



3rd Winter School on Molecular Chemistry

Organised by the

International Research Training Group

**"Generation of Supramolecular Functional Cavities -
Container Molecules, Macrocycles and Related Compounds"**

Hollersbach / Austria

March 7st – March 12th, 2010

Keynote Lecturers

Jan Reedijk, Leiden / Netherlands

J. Chris Slootweg, Amsterdam / The Netherlands

Mark P. Waller, Münster / Germany

Jan J. Weigand, Münster / Germany

Robert Wolf, Münster / Germany

Ernst-Ulrich Würthwein, Münster / Germany

3rd Winter School on Molecular Chemistry

Programme

Sunday, March 7th, 2010:

Evening Session

20:00 – 20:20

Juliana Clodt

Organisch-Chemisches Institut, Westfälische Wilhelms-Universität
Münster, Germany

Novel N-Acylamidine-nickel Complexes and the Synthesis of Bis(1,3,5-triazapentadienes)

20:20 – 20:40

Thorsten Holtrichter Rößmann

Organisch-Chemisches Institut, Westfälische Wilhelms-Universität
Münster, Germany

Polyvalent Oligonitril-Derivatives

20:40 – 21:00

Johannes Hellmann

Organisch-Chemisches Institut, Westfälische Wilhelms-Universität
Münster, Germany

Activation of Heterocumulenes by Group 13 Hydrides

Monday, March 8th, 2008:

Morning Session

8:30 – 8:50

Martina Rohling

Institut für Anorganische und Analytische Chemie, Westfälische
Wilhelms-Universität Münster, Germany

Hydroalumination of Germylcentered Oligoalkynes

8:50 – 9:10

Matthias Voß

Institut für Anorganische und Analytische Chemie, Westfälische
Wilhelms-Universität Münster, Germany

Synthesis of Functionalized Macrocyclic Digallium-Compounds

9:10 – 9:30

Steffi Roters

Institut für Anorganische und Analytische Chemie, Westfälische
Wilhelms-Universität Münster, Germany

C≡C Triple Bond Activation by Heterocyclic Aluminum Phosphinides

Evening Session

20:00 – 20:20

Babak Rezaeirad

Institut für Anorganische und Analytische Chemie, Westfälische
Wilhelms-Universität Münster, Germany

***Thermolysis reaction in synthesis of aluminum and gallium nitride
cages***

20:20 – 21:10

Mark P. Waller

Organisch-Chemisches Institut, Westfälische Wilhelms-Universität
Münster, Germany

QM/MM models of Complex Molecular Systems

Tuesday, March 9th, 2008:

Morning Session

8:30 – 8:50

Fabian Conrady

Institut für Anorganische und Analytische Chemie, Westfälische
Wilhelms-Universität Münster, Germany

***Bisoxazole-based Ligands and their Metal Complexes for Applications
in Supramolecular Chemistry***

8:50 – 9:10

Carolin Dumke

Institut für Anorganische und Analytische Chemie, Westfälische
Wilhelms-Universität Münster, Germany

***Bidentate Isocyanide Ligands as Linear Bridging Building Blocks in
Supramolecular Architectures***

9:10 – 9:30

Peter Hauwert

Van 't Hoff Institute for Molecular Sciences, University of Amsterdam,
The Netherlands

Transfer hydrogenation of alkynes using Pd⁰ complexes

Evening Session

20:00 – 20:20

Susanne Ruppel

Institut für Anorganische und Analytische Chemie, Westfälische
Wilhelms-Universität Münster, Germany

***Synthesis of Mono- and Oligonuclear Complexes Based on Linked Tris-
benzene-o-dithiolato Ligands***

20:20 – 21:10

Dr. J. C. Slootweg

Department of Chemistry and Pharmaceutical Sciences, VU University
Amsterdam, The Netherlands

Essential Building Blocks

Wednesday, March 10th, 2010:

Morning Session

8:30 – 8:50

Evelin Jansen

Molecular Inorganic Chemistry, van 't Hoff Institute of Molecular
Sciences, Universiteit van Amsterdam, The Netherlands

Hydrogenolysis of Esters Using Novel Ruthenium Complexes

8:50 – 9:10

Stefan Warsink

Molecular Inorganic Chemistry, van 't Hoff Institute for Molecular
Sciences, Universiteit van Amsterdam, The Netherlands

***Nitrogen-functionalized NHCs as heteroditopic ligands for Palladium
complexes***

9:10 – 9:30

Mareike C. Jahnke

Institut für Anorganische und Analytische Chemie, Westfälische
Wilhelms-Universität Münster, Germany

Complexes Derived from Polydentate Carbene Ligands

Evening Session

20:00 – 20:20

Holger Kruse

Organisch-Chemisches Institut, Westfälische Wilhelms-Universität
Münster, Germany

***The Mechanism of Dihydrogen Activation by Frustrated Lewis Pairs
Revisited***

20:20 – 21:10

Jan Reedijk

Leiden Institute of Chemistry, Leiden University, The Netherlands

***The role of ligand design for coordination compounds with special
properties or applications***

Thursday, March 11th, 2008

Morning Session

8:30 – 8:50

Dominik A. Megger

Institut für Anorganische und Analytische Chemie, Westfälische
Wilhelms-Universität Münster, Germany

***A novel tridentate nucleoside and its potential application in metal-
mediated base pairs***

8:50 – 9:10

Kristof Seubert

Institut für Anorganische und Analytische Chemie, Westfälische
Wilhelms-Universität Münster, Germany

***1-Deazapurine derived nucleobases for metal coordination inside of
artificial DNA***

9:10 – 9:30

Nicole Megger

Institut für Anorganische und Analytische Chemie, Westfälische
Wilhelms-Universität Münster, Germany

***Using in vitro transcription to construct scaffolds for one-dimensional
arrays of metal ions***

Evening Session

20:00 – 20:50

Robert Wolf

Institut für Anorganische und Analytische Chemie, Westfälische
Wilhelms-Universität Münster, Germany

Reactive Polyarene Iron Complexes

20:50 – 21:40

Jan J. Weigand

Institut für Anorganische und Analytische Chemie, Westfälische
Wilhelms-Universität Münster, Germany

***Facile Construction of diverse Ring- and Cluster Systems via Pnictogen
Building Blocks***

Friday, March 12th, 2010:

Morning Session

8:30 – 9:20

Ernst-Ulrich Würthwein

Organisch-Chemisches Institut, Westfälische Wilhelms-Universität
Münster, Germany

***Topology and Electronegativity: Important Criteria for Electrocyclic
Reactions***

9:20 – 9:40

Closing Remarks