



SFB 624 & SFB 623

“Templates meet Catalysis”

Workshop on June, 7th - 8th 2004



Programme

Monday, June 7th 2004

10.00 – 10.30 Opening and Welcome

Prof. Dr. Karl Heinz Dötz, SFB Chair
Prof. Dr. Wolfgang Hess, Prorektor
Prof. Dr. Armin B. Cremers, Prodekan

Chair: Prof. Dr. Peter Hofmann

10.30 – 11.30 Key Note Lecture
Prof. Dr. Daryle H. **Busch**, Kansas, USA
"Metal Ions – The Movers and Shakers of the Nanocosm: a Journey from
Templates to Catalysis"

11.30 – 12.00 Prof. Dr. Edgar **Niecke**, Bonn
"Phosphorus Containing Macrocycles with Discriminative Functionality
and Redox Activity by Template Directed Donor/Acceptor Interactions"

12.00 – 12.30 Prof. Dr. Michael **Dolg**, Cologne
"Quantum Chemical Study of the Haptotropic Rearrangement"

12.30 – 14.00 *Lunch*

Chair: Prof. Dr. Andreas Gansäuer

14.00 – 14.45 Prof. Dr. Peter **Hofmann**, Heidelberg
"New Catalysts for an Old Reaction: Towards Rational Ligand Design in
Hydroformylation"

14.45 – 15.20 Prof. Dr. Lutz **Gade**, Heidelberg
"Modular Strategies in Oxazoline Ligand Design: Applications in
Homogeneous Catalysis"



- 15.20 – 15.50 *Coffee break*
- Chair: Prof. Dr. Roland Krämer*
- 15.50 – 16.30 Prof. Dr. Eckhard **Dinjus**, Karlsruhe
"Polycarbonates from Epoxides and CO₂ - New Catalysts and Process Development"
- 16.30 – 17.10 PD Dr. Christoph A. **Schalley**, Bonn
"Killing Two Birds with One Stone: Controlling Molecular Shuttles via Functional Groups Mediating the Templated Synthesis of [2]Rotaxanes"
- 17.10 – 17.50 Prof. Dr. Joachim **Bargon**, Bonn
"Determination of the Template-Substrate Interaction Using Gravimetric Sensors"
- 17.50 – 20.00 *Dinner*
- 20.00 – 22.00 Postersession

Tuesday, June 8th 2004

Chair: Prof. Dr. Fritz Vögtle

- 9.00 - 9.40 Prof. Dr. Günter **Helmchen**, Heidelberg
"Mono- and Bidentate Ligands in Transition Metal Catalyzed Asymmetric Allylic Substitutions"
- 9.40 – 10.20 Prof. Dr. Janet **Blümel**, Heidelberg
"Immobilized Rhodium and Nickel Catalysts"
- 10.20 – 10.50 *Coffee break*
- Chair: Prof. Dr. Jürgen Wolfrum*
- 10.50 – 11.30 Prof. Dr. Moritz **Sokolowski**, Bonn
"Adsorption of Large Organic Molecules on Well Defined Surfaces to Study Template Effects"
- 11.45 – 12.10 Prof. Dr. Klaus **Wandelt**, Bonn
"Single Crystal Surfaces: Two-dimensional Templates for Periodic Nanostructures"
- 12.10 – 14.00 *Lunch*



Chair: Prof. Dr. Sigrid Peyerimhoff

14.00 – 14.40 Prof. Dr. Michael **Famulok**, Bonn
"Generation and Enzymatic Amplification of High-Density Functionalized DNA Double-Strands"

14.40– 15.20 Dr. Dirk-Peter **Herten**, Heidelberg
"Investigation of Catalytic Processes by Optical Single Molecule Spectroscopy - Characterization and Immobilization of DNA/PNA-Templates"

15.20 – 15.50 *Coffee break*

Chair: Prof. Dr. Karl Heinz Dötz

15.50 – 16.30 Prof. Dr. Andres **Jäschke**, Heidelberg
"Nucleic Acids as Tools in Synthesis"

16.30 – 17.30 Key Note Lecture
Prof. Dr Jeremy K. M. **Sanders**, Cambridge, UK
"Dynamic Combinatorial Chemistry: New Opportunities for Molecular Recognition and Catalysis"

Closing remarks

Prof. Dr. Karl Heinz Dötz

