

Friday, May 5, 2006

09:00 – 09:15 Opening and Welcome

Chair: Prof. Dr. Peter Hofmann

09:15 – 09:45 Prof. Dr. Robert G. **Bergman**

Department of Chemistry, University of California, Berkeley

"Selective Stoichiometric and Catalytic Organic and Organometallic Reactions in Water-Soluble Host-Guest Media"

09:45 – 10:15 Prof. Dr. SonBinh T. **Nguyen**

Department of Chemistry and the Institute for Environmental Catalysis, Northwestern University, Evanston

"Aluminum-based catalytic oxidation reduction - manipulation of C=O bonds using two faces of the MSVPO reaction manifold"

10:15 – 10:35 Prof. Dr. Sven **Doye**

Organisch-Chemisches Institut, Universität Heidelberg

"Group-IV Metal Complexes as Hydroamination Catalysts"

10:35 – 11:00 Coffee Break

11:00 – 11:30 Prof. Dr. Lutz H. **Gade**

Anorganisch-Chemisches Institut, Universität Heidelberg

"Modular Strategies in Oxazoline Ligand Design: Applications in Homogeneous Catalysis"

11:30 – 12:00 Daniel **Ruddy**

Department of Chemistry, University of California, Berkeley

"Influence of Surface Modification of Ta/SBA15 Catalysts on the Epoxidation of Olefins with Aqueous Hydrogen Peroxide"

12:00 – 12:20 Priv.-Doz. Dr. Markus **Enders**

Anorganisch-Chemisches Institut, Universität Heidelberg

"Catalytic Transformations with Metal Complexes of (hemilabile) Quinoyl-Cyclopentadienyl Ligands"

12:20 – 14:00 Lunch

Friday, May 5, 2006

Chair: Prof. Dr. Lutz H. Gade

- 14:00 – 14:30** Prof. Dr. Harold H. **Kung**
Department of Chemical and Biological Engineering, Northwestern University, Evanston
"Synthesis strategy for new catalytic materials"
- 14:30 – 15:00** Prof. Dr. Peter **Comba**
Anorganisch-Chemisches Institut, Universität Heidelberg
"Oxygen Activation with High Valent Non-Heme Iron Compounds"
- 15:00 – 15:30** Ian C. **Stewart**
Department of Chemistry, University of California, Berkeley
"Ruthenium Phosphido Complexes: Synthesis, Reactivity & Catalytic Applications"
- 15:30 – 16:00** **Coffee Break**
- 16:00 – 16:30** Prof. Dr. Peter **Hofmann**
Organisch-Chemisches Institut, Universität Heidelberg
"Controlling Isomer Ratios in Arene Substitution: A Fascinating Mechanistic Chapter of Large Scale Industrial Catalysis"
- 16:30 – 17:00** Prof. Dr. Michael J. **Bedzyk**
Department of Materials Science & Engineering, Northwestern University, Evanston
"Atomic-scale in-situ X-ray studies of oxide supported catalytic processes"
- 17:00 – 17:20** Michael **Nonnenmacher**
Organisch-Chemisches Institut, Universität Heidelberg
"Mono- and Dipyrido Annelated *N*-Heterocyclic Carbenes, their Metal Complexes and first Catalytic Applications"
- 19:00 – 22:00** **Postersession (Lecture Hall of the Chemical Institute)**

Saturday, May 6, 2006

Chair: Prof. Dr. Günter Helmchen

- 08:30 – 09:00** Prof. Dr. Tobin J. **Marks**
Department of Chemistry, Northwestern University, Evanston
"Design of Multiple Nuclearity Polymerization Catalysts. Bridges between Heterogeneous and Homogeneous Catalysis"
- 09:00 – 09:30** Prof. Dr. T. Don **Tilley**
Department of Chemistry, University of California, Berkeley
"Bond Activations and Catalytic Transformations Involving Transition Metal-Silicon Systems"
- 09:40 – 10:00** Prof. Dr. Horst **Köppel**
Physikalisch-Chemisches Institut, Universität Heidelberg
"A quantum dynamical investigation of olefin-insertion and hydrogen elimination in two late transition-metal complexes"
- 10:00 – 10:20** Dr. Helga **Szelke**
Anorganisch-Chemisches Institut, Universität Heidelberg
"Bioinspired phosphoryl transfer catalysts"
- 10:20 – 10:40** Dr. Dirk-Peter **Herten**
Physikalisch-Chemisches Institut, Universität Heidelberg
"Investigation of Molecular Catalysis by Single Molecule Fluorescence Spectroscopy"
- 10:40 – 11:00** **Coffee Break**
- 11:00 – 11:30** Prof. Dr. Andres **Jäschke**
Institut für Pharmazie und Molekulare Biotechnologie, Universität Heidelberg
"Nucleic Acids as catalysts and sensors"
- 11:30 – 12:00** Kristine **Nolin**
Department of Chemistry, University of California, Berkeley
"Reversing the Role of the Metal-Oxygen π Bond: Re(V)Oxo Catalyzed Hydrosilylations"
- 12:00 – 12:30** Prof. Dr. Peter C. **Stair**
Department of Chemistry, Northwestern University, Evanston
"Nanostructured Membrane Catalysis"
- 12:30 – 13.30** **Lunch**

Saturday, May 6, 2006

Chair: Prof. Dr. Andres Jäschke

- 13:30 – 14:00** Prof. Dr. Thomas J. J. **Müller**
Organisch-Chemisches Institut, Universität Heidelberg
"Transition Metal Catalysis as An Entry to Sequential and Domino Transformations"
- 14:00 – 14:30** Prof. Dr. Joseph T. **Hupp**
Chemistry Department, Northwestern University, Evanston
"Supramolecular Assemblies for Oxidative Catalysis"
- 14:45 – 15:15** Prof. Dr. Günter **Helmchen**
Organisch-Chemisches Institut, Universität Heidelberg
"Iridium-Catalyzed Allylic Substitutions - Method Development and Applications in Natural Products Synthesis"
- 15:15 – 15:45** Prof. Dr. F. Dean **Toste**
Department of Chemistry, University of California, Berkeley
"C-C Bond Formation Catalyzed by Gold(I) Complexes"
- 15:45** **Closing remarks, social get-together and coffee at the foyer**