PIRE-ECCI/ICMR Summer Conference Monday, August 14 through Friday, August 25, 2006

Contact Numbers:

Gold Cab Taxi, available 24/7: (805) 685-9797

Department of Chemistry and Biochemistry: (805) 893-8085

All lectures will be held in the Engineering Sciences Building (ESB) 1001 unless otherwise noted.

Sunday, August 13

Time	Speaker and Title
5:30 PM to 7:30 PM	Registration And Reception Buffet
	Jameson Center Patio
	Santa Ynez Apartments
	6750 El Colegio Road, Goleta
	(805) 893-2626 (apartment office)

Monday, August 14

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Time	Speaker and Title
8:30 AM	Welcome Breakfast Meeting Room ESB 1001, Sponsored By:
	Catalytic Solutions, Incorporated, Oxnard, California
8:45 AM to 9:15 AM	Introductions: Susannah Scott, Co-Director PIRE-ECCI Program
	Welcome: Matt Tirrell, Dean, Engineering; Martin Moskovits, Dean, Mathematical, Life
	and Physical Sciences; Alec Wodtke, Director PIRE-ECCI Program
9:15 AM to 11:15 AM	John Yates, University of Pittsburgh
	"Photochemistry on TiO2 Semiconductor Surfaces – How Kinetic Measurements Can
	Provide Insight into the Behavior of Charge Carriers"
11:30 PM to 12:30 PM	Lunch at de La Guerra Dining Commons
12:30 PM to 2:30 PM	Matthias Scheffler, FHI, Berlin and UC Santa Barbara
	"ab initio kinetic Monte Carlo"
2:45 PM to 5:15 PM	Campus Tour
5:45 PM to 7:15 PM	Dinner at de La Guerra Dining Commons
7:00 PM to 9:30 PM	Dessert and Introductions at UCSB Multicultural Center

Tuesday, August 15

Time	Speaker and Title
8:30 AM	Continental Breakfast, Meeting Room ESB 1001
9:00 AM to 11:00 AM	Tony Cheetham, Director, International Center for Materials Research (ICMR)
	"The Evolution of Shape Selective Catalysts through the Zeolites and AIPOs"
11:30 AM to 1:00 PM	Lunch at de La Guerra Dining Commons
1:00 PM to 3:00 PM	Song-I Han, UC Santa Barbara
	"Electron Paramagnetic Resonance: Basics and Electron Paramagnetic Resonance: Application to Inorganic Materials."
3:00 PM to 3:15 PM	Break
3.00 F W to 3.13 F W	Wilson Ho, UC Irvine
3:15 PM to 5:15 PM	"Single Molecule STM and Surface Photochemistry"
5:45 PM to 7:15 PM	Dinner at de La Guerra Dining Commons

Wednesday, August 16

Time	Speaker and Title
8:30 AM	Continental Breakfast, Meeting Room ESB 1001
9:00 AM to 11:00 AM	Jens Norskov, Technical University of Denmark
	"Surface Reactivity and Heterogeneous Catalysis"

11:30 AM to 1:00 PM	Lunch at de La Guerra Dining Commons
1:00 PM to 3:00 PM	Chuck Peden, Pacific Northwest National Laboratory
	"Surface Science Studies of Catalytic Vehicle Emission Control"
3:00 PM to 3:15 PM	Break
3:15 PM to 5:15 PM	Jeroen van Bokhoven, ETH, Swiss Federal Institute of Technology
	"Structure of heterogeneous catalysts using X-ray absorption spectroscopy"
5:45 PM to 7:15 PM	Dinner at de La Guerra Dining Commons
7: 00 PM	Karaoke: UCSB Multicultural Center

Thursday, August 17

Time	Speaker and Title
8:30 AM	Continental Breakfast, Meeting Room ESB 1001
	Masatake Haruta, Osaka National Research Institute (ORNI), Japan
9:00 AM to 11:00 AM	"Modern Alchemy: Catalysis by Gold Nano-particles"
11:30 AM to 1:00 PM	Lunch at de La Guerra Dining Commons
	Bob Maughon, Dow Chemical, "Redefining Feedstocks for the Chemical Industry:
1:00 PM to 3:00 PM	Opportunities and Challenges for Catalysis"
	Karen Smith-Pilkington, Managing Director, Management Savvy
3:00 PM to 3:15 PM	Break
3:15 PM to 4:15 PM (DW)	David Wong, Chairman and CEO, D2 Technologies
4:15 PM to 5:15 PM (Disc)	Group Discussion, Moderator: Gary Hansen, UCSB Technology Management
5:45 PM to 7:15 PM	Dinner at de La Guerra Dining Commons

Friday, August 18

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Time	Speaker and Title
8:30 AM	Continental Breakfast, Meeting Room ESB 1001
9:00 AM to 10:00 AM	Dean Martin Moskovits, College of Letters and Science, UC Santa Barbara
10:00 AM to 11:00 AM	Xinhe Bao, Dalian Institute of Chemical Physics, Dalian, P.R. China
	"1. Introduction to Dalian Institute of Chemical Physics. 2. Concept and Practice of
	Nano Catalysis"
11:30 PM to 12:30 PM	Lunch at de La Guerra Dining Commons
12:30 PM to 2:30 PM	Ron Shen, UC Berkeley
	"Surface-Specific Sum-Frequency Spectroscopy: Basic Principles and Applications"
2:45 PM to 5:30 PM	Poster Session:
	Material's Research Laboratory, Ground Floor Breezeway, ICMR
7:00 PM meet on campus	Dinner at El Paseo in Downtown Santa Barbara
for dinner at 7:30 PM	

