

THE PARTNERSHIP FOR INTERNATIONAL RESEARCH AND EDUCATION AT THE UNIVERSITY OF CALIFORNIA

ELECTRON CHEMISTRY AND CATALYSIS AT INTERFACES



PIRE-ECCI ANNUAL MEETING DECEMBER 16-17, 2013 UC Santa Barbara

Dec 16, 2013 All Lectures: ESB 1001

8:30-9:00	breakfast	
9:00-9:15	Prof. Susannah Scott	Opening Remarks
	<i>Galen Stucky</i>	<i>Session Chair</i>
9:15-9:45	Prof. Dongyuan Zhao Fudan University	Ordered Mesoporous Materials Based on Interfacial Assembly and Engineering
9:45-10:15	Prof. Fan Jie Zhejiang University	Mesoporous catalytic materials: design and discovery
10:15-10:45	Prof. Michael Gordon UC Santa Barbara	Microplasma deposition of nanostructured materials for catalytic, sensing, magnetic, and photonic applications
10:45-11:00	break	
	<i>Peter Ford</i>	<i>Session chair</i>
11:00-11:30	Prof. Martin Moskovits UC Santa Barbara	Photoelectrocatalysis with the aid of plasmons.
11:30-12:00	Prof. Nanfeng Zheng Xiamen University	Encapsulation Boosts Catalysis by Noble Metal Nanocrystals.
12:00-12:15	Augustin Pierr UC Santa Barbara	Using nanostructures as photosensitizers and delivery vehicles for photoactive CO releasing moieties.
12:15-1:45	lunch	UCen Harbor Room
	<i>Martin Moskovits</i>	<i>Session chair</i>
1:45-2:15	Prof. Qiang Fu Dalian Inst of Chem Physics	Chemical reactions under two-dimensional graphene-like covers
2:15-2:45	Prof. Eric McFarland UC Santa Barbara	Solar Chemical Conversion on Photoelectrochemically Active Heterostructures
2:45-3:15	Prof. Liming Zhang UC Santa Barbara	Gold Vinylidene Chemistry and Its Potential Application in Materials Research
3:15-3:30	break	
	<i>Daniel Little</i>	<i>Session chair</i>
3:30-4:00	Prof. Peter Ford UC Santa Barbara	Reductive disassembly of lignocellulose solids
4:00-4:30	Prof. Feng Wang Dalian Inst of Chem Physics	Catalytic organic transformation reactions over nanostructured oxides
4:30-5:00	Robert Francke UC Santa Barbara	Optimizing Electron Transfer Mediators Based on Arylimidazoles by Ring Fusion
5:00-5:30	Prof. Cheng-Chu Zeng Beijing Univ of Technology	Metal-free, electrochemically oxidative functionalization of C-H bonds mediated by halide ion or TEMPO
6:00	Dinner (invitation only)	Frog Grill, Glen Annie Golf Course

All UCSB graduate students and faculty are welcome. To register, please email kuffel@chem.ucsb.edu

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Dec 17, 2013	All lectures: ESB 1001	
8:30-9:00	breakfast	
	<i>Horia Metiu</i>	<i>Session chair</i>
9:00-9:30	Prof. Xinhe Bao Dalian Inst of Chem Physics	Nanocatalysis: From Vision to Reality
9:30-10:00	Prof. Steven Buratto UC Santa Barbara	Size-Selected Metal Oxide Clusters on TiO ₂ (110)-(1×1): Model Catalysts for Oxidative Dehydrogenation
10:00-10:15	Hunter Neilson UC Santa Barbara	Selective Oxidation of Methanol by Size Selected V _x O _y Clusters on TiO ₂ (110)
10:15-10:30	break	
	<i>Steven Buratto</i>	<i>Session chair</i>
10:30-11:00	Prof. JinPing Zhang SINANO	Catalytical Reactions & Products Observed in TEM
11:00-11:30	Prof. Trevor Hayton UC Santa Barbara	New Methods for the Synthesis of Metal-Ligand Multiple Bonds
11:30-11:45	Ellie Pedrick UC Santa Barbara	Exploring Multiple Bonding of Actinides and Rare Earth Metals
11:45-1:15	lunch	UCen Harbor Room
	<i>Trevor Hayton</i>	<i>Session chair</i>
1:15-1:45	Prof. Norbert Reich UC Santa Barbara	Gold hollow nanoshell-based delivery of proteins and drugs into cells with spatio-temporal control
1:45-2:15	Prof. Chunhai Fan Shanghai Inst of Applied Physics	A DNA nanostructure-based surface engineering approach for biosensing applications.
2:15-2:30	Anna Simon UC Santa Barbara	Thermodynamics of folded biomolecules on nanoscale and crowded surfaces.
2:30-3:00	Prof. Fan Zhang Fudan University	Highly efficient upconversion nanomaterials: recent progresses and challenges
3:00-3:15	break	
	<i>Norbert Reich</i>	<i>Session chair</i>
3:15-3:30	Dean Morales UC Santa Barbara	Hydrophobic-Core/Hydrophilic Shell Particles for Light Activated Drug Delivery.
3:30-3:45	John Garcia UC Santa Barbara	Conjugate Systems for Nitric Oxide Delivery
3:45-4:00	Bryan Goldsmith UC Santa Barbara	CO and NO induced disintegration of Rh, Pd, and Pt Nanoparticles on TiO ₂ (110) support: A First Principles Study
4:00-4:30	Prof. Susannah Scott UC Santa Barbara	New structured catalysts for biomass transformations
4:30-5:00	Prof. Dongyuan Zhao Fudan University	Discussion: 2014 PIRE Workshop
6:00	Dinner	UCen Harbor Room

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