

Partnership in International Research and Education
in Electron Chemistry and Catalysis at Interfaces (PIRE-ECCI)
Annual Meeting, Aug. 2-5, 2011, UC Santa Barbara

Tuesday, August 2nd

Session Chair: Susannah Scott		Engineering Science Building 1001
9:00AM-9:30AM	Coffee and Hellos	
9:30AM-10:10AM	Henry Yang Chancellor, UC Santa Barbara	<i>Welcome to UCSB</i>
	Susannah Scott PIRE-ECCI Director, UCSB	<i>PIRE-ECCI: Past, Present and Future</i>
	Cynthia Sagers PIRE Program Manager, NSF	<i>International Initiatives at the US National Science Foundation</i>
	Horia Metiu, Carrie Kuffel UCSB	<i>Opening remarks and information</i>
10:10AM-11:10AM	Tao Zhang Director, Dalian Institute of Chemical Physics	PLENARY LECTURE: <i>Design and preparation of supported metal catalysts - catalysis from nanoparticle to single atom</i>
11:10AM-11:40AM	Break/Informal Discussion	
11:40AM-12:20PM	Jie Fan Zhejiang University	<i>High-Loading Strategy to Enhance the Anti-sintering Properties of Metal Nanoparticles</i>
12:20PM-1:00PM	Liming Zhang UC Santa Barbara	<i>Establishing the equivalency between alkynes and alpha-diazo ketones via gold catalysis</i>
1:00PM-2:30PM	Lunch: De La Guerra (DLG) Dining Commons	
Session Chair: Horia Metiu		Engineering Science Building 1001
2:30PM-3:10PM	Susannah Scott UC Santa Barbara	<i>Ba(Ce,Pd)O₃ as a sulfur-tolerant NO_x storage-reduction (NSR) catalyst</i>
3:10PM-3:50PM	Jinlong Yang Univ. Science Technol. China	<i>Toward Atomic Details of Graphene Growth on Metal Surfaces: Theoretical Studies</i>
3:50PM-4:20PM	Break/Informal Discussion	
4:20PM-5:00PM	Peter Ford UC Santa Barbara	<i>Nanomaterial antennae in photodelivery of bioactive molecules</i>
5:00PM-5:40PM	Wei-Xue Li Dalian Inst. of Chemical Physics	<i>Carbon Monoxide Conversion: Insights from First-Principles Calculation</i>
5:40PM-6:00PM	Guided Discussion	
6:00PM	Dinner: DLG dining commons	

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Wednesday, August 3rd

Session Chair: Baron Peters		Engineering Science Building 1001
9:00AM-9:30AM	Coffee	
9:30AM-10:10AM	Matthias Scheffler UCSB/FHI-Berlin	<i>Accuracy and reliability of the base of multi-scale modeling</i>
10:10AM-10:50AM	Nanfeng Zheng Xiamen University	<i>Multi-level structural control of inorganic nanomaterials for catalysis applications</i>
10:50AM-11:20AM	Break/Informal Discussion	
11:20AM-12:00PM	Luca Ghiringhelli FHI-Berlin	<i>Towards catalysis by free gold clusters: beyond the static, monostructure description.</i>
12:00PM-12:40PM	Anthony Crisci , UCSB Bethany Wigington , UCSB Lei Zhong , East China Univ. Xiaonao Liu , Zhejiang Univ.	<i>The PIRE-ECCI Student Experience: American and Chinese Perspectives</i>
12:40PM-1:00PM	Guided Discussion	
1:00PM-2:30PM	Lunch: De La Guerra Dining Commons	
Session Chair: Ram Seshadri		Engineering Science Building 1001
2:30PM-3:10PM	Eric McFarland UC Santa Barbara	<i>Solar energy conversion using complex and cost-effective material systems</i>
3:10PM-3:50PM	Horia Metiu UC Santa Barbara	<i>Alkane activation by modified oxides</i>
3:50PM-4:20PM	Break/Informal Discussion	
4:20PM-5:00PM	Anhui Lu Dalian University of Technology	<i>Designed Porous Carbons for CO₂ capture</i>
5:00PM-5:40PM	Jinping Zhang Suzhou Inst. of Nano-tech and Nano-bionics	<i>An introduction to UHV TEM system for in-situ surface studies</i>
5:40PM-6:00PM	Guided Discussion	
6:00PM	Dinner: DLG dining commons	

