

PROGRAMME

Wednesday, February 20th, 2013

14:30 Schwefelbrecher Elisenbrunnen

Institute of Organic Chemistry, 6th floor, seminar room

15:30 Welcome at Institute of Organic Chemistry IOC

16:00 Prof. Dr. Jun Okuda
Spokesperson SeleCa, RWTH Aachen

Chair: Markus Art Lectures 1

16:15 Prof. Anett Schallmey (Aachen)
Selective Catalysis with Cytochrome P450
Monooxygenases

17:00 Marina Szmerski (Münster)
Bioisosteric LpxC-Inhibitors: Enantioselective
synthesis and structure activity relationships of
benzyloxyacetic acid derivatives

17:20 Coffee Break 17:35

17:35 Manja Henze (Aachen)
Site-directed Mutagenesis of a β 1-3-Galactosidase
from *Bacillus circulans* to generate a Glycosynthase

17:55 Florian Hubrich (Freiburg)
Cinnamic acid derivatives as inhibitors for
chorismatases and isochorismatases

18:15 Dominik Bergmann (Münster)
Synthesis of stable isotopically labeled fumonisin B₁
standards and analysis of Fusarium-toxins in food

19:30 Dinner
Bar Last Exit

21:30 Aachen by Night

Thursday, February 21st, 2013

Youth Hostel Aachen

Chair: Manja Henze Lectures 2

08:30 Prof. Bernhard Breit (Freiburg)
Rhodium-Catalyzed Addition of Pronucleophiles to
Alkynes and Allenes

09:10 Rebekka Bohmann (Aachen)
Palladium-Catalyzed C-N Cross-Coupling of N'-
Monosubstituted Sulfonylimines

09:30 Fabian Weber (Freiburg)
Conformational Analyses of δ -Lactones by DFT
Calculations

09:50 Eva Koch (Münster)
Substituent Effect on the Stereospecific Palladium-
Catalyzed Decarboxylative C(sp³)-C(sp²) Coupling of
2, 5-Cyclohexadiene-1-carboxylic Acid Derivatives
with Aryl Iodides

10:10 Christoph Rosorius (Münster)
Formal CO to Formyl Reduction Using
Intramolecular P/B Frustrated Lewis Pairs

10:30 Coffee Break 10:45

Presentation by Industry

10:45 Dr. Michael Größ (Grünenthal GmbH)
Not just Chemistry – The Daily Business of a
Chemist in Pharmaceutical Process Development

11:15 Dr. Tim Hammerer
(Bayer Technology Services GmbH)
Bayer - Career opportunities in a global company

12:00 Mittagessen mit Unternehmensvertretern

Workshop Scale-Up

13:30 Dipl.-Ing Hanna Präfke (Aachen)
"Scale up - From laboratory scale to \$\$\$"

16:00 Coffee Break and Group picture 16:15

Chair: Kai Rohmann Lectures 3

16:15 Prof. Bart Jan Ravoo (Münster)
Microcontact chemistry: Surface reactions in
nanoscale confinement

17:00 Hannah Baars (Aachen)
Para-selective direct functionalization of
monosubstituted [2,2] paracyclophane amides and
related structures

17:20 Urs Gellrich (Freiburg)
Mechanistical studies of the Rhodium Catalyzed
Hydroformylation with Self Assembling Ligands

17:40 Jendrik Wülbern (Aachen)
Hydrogenation of CO₂ – Experiment vs Calculations

18:00 Break

18:15 Evening Lecture
Prof. Bernhard Lippert
Small molecules with great opportunities:
coordination chemistry with Cis- and Transplatinum

20:00 Dinner at Elisenbrunnern

Friday, February 22nd, 2013

Chair: Rebekka Bohmann Lectures 4

08:30 Kai Rohmann (Aachen)
Ruthenium-Carboxylate-Complexes with Pincer-
Type Ligands

08:50 Markus Neumeyer (Freiburg)
Studies Towards the Total Synthesis of the Pyrano-
Naphthoquinone Lactone γ -Actinorhodin by
Asymmetric Dihydroxylation of a β,γ -Unsaturated
Carboxylic Ester

09:10 Til Böckermann (Münster)
Synthesis of new fluorinated cyclodextrins and its
properties as ¹⁹F-MRI contrast agents

09:30 Coffee Break 09:45

09:45 Exchange of Ideas

How can a Graduate School contribute to a
professional career?

11:45 Lunch

13:00 Feedback and Closing Remarks