

Tuesday, June 26, 2007			Wednesday, June 27, 2007			Thursday, June 28, 2007			Friday, June 29, 2007	
Time	Event		Time	Event		Time	Event		Time	Event
8:00			8:00			8:00			8:00	
8:20			8:20			8:20			8:20	
8:40			8:30	Introduction -		8:40	Steven Sibener		8:40	Stefan Vajda
9:00			9:00	Bill Chang, NSF		9:00			9:00	
9:20			9:20	Abhaya K. Datye		9:20			9:20	
9:40			9:40			9:40	Jason White		9:40	Difei Han
10:00			10:00			10:00	Jerry LaRue		10:00	Andrew Robertson
10:20			10:20	coffee break		10:20	coffee		10:20	coffee
10:40			10:40	Qihua Yang		10:40	Qikun Xue		10:40	Rob Savinelli
11:00			11:00			11:00			11:00	Qiang Fu
11:20			11:20	Heng Zheng		11:20			11:20	
11:40			11:40	Sam Fleishman		11:40	Xin Liu		11:40	closing remarks
12:00			12:00	lunch		12:00			12:00	lunch
12:20			12:20			12:20	lunch		12:20	
12:40			12:40			12:40			12:40	
1:00			1:00			1:00			1:00	IAB member meeting
1:20			1:20	Bruce D. Kay		1:20	Simon Bare		1:20	
1:40			1:40			1:40			1:40	
2:00			2:00			2:00			2:00	
2:20			2:20	Hongfei Wang		2:20	Shuanglin Hu		2:20	
2:40			2:40			2:40	Xiulian Pan		2:40	End of Workshop
3:00	Check-IN		3:00	Hongtao Bian		3:00			3:00	
3:20			3:20	break		3:20	break		3:20	
3:40			3:40	Wenjie Shen		3:40	Yuxiang Weng		3:40	
4:00			4:00			4:00			4:00	
4:20			4:20	Hongyang Liu		4:20	Elise Switzer		4:20	
4:40			4:40	Peter Ford		4:40	Fengtao Fan		4:40	
5:00			5:00			5:00	Bret Jackson		5:00	
5:30			5:20			5:20			5:30	
6:00			5:40			5:40			6:00	
6:30			6:00	dinner		6:00			6:30	
7:00			6:30			7:00	VIP dinner		7:00	
7:30			7:00			7:30			7:30	
8:00			7:30	Poster Session		8:00			8:00	
8:30			8:00			8:30			8:30	
9:00			8:30			9:00			9:00	



## US-China Partnership-Workshop on Heterogeneous Catalysis and Surface Chemistry

...sponsored by the Partnership for International Research and Education – Electron Chemistry and Catalysis at Interfaces PIRE-ECCI and the Dalian Institute for Chemical Physics (DICP)

Workshop Schedule: June 27-29, 2007, Dalian, China

### Tuesday, June 26, 2007

3:00-4:30PM            Check-In – Dalian Bayshore Hotel

### Wednesday, June 27, 2007 – Morning Session Chair: Susannah Scott, UCSB Afternoon Session Chair: Wei-Xue Li, DICP

(DICP Bio-Technology Division Conference Room)

8:30-9:00AM	Introduction (Alec Wodtke, Susannah Scott, Xueming Yang)
9:00-9:20AM	Bill Chang, NSF
9:20-10:20AM	<b>Abhaya K. Datye</b> , UNM: <i>Dynamics and Mobility of Nanoparticles in Heterogeneous Catalysts</i>
10:20-10:40AM	Break
10:40-11:20AM	<b>Qihua Yang</b> , DICP: <i>Periodic Mesoporous Organosilicas as Novel Kinds of Catalytic Materials</i>
11:20-11:40AM	<b>Heng Zheng</b> , DICP: <i>On the Active Center of Mo/Zeolite Catalyst for Methane Dehydroaromatization Reaction</i>
11:40-12:00PM	<b>Sam Fleischman</b> , UCSB: <i>Spectroscopic Investigation of GaMe<sub>3</sub> Reactions on Silica and HZSM-5</i>
12:00-1:20PM	Lunch (DICP cafeteria)
1:20-2:20PM	<b>Bruce D. Kay</b> , PNNL: <i>Growth and Characterization of Nanoporous Thin Films Using Molecular Beam Techniques</i>
2:20-3:00PM	<b>Hongfei Wang</b> , Institute of Chemistry, CAS: <i>Probe Complex Surface with Nonlinear Spectroscopy</i>

