



# 16<sup>th</sup> IRTG Joint Symposium

**University of Münster and  
Nagoya University**

**Monday, November 11<sup>th</sup> and Tuesday, November 12<sup>th</sup>  
2013**

**Westfälische Wilhelms-Universität Münster,  
Hörsaalgebäude der chemischen Institute, Wilhelm-Klemm-Str. 6**

**Lecture Hall O1**

**Monday, November 11<sup>th</sup>****10:10****Opening address**

Prof. Gerhard Erker, Spokesman of the IRTG Münster-Nagoya

**10:15****Prof. Shigehiro Yamaguchi**

Department of Chemistry, Nagoya

*"Functional pi-Electron Materials with Rigidity and Flexibility"***10:45****Mr. Sam Shih-Cheng Chien**

Group of Prof. Watanabe, Department of Chemistry, Nagoya

*"A Novel Preparation Method for Apo-Form of H<sub>2</sub>O<sub>2</sub>-Dependent Cytochrome P450s and Its Reconstitution"***11:05****Dr. Thomas Wiegand**Group of Prof. Eckert, Department of Chemistry and Pharmacy,  
Münster*"P/B Frustrated Lewis Pairs and their adducts with small molecules studied by modern Solid-State NMR techniques and DFT calculations"***11:35****Coffee break****12:00****Assoc. Prof. Susumu Saito**

Group of Prof. Noyori, Department of Chemistry, Nagoya

*"Hydrogen management: hydrogenation and dehydrogenation for organic synthesis"***12:30****Ms. Aki Matsuoka**

Group of Prof. Noyori, Department of Chemistry, Nagoya

*"Hydration of nitriles to amides with chitin-supported ruthenium catalysts"*

**12:50****Lunch break****14:20****Prof. Jens Müller**

Department of Chemistry and Pharmacy, Münster

*“New ligands for metal-mediated base pairing”***14:50****Ms. Friederike Sibbel**Group of Prof. Studer, Department of Chemistry and Pharmacy,  
Münster*“Selective Synthesis of [7]- and [8] Cycloparaphenylenes”***15:10****Asst. Prof. Satoshi Muratsugu**

Group of Prof. Tada, Department of Chemistry, Nagoya

*“Surface Design of Oxide-supported Metal Complexes and  
Clusters toward Heterogeneous Catalysis”***15:40****Coffee break****16:10****Dr. Tetsuya Yamada**

Group of Prof. Awaga, Department of Chemistry, Nagoya

*“In situ Seamless Magnetic Measurements for Solid-State  
Electrochemical Processes”***16:30****Prof. Bernhard Wünsch**

Department of Chemistry and Pharmacy, Münster

*“Enantiomerically pure fluorinated PET-tracer for imaging of  
sigma-1 receptors in the brain”*

**17:00****Prof. Stephan Irle**

Department of Chemistry, Nagoya

*“Changes in Molecular and Electronic Structure of POM Clusters in Batteries During Charging and Discharging”***17:30****Mr. Michael Kurlemann**Group of Prof. Ravoo, Department of Chemistry and Pharmacy,  
Münster*“Host-Guest Chemistry of Liquid Crystalline Cyclodextrins - Towards the Control over Self-Assembly”***19:00****Dinner at Restaurant Altes Gasthaus Leve/Pizzeria Lido****Tuesday, November 12<sup>th</sup>****10:15****Prof. Kazuyuki Tatsumi**

Department of Chemistry, Nagoya

*“Chemistry of Cluster Active Sites of Oxidoreductases - Drawing a Lesson from the Brilliant Functions of the Enzymes for our Future Sustainable Society”***10:45****Mr. Tobias Greulich**Group of Prof. Studer, Department of Chemistry and Pharmacy,  
Münster*“A Viologen Congener with enhanced Oxidation Potential”***11:05****Assoc. Prof. Shinya Hagihara**

Group of Professor Itami, Department of Chemistry, Nagoya

*“Development of artificial plant growth regulator”*



**11:35**

**Coffee break**

**11:55**

**Dr. Pol Besenius**

Department of Chemistry and Pharmacy, Münster

*“Controlled Supramolecular Polymerisation of Peptide Materials in Water”*

**12:25**

**Ms. Janine Fröhlich**

Group of Prof. Wünsch, Department of Chemistry and Pharmacy, Münster

*“Synthesis of conformationally restricted  $\kappa$  receptor agonists by bridging of piperidine”*

**12:45**

**Lunch break**

**14:00**

**Prof. Kunio Awaga**

Department of Chemistry, Nagoya

*“Organic Electronics with Ionic Liquids”*

**14:30**

**Mr. Nils Schröder**

Group of Prof. Glorius, Department of Chemistry and Pharmacy, Münster

*“Synthesis of New Plant-growth Molecules by C-H Activation”*

**14:50**

**Dr. Christian A. Strassert**

Department of Physics, Münster

*“Planar photosensitizing and electroluminescent materials: Aggregation matters”*