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Thursday, August 4th

Session Chair: Mike Gordon		Engineering Science Building 1001
9:00AM-9:30AM	Coffee	
9:30AM-10:10AM	Christian Jooss Universität Göttingen	<i>In-situ ETEM study of Pr-doped CaMnO₃ for photocatalytic water splitting</i>
10:10AM-10:50AM	Dong Hui Zhang Dalian Inst. of Chemical Physics	<i>Quantum Dynamical Study of Dissociative Chemisorption of HCl on Au(111) Surface</i>
10:50AM-11:20AM	Break/Informal Discussion	
11:20AM-12:00PM	Weihong Qiao Dalian University of Technology	<i>Design and application of functional amphiphilic molecules</i>
12:00PM-12:40PM	Baron Peters UC Santa Barbara	<i>From chemical properties to likely structures: a strategy for modeling amorphous silica – alumina</i>
12:40PM-1:00PM	Guided Discussion	
1:00PM-2:30PM	Lunch: De La Guerra Dining Commons	
Session Chair: Galen Stucky		Marine Science Auditorium 1302
2:30-3:30PM	Jose Rodriguez Brookhaven National Lab	PLENARY LECTURE: <i>Fundamental Studies on the Water-gas Shift Reaction on Metal/Oxide Catalysis: Active Sites and Reaction Mechanism</i>
3:30PM-4:10PM	Dongyuan Zhao Fudan University	<i>Hydrothermal Synthesis and Applications of Ordered Mesoporous Carbon Materials</i>
4:10PM-4:40PM	Break/Informal Discussion	
4:40PM-5:20PM	Brad Chmelka UC Santa Barbara	<i>Understanding and Controlling Crystallization of Silicate and Aluminosilicate Frameworks</i>
5:20PM-6:00PM	Ram Seshadri UC Santa Barbara	<i>What can solid state chemistry contribute to heterogeneous catalysis? Examples of Pd²⁺ and Au³⁺</i>
6:00PM	Dinner: DLG dining commons	

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Friday, August 5th

Session Chair: Peter Ford		Engineering Science Building 1001
9:00AM-9:30AM	Coffee	
9:30AM-10:10AM	Qiang Fu Dalian Inst. Of Chemical Physics	<i>Dynamic studies in surface chemistry of graphene on metals by LEEM/PEEM</i>
10:10AM-10:50AM	Qihua Yang Dalian Inst. of Chemical Physics	<i>Organic-inorganic porous materials for asymmetric catalysis</i>
10:50AM-11:20AM	Break/Informal Discussion	
11:20AM-12:00PM	Steve Buratto UC Santa Barbara	<i>STM studies of oxide clusters supported on oxides</i>
12:00PM-12:40PM	Philipp Vana Universität Göttingen	<i>RAFT Polymerization from Solid Surfaces</i>
12:40PM-1:00PM	Break/Informal Discussion	
1:00PM-2:30PM	Lunch: De La Guerra Dining Commons	
Session Chair: Steve Buratto		Engineering Science Building 1001
2:30PM-3:10PM	Xueming Yang Dalian Inst. of Chemical Physics	<i>Stepwise photocatalytic dissociation of methanol and water on TiO₂(110)</i>
3:10PM-3:50PM	Mike Gordon UC Santa Barbara	<i>Synthesis, characterization, and testing of Pt-Ag nanoparticle catalysts.</i>
3:50PM-4:20PM	Break/Informal Discussion	
4:20PM-	Tours of MRL and CNSI facilities	
6:00PM	Banquet Dinner: Faculty Club	