b>Jingsong You</b> (游劲松, 四川大学化学学院) Discovery of Fluorescent Core Skeletons Based on Heteroaromatics and their application in Supramolecular Chemistry
9:10-9:30	<b>Jun Li</b> (National University of Singapore) Supramolecular Self-Assembled Macromolecular Systems for Biomaterials Application
9:30-9:50	<b>Hua Zhang</b> (Nanyang Technological University) Nanopatterns and Nanomaterials: Fabrication, Synthesis and Applications Chemistry
9:50-10:05	<b>Coffee Break</b>
Chairperson: <b>Prof. Yuanjiang Pan (10:15-11:45)</b>	
10:05-10:25	<b>Chuan-Feng Chen</b> (陈传峰, 中国科学院化学研究所) Hydrogen Bonds Mediated Self-Assembly Based on Hydrazide Derivatives
10:25-10:45	<b>Dunwei Wang</b> (Boston College, Department of Chemistry) Energy Interconversion Using Nanomaterials: Challenges and Opportunities
10:45-11:05	<b>Derong Cao</b> (曹德榕, School of Chemistry and Chemical Engineering, South China University of Technology) Synthesis and Electroluminescence Properties of Diketopyrrolopyrrole-Containing Polymers
11:05-11:25	<b>Qichun Zhang</b> (MSE, Nanyang Technological University) Organic Materials for OLED
11:25-11:45	<b>Leyong Wang</b> (王乐勇, 南京大学化学化工学院) 分子陀螺的合成与组装
12:00-13:00	<b>Lunch (Location: Santai Shan, Bai-He Hall/三台山, 百合厅, 1<sup>st</sup> Floor)</b>