



TECHNICAL PROGRAM

Monday: October 13, 2014	
14:00 – 17:00	Check-in and badge pickup – Fred Farr Room
17:00 – 18:00	Welcome reception – Fred Farr Room

Tuesday: October 14, 2014			
7:30 - 8:50	Breakfast – Crocker Dining Hall		
Tuesday (am) – Fred Farr Room		Ultrafast dynamics	
Session chair: Micha Asscher			
8:50 - 9:00	Opening Remarks		
9:00 - 9:35	Invited	K. Ishioka	Carrier-phonon Dynamics at GaP/Si(001) Interfaces
9:35 - 10:10	Invited	H. Petek	Multi-dimensional, multi-photon photoemission at metal surfaces: Evidence for excitons and polaritons
10:10 - 10:35		J. Stähler	Instantaneous band gap collapse in photoexcited monoclinic VO ₂ due to photocarrier doping
10:35 - 11:00	Break		
11:00 - 11:35	Invited	R. Ernstorfer	Femtosecond low-energy electrons probing currents and atomic structure in nanomaterials
11:35 - 12:00		N. Tolk	High resolution depth-dependent materials characterization and non-thermal materials modification using ultrafast laser pump-probe techniques
12:00 - 1:00	Lunch – Crocker Dining Hall		

Tuesday (pm) – Fred Farr Room		Nanoparticles dynamics & chemistry	
Session chair: Wayne Hess			
15:40 - 16:15	Invited	G. Somorjai	Hot electron Surface Chemistry at Oxide-Metal Interfaces: The foundation of Acid-Base Catalysis
16:15 - 16:50	Invited	S. Linic	TBD
16:50 - 17:10	Break		
17:10 - 17:35		P. Christopher	Controlling catalytic selectivity on metal nanoparticles by direct photoexcitation of adsorbate-metal bonds
17:35 - 18:00		B. Bourguignon	Size effects on electronic excitation of molecules bonded to metallic nanoparticles
20:00 - 22:00	Poster Session #1 – Kiln Room		



Wednesday: October 15, 2014			
7:30 - 8:35	Breakfast – Crocker Dining Hall		
Wednesday (am) – Fred Farr Room		Astrochemistry	
Session chair: Greg Kimmel			
8:35 - 9:00		N. Petrik	Distance – dependent radiation chemistry: Oxidation versus hydrogenation of CO in layered H ₂ O/CO/H ₂ O ices
9:00 - 9:35	Invited	K. Öberg	Desorption, diffusion and chemistry in interstellar ices
9:35 - 10:00		C. Bennett	Space Weathering Processes throughout the Inner and Outer Solar System
10:00 - 10:25		E. Fayolle	VUV photon-stimulated desorption of astrophysically relevant ices
10:25 - 10:50	Break		
			History of DIET
10:50 - 11:25	Invited	W. Gadzuk	History of DIET: 50 years beyond MGR
11:25 - 12:00	Invited	D. Menzel	From MGR to MNP: My half century of DIET
12:00 - 1:00	Lunch – Crocker Dining Hall		

Wednesday (pm) – Fred Farr Room		Plasmonics & Nanoplasmonics	
Session chair: Patrick El-Khoury			
15:40 - 16:15	Invited	C. Wöll	IRRAS on Metal Oxide Single Crystals: Molecular Vibrations and Beyond
16:15 - 16:40		M. Asscher	Plasmonic nanostructures induced surface photochemistry
16:40 - 17:00	Break		
17:00 - 17:35	Invited	M. Raschke	Nano-focused spectroscopy reaching the single quantum level: Imaging structure, function, and dynamics on the nano-scale
17:35 - 18:00		G. Dujardin	Electrical nanosource of surface plasmons using inelastic electron tunneling
20:00 - 22:00	Poster Session #2 – Kiln Room		



Thursday: October 16, 2014			
7:30 - 8:35	Breakfast – Crocker Dining Hall		
Thursday (am) – Fred Farr Room		Spatially-resolved dynamics	
Session chair: Richard Palmer			
8:35 - 9:00		S. Holmes	Hole-induced nonlocal desorption of chlorobenzene from Si(111)-7x7 in the STM
9:00 - 9:35	Invited	E. C. H. Sykes	Exploding Atoms and Molecules: An Atomic-scale View of Radioactive Films and Autocatalytic Surface Reactions
9:35 - 10:00		J. Polanyi	The Dynamics of Surface Recoil and Reaction, Induced by Electronic Transitions
10:00 - 10:25		S. Y. Guo	Dynamics of Repulsion-Induced Surface-Migration by Ballistics and Bounce
10:25 - 10:50	Break		
10:50 - 11:25	Invited	J. P. Gauyacq	Magnetic excitations induced by tunnelling electrons
11:25 - 12:00	Invited	T. Komeda	Spin Control of Magnetic Molecules with Scanning Tunneling Microscopy
12:00 - 1:00	Lunch – Crocker Dining Hall		

Thursday (pm) – Fred Farr Room			
Session chair: Charlie Sykes			
15:40 - 16:15	Invited	G. Nathanson	Creation and Reaction of Solvated Electrons at and near the Vacuum-Glycerol and Diamond-Water Interfaces
16:15 - 16:40		W. Hess	Desorption of Br atoms from CsBr films grown on LiF, KBr and Cu
16:40 - 17:00	Break		
17:00 - 17:35	Invited	C. Campbell	Thermodynamics and kinetics of elementary reaction steps on solid surfaces
17:35 - 18:00		R. Palmer	Atomic dynamics of size-selected gold nanoclusters deposited on surfaces

Friday: October 17, 2014			
7:30 - 8:45	Breakfast – Crocker Dining Hall		
Friday (am) – Fred Farr Room		Dynamics at oxide, semiconductor and insulating surfaces	
Session chair: Nick Petrik			
8:45 - 9:10		P. El-Khoury	Vibronic Raman Scattering at the Quantum Limit of Plasmons
9:10 - 9:45	Invited	B. Wang	Reactivity of A-TiO ₂ (001) and R-TiO ₂ (110) surfaces
9:45 - 10:10		G. Kolesov	Methoxy photo-oxidation on rutile TiO ₂ surface : excited-state non-adiabatic dynamics study
10:10 - 10:35		S. Ptasinska	Interfacial chemistry of water interaction with GaAs (100)
10:35 - 11:00	Break		
11:00 - 11:25		M. Waegele	Revealing the Kinetics of the First Step in Photocatalytic Water Oxidation through a Tunable Surface Potential
11:25 - 11:50		L. Amiaud	Low energy electron (0-50 eV) induced chemistry in aromatic self-assembled monolayer on gold
11:50 - 12:00	Closing Remarks		
12:00 - 1:00	Lunch – Crocker Dining Hall		