Workshop on Catalysis and Surface Science Hotel MarMonte, Santa Barbara CA, 13-15 December 2006

Wednesday, December 13				
7:30 am	breakfast buffet			
	ons: Chair, Horia Metiu			
8:00 am	Mike Bowers	Size Selected Cationic Gold and Silver Clusters (n = 3 to 13) in the Gas Phase:		
0.55	UCSB	Structures and Ligand Binding Energies. Approach to the Bulk.		
8:55 am	Steve Buratto	Mass Selected Ag and Au Clusters on TiO ₂		
9:50 am	UCSB break			
10:05 am	Masatake Haruta	Active Sites in Catalysis by Gold		
	Tokyo Metropolitan	Active sites in Catalysis by Gold		
	University			
11 am	J. M. (Mike) White	Surface Chemistry on Rutile TiO ₂ (110)		
	Pacific Northwest National	Surface Chemistry on Ruthe 1102(110)		
	Laboratory and UT Austin			
	Datoratory and OT Hustin			
		lunch (Vista Room)		
	sions: Chair, Gianfranco Pacchioni			
2:00 pm	Jose Rodriguez	Water-Gas Shift Reaction on Cu and Au Nanoparticles Dispersed on Oxides:		
	Brookhaven National	Intrinsic Activity and Importance of Support Interactions		
	Laboratorty			
2:55 pm	Johannes A. Lercher	Elementary Steps in Acid Catalyzed Alkane Conversions		
	Technical University of			
	Munich			
3:50 pm	break			
4:05 pm	Enrique Iglesia	Catalytic Activation of Methane on Small Metal Clusters: Structural		
5.00.5.20	UC Berkeley	Requirements and Reaction Pathways		
5:00-5:30 pm	general discussion			
• /	December 14			
7:30 am	breakfast buffet			
Morning session	ons: Chair, Steve Buratto			
8:00 am	Horia Metiu	Doped Oxides: A Possible New Class of Oxidation Catalyst		
	UCSB	The state of the s		
8:55 am	M. S. Hegde	Noble Metal (M) Ions and Oxide Ion Vacancies as Active Sites in $Ce_{1-x}M_xO_{2-\delta}$,		
	Indian Institute of Science,	$Ti_{1-x}M_xO_{2-\delta}$ and $Ce_{1-x-y}Ti_xM_yO_{2-\delta}$: New Generation Redox Catalysts		
	Bangalore			
9:50 am	break			
10:05 am	Hajo Freund	Model Systems for Heterogeneous Catalysts based on Thin Oxide Films		
	Chemical Physics Department,	,		
	Fritz Haber Institute, Berlin			
11 am	Gianfranco Pacchioni	Theory of Oxide Surfaces: From Supported Metals to Photocatalysis		
	University of Milan			
		lunch (Vista Room)		
A C:				
	sions: Chair, Charlie Campbell	W' ' CDI ' C C D ' 14 D 1 CY 1Y '		
2:00 pm	Hans Niemantsverdriet	Kinetics of Elementary Surface Reactions and the Role of Lateral Interactions		
	Eindhoven University of	between Adsorbates		
2.55	Technology Matthias Schoffler	Very Theoretical and Alexantheric New Jordan Dundler's No. 1 12 C.C. C.		
2:55 pm	Matthias Scheffler	Key Theoretical and Algorithmic Needs for Predictive Modeling of Surface		

	Theory Department, Fritz Haber Institute, Berlin, and UCSB	Chemistry and Catalyis
3:50 pm	break	
4:05 pm	Lanny D. Schmidt University of Minnesota	Catalysis Issues for Renewable Fuels and Chemicals
5:00-5:30 pm	general discussion	
Friday, Dece	ember 15	
7:30 am	breakfast buffet	
Morning session	s: Chair, Bruce Gates	
8:00 am	Charlie Campbell University of Washington	Thermodynamics of Surface Oxides and Metals Adsorbed on Oxides
8:55 am	Jingguang Chen University of Delaware	Predicting Electronic and Chemical Properties of Monolayer Bimetallic Surfaces
9:50 am	break	
10:05 am	Gerard Meijer Molecular Physics Department, Fritz Haber Institute, Berlin	Infrared Spectroscopic Characterization of Clusters and Cluster Complexes
11 am	Eric McFarland UCSB	Multifunctional Catalytic Systems: Applications to Methane Activation and Photocatalysis
Afternoon session	ons: Chair, Hajo Freund	lunch (Vista Room)
2:00 pm	Bruce Gates	Molecular Catalysis on Porous Oxide and Zeolite Surfaces
2.00 pm	UC Davis	instruction of the state of the
2:55 pm	Susannah Scott UCSB	Reversible Precious Metal Incorporation in Perovskite Catalysts
3:50 pm	break	
4:05 pm	Robert Schlögl Inorganic Chemistry Department, Fritz Haber Institute, Berlin	How Copper Develops from a Bulk Metal into an Active Catalyst for C1 Chemistry