

UCSB-MPG Workshop on Inorganic Materials for Energy Conversion, Storage and Conservation
 UCLA Lake Arrowhead Conference Center
 February 19 - 22, 2008

Tuesday, February 19, 2008	
6:30 - 8:00	Dinner
8:00 - 8:30	Chris Van de Walle, UCSB <i>Role of defects in kinetics of hydrogen storage materials</i>
8:30 - 9:00	Martin Stratmann, MPI Düsseldorf <i>Tailored oxides for controlling ionic mobility at buried interfaces</i>
Wednesday, February 20, 2008	
8:00 - 8:30	Breakfast
9:00 - 9:30	Joachim Maier, MPI-FKF Stuttgart <i>Advanced Materials for Electrochemical Energy Conversion and Storage</i>
9:30 - 10:00	Sossina Haile, Caltech <i>Proton Conducting Oxides for Fuel Cell Applications</i>
10:00 - 10:30	Clare Grey, SUNY Stonybrook <i>Optimizing Materials for Battery and Fuel Cell Applications: NMR, Diffraction and Electrochemical Studies</i>
10:30 - 11:00	Break
11:00 - 11:30	Jeff Long, UC Berkeley <i>Hydrogen Storage in Microporous Metal-Organic Frameworks with Exposed Metal Sites</i>
11:30 - 12:00	Alec Wodtke, UCSB <i>Obtaining an atomistic understanding of surface chemistry</i>
12:00 - 3:30	Break - lunch served at noon
3:30 - 4:00	Joachim Sauer, Humboldt University Berlin <i>Synthesis and conversion of hydrocarbons - Ab initio studies of elementary steps</i>
4:00 - 4:30	Susannah Scott, UCSB <i>Low surface area perovskite catalysts containing precious metal cations</i>
4:30 - 5:00	Robert Schlögl, Fritz Haber Institute Berlin <i>Copper in C1 Chemistry</i>
5:00 - 5:30	Break
5:30 - 6:00	Horia Metiu, UCSB <i>Oxidation catalysis by atomic size centers on oxide surfaces</i>
6:00 - 6:30	Reinhard Schomäcker, TU Berlin <i>Catalysts for Conversion of Methanol and Ammonia to Hydrogen</i>
6:30 - 8:00	Dinner
8:00 - 10:00	Poster Session
Thursday, February 21, 2008	
8:00 - 8:30	Breakfast
9:00 - 9:30	Martin Jansen, MPI-FKF Stuttgart <i>Highly Durable Si-B-N-C Ceramics: Paving the Way to Industrial Scale Production</i>
9:30 - 10:00	Yuri Grin, MPI Dresden <i>Redox reactions on intermetallic compounds</i>
10:00 - 10:30	Mercouri Kanatzidis, Northwestern <i>Nanostructured thermoelectrics for Energy Conversion: A New Paradigm?</i>
10:30 - 11:00	Break
11:00 - 11:30	Frank DiSalvo, Cornell <i>Fuel cell catalysts and catalyst supports</i>
11:30 - 12:00	Fred Lange, UCSB <i>Growth of Epitaxial Films and Structures in Water at 90C</i>
12:00 - 5:30	Break - lunch served at noon

5:30 - 6:00	Jörg Neugebauer, MPI Düsseldorf <i>Ab initio design of engineering materials: Status und challenges</i>
6:00 - 6:30	Galen Stucky, UCSB <i>Inorganic interfaces for energy storage and conversion</i>
6:30 - 8:00	Dinner
8:00 - 8:30	Johannes Lercher, TU Munich <i>Catalytic activation of hydrocarbons in confined spaces</i>
8:30 - 9:00	Steve DenBaars, UCSB <i>GaN Based Semiconductor Materials and Devices for Energy Efficient Solid State Lighting</i>
Friday, February 22, 2008	
8:00 - 8:30	Breakfast
9:00 - 9:30	Susan Kauzlarich, UC Davis <i>Tuning of the High Temperature Thermoelectric Properties for the Zintl Phase: Yb₁₄MnSb₁₁</i>
9:30 - 10:00	Hartmut Zohm, MPI-IPP Garching <i>First wall materials in Nuclear Fusion Research</i>
10:00 - 10:30	Break
10:30 - 11:00	Martin Muhler, U Bochum <i>Carbon Nanotubes Tuned as Support for Fuel Cell Catalysts</i>
11:00 - 11:30	Nicola Spaldin, UCSB <i>New routes to electric-field control of magnetism</i>
12:00	Lunch