PIRE-ECCI/ICMR Summer School Program Monday, August 14 through Friday, August 25, 2006

Monday, August 21

Time	Speaker and Title
8:30 AM	Continental Breakfast, Meeting Room ESB 1001
8:45 AM to 10:45 AM	Horia Metiu, UC Santa Barbara
10:45 AM to 11:45 AM	Rick Wormsbecker, W. R. Grace
11:45 AM to 1:00 PM	Lunch at de La Guerra Dining Commons
1:00 PM to 3:00 PM	Daniel Auerbach, Hitachi Global Storage Technologies
	"Molecular Beam Scattering as a Probe of Surface Chemical Dynamics"
3:00 PM to 3:15 PM	Break
3:15 PM to 5:15 PM	Alec Wodtke, UC Santa Barbara
	"Experimental Approaches To Optically Pumping Molecules For Beam/Surface
	Scattering Studies"
5:45 PM to 7:15 PM	Dinner at de La Guerra Dining Commons

Tuesday, August 22

Time	Speaker and Title
8:00 AM	Continental Breakfast, Meeting Room ESB 1001
9:00 AM to 9:30 AM	Xinhe Bao, Dalian Institute of Chemical Physics, Dalian, P.R. China

	"Overview of the DICP"
9:30 AM to 10:30 AM	Wei-Xue Li, Dalian Institute of Chemical Physics
	"Oxidation of Transition Metal Surfaces and the Effect on Catalysis"
10:30 AM to 11:30 AM	Xiulian Pan, Dalian Institute of Chemical Physics
	"Direct catalytic conversion of methane"
11:30 AM to 1:00 PM	Lunch at de La Guerra Dining Commons
1:00 PM to 3:00 PM	Al Stiegman, Florida State University
	"Vibration Spectra of Supported Catalysts"
3:00 PM to 3:15 PM	Break
3:15 PM to 5:15 PM	Brad Chmelka, UC Santa Barbara
	"NMR Applications To Catalysis Research: Characterizing Solid Catalysts, Or Using
	NMR To Monitor Catalytic Reactions; Use Of In Situ And Flow Techniques"
5:45 PM to 7:15 PM	Dinner at de La Guerra Dining Commons

Wednesday, August 23

Time	Speaker and Title
8:30 AM	Continental Breakfast, Meeting Room ESB 1001
9:00 AM to 11:00 AM	Juergen Eckert, UC Santa Barbara
	"Applications Of Neutron Scattering Methods In Heterogeneous Catalysis"
11:30 AM to 1:30 PM	Lunch at de La Guerra Dining Commons
1:30 PM to 2:30 PM (SG)	Steve Golden, Catalytic Solutions, Inc.,
2:30 PM to 3:30 PM (MG)	"Materials Science in the World of Catalysis: Technology to Business"
	Marcos Gomez, BASF,
	"Innovation At The Chemical Company, Challenges and New Perspectives"
3:30 PM to 3:45 PM	Break
3:45 PM to 4:00 PM (RN)	Richard Nader, East Asia and Pacific Program, National Science Foundation
4:00 PM to 4:45 PM (EMcF)	Eric McFarland, GRT and UC Santa Barbara
	"Methane Activation: A Grand Challenge in Surface Chemistry"
4:45 PM to 5:45 PM (Disc)	Group Discussion, Moderator: Gary Hansen, UCSB Technology Management
5:45 PM to 7:15 PM	Dinner at de La Guerra Dining Commons

Thursday, August 24

Time	Speaker and Title
8:30 AM	Continental Breakfast, Meeting Room ESB 1001
9:00 AM to 11:00 AM	Bas Hendriksen, Lawrence Berkeley National Laboratory
	"The Use Of STM To Study Catalysis"
11:30 AM to 1:00 PM	Lunch at de La Guerra Dining Commons
1:00 PM to 3:00 PM	Susannah Scott, UC Santa Barbara
	"Probing Functionality on Solid Catalysts and Catalyst Supports by Chemisorption"
3:00 PM to 3:15 PM	Break
3:15 PM to 4:15 PM	Steve Buratto, UC Santa Barbara
	"Size-Selected Au and Ag Nanoclusters on TiO2: Cluster Shapes and Binding Sites
	Probed by UHV-STM"
5:45 PM to 7:15 PM	Dinner at de La Guerra Dining Commons

Friday, August 25

Filday, August 25	
Time	Speaker and Title
8:30 AM	Continental Breakfast, Meeting Room ESB 1001
9:00 AM to 11:00 AM	John Vohs, University of Pennsylvania
	"X-ray Photoelectron Spectroscopy: Theory, Instrumentation, and Applications in
	Catalysis"
11:30 AM to 1:00 PM	Lunch at de La Guerra Dining Commons
1:00 PM to 3:00 PM	D. Wayne Goodman, Texas A&M University
	"Catalysis by Au and Au alloys"
3:00 PM to 3:15 PM	Break
3:15 PM to 5:00 PM	Alec Wodtke/Tony Cheetham, UC Santa Barbara
	Sam Fleischman and Rob Savinelli, PIRE-ECCI Program Participants in China
	Close
5:30 PM to 7:30	BBQ Dinner at the Beach

Saturday, August 26: Depart PIRE-ECCI/ICMR Conference