- 15:20**                    **Coffee break**
- 15:40**                    **Postersession**
- 16:10**                    **Mr. Yoshio Nishimoto**  
Group of Prof. Irle, Department of Chemistry, Nagoya  
*"Joint Theoretical and Experimental Mechanistic Studies of a Rh(I)-Catalyzed Aldol-Type Reaction of Organonitriles Under Mild Conditions"*
- 16:30**                    **Ms. Friederike Schröter**  
Group of Prof. Ravoo, Department of Chemistry and Pharmacy, Münster  
*"Catalytic Microcontact Printing with TiO<sub>2</sub> Nanoparticles on nitrobenzene functionalized surfaces"*
- 16:50**                    **Asst. Prof. Haruka Omachi**  
Group of Prof. Shinohara, Department of Chemistry, Nagoya  
*"Selective Complexation and Extraction of Endohedral Metallofullerenes with Cycloparaphenylene"*
- 17:20**                    **Mr. Kengo Asai**  
Group of Prof. Yamaguchi, Department of Chemistry, Nagoya  
*"Chemistry of Non-planar Cyclic Oligothiophene with 3,3'-Bithiophene Linkage"*
- 17:40**                    **Closing remarks**
- 19:00**                    **Dinner at Restaurant Drübbelken**

## Poster Presentations

1. **Raúl A. Adler Yañez**, C. G. Daniliuc, G. Kehr, G. Erker  
*Hydroboration of Divinylboranes using  $HB(C_6F_5)_2$*
2. **Till Böckermann**, B. J. Ravoo  
*Synthesis and Properties of Novel Cyclodextrin Vesicles*
3. **Steffen Eusterwiemann**, T. Dresselhaus, J. Neugebauer, A. Studer  
*From Biphenyl Towards More Planar  $\pi$ -Conjugated Diradicals as Building Blocks for Organic Magnets*
4. **Andreas Feldmann**, E. Yamaguchi, C. G. Daniliuc, G. Kehr, A. Fukazawa, S. Yamaguchi, G. Erker  
*Enhanced Emission of Unsymmetrical Tetraarylphospholes Through Intramolecular Charge-Transfer*
5. **Janine Fröhlich**, S. Saito, B. Wünsch  
*Synthesis of conformationally restricted  $\kappa$  receptor agonists by bridging of N-heterocycles*
6. **Tobias Greulich**, E. Yamaguchi, A. Fukazawa, A. Studer, S. Yamaguchi  
*A Viologen Congener with enhanced Oxidation Potential*
7. **Artur Kokornaczyk**, B. Wünsch  
*2-Benzazepine based CCR5 receptor antagonists as potential anti-inflammatory agents*
8. **Michael Kurlemann**, S.-I. Kawano, B. J. Ravoo, K. Tanaka  
*Host-Guest Chemistry of Liquid Crystalline Cyclodextrin - Towards the Control over Self-Assembly*
9. **Thomas Özgün**, X. Wang, C. G. Daniliuc, G. Kehr, G. Erker  
*Investigating the Behaviour of Tri- and Tetramethylene Bridged P/B-FLP Systems*

10. **Christian Radunsky, Jens Müller**  
*Properties and Application of Hydrazone-Based Nucleobase Metal Complexes*
11. **Nils Schröder, Frank Glorius**  
*High yielding, versatile and practical [Rh(III)Cp\*]-catalyzed ortho-bromination and iodination of arenes*
12. **Friederike Schröter, S. Saito, B. J. Ravoo**  
*Catalytic Microcontact Printing with TiO<sub>2</sub> Nanoparticles on Surfaces*
13. **Adrian Schulte, S. Saito, B. Wünsch**  
*Stereoselective Cyclization of N-Functionalized Allylamines*
14. **Friederike Sibbel, K. Matsui, Y. Segawa, A. Studer, K. Itami**  
*Selective Synthesis of [7]- and [8]Cycloparaphenylenes*
15. **Marina Szermerski, B. Wünsch**  
*Synthesis of Fluoroethyl Substituted GluN2B Antagonists for the Positron Emission Tomography*
16. **Benjamin Vönhören, B. J. Ravoo**  
*The Layer by Layer approach – a versatile technique for the controlled modification of surfaces*
17. **Yoshio Nishimoto, R. Ushimaru, T. Fujimori, D. Yokogawa, H. Naka, S. Saito, S. Irle**  
*Theoretical and Experimental Investigations of an Aldol-Type Reaction with Rh Complex*
18. **Aki Matsuoka, T. Isogawa, Y. Morioka, R. Noyori, S. Saito, H. Naka**  
*Hydration of nitriles to amides with polysaccharide-supported ruthenium catalysts*
19. **Satoshi Muratsugu**  
*Design and Performance of a Molecularly Imprinted Ru Catalyst with a Binding Site on a SiO<sub>2</sub> Surface*