5TH UNIVERSITY OF CALIFORNIA SYMPOSIUM ON SURFACE SCIENCE AND ITS APPLICATIONS
JUNE 18, 2008 THROUGH JUNE 20, 2008

University of California at Santa Barbara
1601 Elings Hall, California NanoSystems Institute (CNSI)

PROGRAM
Wednesday, June 18, 2008

7:45 – 8:15a.m. Continental Breakfast
8:15 – 8:20 a.m. Opening Remarks and Announcements by Horia Metiu
1601 Elings Hall

SESSION CHAIR: STEVEN K. BURATTO

8:20 – 9:10 a.m. Steve Bernasek, Princeton University
“Organic Monolayers in Organic Electronic Devices”
9:10 – 10:00 a.m. Horia Metiu, UC Santa Barbara
“Catalysis on atomic-sized centers”
10:00 – 10:30 a.m. Break
10:30 – 11:20 p.m. Richard Lambert, University of Cambridge
“Recent Work on Self Assembly of Discrete Structures and on Enantioselective Catalysis”
11:20 – 12:10 p.m. Wilson Ho, UC Irvine
“Single Molecule Optical Spectroscopy Requiring Large Background”
12:10 – 2:00 p.m. Lunch
Elings Hall

SESSION CHAIR: MICHAEL BOWKER

2:00 – 2:50 p.m. Alec Wodtke, UC Santa Barbara
“Born-Oppenheimer Breakdown at the Gas-Solid Interface”
2:50 – 3:40 p.m. Robert J. Madix, Stanford University
“Structure Sensitivity in the Epoxidation of Styrene on Silver Single Crystals”
3:40 – 4:10 p.m. Break
4:10 – 5:00 p.m. Eric McFarland, UC Santa Barbara
“Design and Synthesis of Optimized Material Systems and Structures for Photoelectrocatalytic Production of Chemicals and Fuels From Sunlight”
5:00 – 5:50 p.m. Lanny Schmidt, University of Minnesota
“Catalytic autothermal reforming of biomass”
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PROGRAM
Thursday, June 19, 2008

7:45 – 8:15 a.m. Continental Breakfast
8:15 – 8:20 a.m. Announcements by Horia Metiu
                 1601 Elings Hall

SESSION CHAIR: STEVE BERNASEK

8:20 – 9:10 a.m. Daniel Auerbach, Gas Reaction Technologies (GRT), Inc.
                 “A new bromine based gas to liquids technology:
                 catalysis and materials challenges”
9:10 – 10:00 a.m. Hrvoje Petek, University of Pittsburgh
                  “The charge-lattice coupling at a photocatalytic interface”
10:00 – 10:30 a.m. Break
10:30 – 11:20 a.m. Costas G. Vayenas, University of Patras
                   “Electrochemical and Chemical Promotion of Catalysis”
11:20 – 12:10 p.m. Xi Chen, Tsinghua University
                   “Probing the spin state at the single atomic/molecular level by STM”
12:10 – 2:00 p.m. Lunch
                   Elings Hall

SESSION CHAIR: ALEC WODTKE

2:00 – 2:50 p.m. Joachim Sauer, Humboldt University of Berlin
                 “Structure and Reactivity of Oxides:
                 Gas Phase Species, Surfaces, Thin Films, Supported Catalysts”
2:50 – 3:40 p.m. Thomas Bligaard, Technical University of Denmark
                 “Informatics in materials design”
3:40 – 4:10 p.m. Break
4:10 – 5:30 p.m. POSTER SESSION
                 Main Lobby, First Floor, Elings Hall
PROGRAM
Friday, June 20, 2008

7:45 – 8:15 a.m.   Continental Breakfast

8:15 – 8:20 a.m.   Announcements by Horia Metiu
                   1601 Elings Hall

SESSION CHAIR: COSTAS G. VAYENAS

8:20 – 9:10 a.m.   Johannes Lercher, Technical University of Munich
                   “Elementary steps in alkane activation on oxide catalyst”

9:10 – 10:00 a.m.  Gianfranco Pacchioni, University of Milan-Bicocca
                   “Ultrathin Oxide Films: New Materials at the Nanoscale
                   with Unprecedented Properties”

10:00 – 10:30 a.m. Break

10:30 – 11:20 a.m. Michael Bowker, Cardiff University
                   “Surface Science Investigations of the Selective Oxidation of Methanol”

11:20 – 12:10 p.m. Steven K. Buratto, UC Santa Barbara
                    “A Catalysis Informatics Approach for Hydrogenation Reactions”

12:10 – 2:00 p.m.   Lunch
                    Elings Hall

SESSION CHAIR: THOMAS BLIGAARD

2:00 – 2:50 p.m.   Leon Lefferts, University of Twente
                   “Heterogeneous Catalysis in Liquid Phase; Fundamental
                   and Engineering Challenges”

2:50 – 3:40 p.m.   Galen Stucky, UC Santa Barbara
                    “The synthesis and use of nanophase heterostructures
                    and interfaces in catalysis”

3:40 – 4:10 p.m.   Break

4:10 – 5:00 p.m.   Stefan Wendt, University of Aarhus
                    “O vacancies versus Ti interstitials:
                    Searching for the Origin of the Defect State in the Band Gap of Titania”

5:00 – 5:50 p.m.   Wayne Goodman, Texas A&M University
                    “Reactivity Trends in CO oxidation from UHV to Elevated Pressures:
                    Never Mind the Gap”
University of California at Santa Barbara
1601 Elings Hall, California NanoSystems Institute (CNSI)

MEETING LOCATION

All sessions of the symposium will be held in Elings Hall, Room 1601.

The room is located on the first floor of Elings Hall near the main entrance of the UCSB campus.