3:00-3:20PM	<b>Hongtao Bian</b> , Institute of Chemistry, CAS: <i>Control and Measurement of Molecular Orientation at the Electrochemical Surface with Second Harmonic Generation</i>
3:20-3:40PM	Break
3:40-4:20PM	<b>Wenjie Shen</b> , DICP: <i>Nanocatalysis: Particle Size and Morphology Implications</i>
4:20-4:40PM	<b>Hongyang Liu</b> , DICP: <i>Mesoporous Silica Confined Ag and AgAu Catalyst for CO Oxidation</i>
4:40-5:40PM	<b>Peter Ford</b> , UCSB: <i>Studies Relevant to Catalytic Activation of Small Molecules</i>
6:00-7:30PM	Dinner (DICP cafeteria)
7:30PM	Poster Session (Lobby of DICP Bio-Technology Conference Room)

**Thursday, June 28, 2007 – Morning Session Chair: Xueming Yang, DICP**  
**Afternoon Session Chair: Horia Metiu, UCSB**

(DICP Bio-Technology Conference Room)

8:40-9:40AM	<b>Steven Sibener</b> , University of Chicago: <i>Interfacial Dynamics of Polymers and SAMs: Glassy Dynamics, Hierarchical Assembly and the Quest for Perfection</i>
9:40-10:00AM	<b>Jason White</b> , UCSB: <i>Vibrationally Promoted Electron Emission from Low Work Function Surfaces</i>
10:00-10:20AM	<b>Jerry LaRue</b> , UCSB: <i>Translational Promotion of Electron Emission at Metal Surfaces</i>
10:20-10:40AM	Break
10:40-11:40AM	<b>Qikun Xue</b> , Tsinghua University: <i>Manipulation of Single Molecule Spins by Quantum Size Effects</i>
11:40-12:20PM	<b>Xin Liu</b> , DICP: <i>Uncovering the Hidden Effects of Quantum Symmetry</i>
12:20-1:20PM	Lunch (DICP cafeteria)

1:20-2:20PM	<b>Simon Bare</b> , UOP, LLC: <i>the Impact of In-Situ X-Ray Absorption Spectroscopy in Heterogeneous Catalysis</i>
2:20-2:40PM	<b>Shuanglin Hu</b> , University of Science and Technology of China: <i>Interaction between H<sub>2</sub> Molecules and BN Nanotubes with BN Divacancies</i>
2:40-3:20PM	<b>Xiulian Pan</b> , DICP: <i>Carbon Nanotube Confined Transition Metals for Catalysis</i>
3:20-3:40PM	Break
3:40-4:20PM	<b>Yuxiang Weng</b> , Institute of Physics, CAS: <i>Fasted Chemical Oscillations Observed in Photocatalytic Water Splitting Reaction at TiO<sub>2</sub> Rutile Single Crystal Surface</i>
4:20-4:40PM	<b>Elise Switzer</b> , UNM, <i>Nanostructured Anode Pt-Ru Electrocatalysts for Direct Methanol Fuel Cells</i>
4:40-5:00PM	<b>Fengtao Fan</b> , DICP: <i>In-situ UV Raman Study of Zeolite Crystal Mechanism</i>
5:00-6:00PM	<b>Bret Jackson</b> , UMASS, Amherst: <i>The Role of Lattice Reconstruction in Gas-Surface Reactions</i>
6:30PM	Dinner – All (DICP cafeteria)
7:00PM	VIP Dinner - (will be available during the meeting)

**Friday, June 29, 2007 – Session Chair: Alec Wodtke, UCSB**

(DICP Bio-Technology Conference Room)

8:40-9:40AM	<b>Stefan Vajda</b> , Argonne National Laboratory: <i>Highly Selective Partial Oxidation Reactions on Size-Selected Nanocatalysts: Towards the Understanding of Size/Shape &amp; Function Relationship in Catalysis</i>
9:40-10:00AM	<b>Difei Han</b> , DICP: <i>Heterogeneous Asymmetric Hydroformylation of Olefins on Chirally Modified Rhodium Catalysts</i>
10:00-10:20AM	<b>Andrew Robertson</b> , LSSU: <i>Bio-Diesel Formation Utilizing Novel Hydrotalcite like Materials of Various Metal Compositions</i>
10:20-10:40AM	Break

10:40-11:00AM	<b>Rob Savinelli</b> , UCSB: <i>XAS and XPS Characterization of Metal Carbide Catalysts</i>
11:00-11:40AM	<b>Quiang Fu</b> , DICP: <i>the Chemical Tunability in 2D Nano-Film Catalyst Systems</i>
11:40-12:00PM	Closing Remarks (Alec Wodtke, Susannah Scott, Xueming Yang)
12:00-1:00PM	Lunch (DICP cafeteria)
1:00-2:30PM	International Advisory Board Meeting

**Workshop End**



## US-China Partnership-Workshop on Heterogeneous Catalysis and Surface Chemistry

... sponsored by the Partnership for International Research and Education – Electron Chemistry and Catalysis at Interfaces PIRE-ECCI and the Dalian Institute for Chemical Physics (DICP)

Poster Session: Thursday, June 28, 2007, 7:30PM  
DICP Bio-Technology Conference Room Lobby

<u>Name</u>	<u>Institute</u>	<u>Poster Title</u>
Xihong Chen	UCSB	<i>Observing Catalysis through the Agency of the Participating Electrons Surface-Chemistry-Induced Current Changes in a Tin-Oxide Nanowire Decorated with Silver</i>
Ranran Feng	Inst. of Chem. CAS	<i>Vibrational Spectra of Interfacial Water</i>
Zhi Huang	Inst. of Chem. CAS	<i>Spectroscopic Probe of Molecules Adsorbed at Nanoparticle Surfaces</i>
YuanYuan Ji	UCSB	<i>First Collision-Free Experiment of Chlorine Isocyanate Photodissociation at 193 nm as Studied by Synchrotron Photoionization</i>
Guoqing Jia	DICP	<i>Adsorption of L-Tryptophan on Silver Surface as Investigated by Surface-Enhanced Raman Scattering Spectroscopy</i>
Tao Jiang	DICP	<i>First Principle Study of Hydrogenation on Mg(0001)</i>
Charles Johnson	LSSU	<i>Use of Modified Hydrotalcite Compounds as Catalysts for Biodiesel Production</i>
Jian Liu	DICP	<i>Hydrolysis-Controlled Synthesis of Mesoporous Materials with Hierarchical Structure</i>
Jerry Macala	UCSB	<i>Transesterification Catalysts from Modified Talcite Precursors</i>
Andrew Morrill	UCSB	<i>Electronic Effects of Silane SAM Binding on the Sensing Properties of Nanostructured Titania (NST)</i>
Claron Ridge	UCSB	<i>Local Work Function Determination of Caesium on Au(111) by STM and Tunneling Spectroscopy</i>
Victor Soto	UCSB	<i>Density Functional Theory Study of the Promotional Effect of Alloys in Catalysis: Vinyl Acetate Synthesis with Au/Pd Catalysts</i>
Xiao Tong	UCSB	<i>Deposition of Mass-Selected Au and Ag Clusters on Titania: A Model Catalyst Study with STM</i>
Zuo Wang	USTC	<i>Enhanced Chemical Activity of TiO<sub>2</sub>(110)-(1x1) and Diffusion of Oxygen-Vacancy Pairs</i>
Dan Wu	Inst. of Chem. CAS	<i>Electronic-Vibrational Coupling of R6G Adsorbed at Air/Water Interface</i>
Yanyan Xu	Inst. of Chem. CAS	<i>Orientation and Electronic Resonance of Interfacial Molecular Probed with Second Harmonic Generation</i>
Mingmei Yang	DICP	<i>Density Functional Theory Study of Coadsorption of CH<sub>x</sub> and CO on Rh(111)</i>