



## 11<sup>th</sup> IRTG JOINT SYMPOSIUM

**University of Münster and  
Nagoya Universtiy**

**Monday, May 9<sup>th</sup> and Tuesday, May 10<sup>th</sup> 2011**

Westfälische Wilhelms-Universität Münster,  
Organische/Anorganische Chemie, Wilhelm-Klemm-Str. 6,  
Lecture Hall O1



## Monday, May 9th

**09:00****Opening address**

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

**09:10****Prof. Ernst-Ulrich Würthwein**

Department of Chemistry, Münster

*Electrocyclization Reactions under Superelectrophilic**Conditions: Experiments and Theory***09:40****Mr. Yasunari Sakai**

Group of Prof. Hishikawa, Department of Chemistry, Nagoya

*IV-SFG studies on alkane / ionic liquid interfaces***10:00****Prof. Kazuyuki Tatsumi**

Department of Chemistry, Nagoya

*C-H Bond Activation by Coordinatively Unsaturated Iron**Complexes with N-Heterocyclic Carbene Auxiliary***10:30****Mr. Achim Bruch**

Group of Prof. Studer, Department of Chemistry, Münster

*Bis(phosphoryl)-bridged Biphenyls by Radical Phosphanylation:**Synthesis, Photophysical and Electrochemical Properties***10:50****Coffee break****11:30****Prof. Shigehiro Yamaguchi**

Department of Chemistry, Nagoya

*Boron-Containing  $\pi$ -Conjugated Materials with Unique**Structural Features*

**12:00****Ms. Kristine Müther**

Group of Prof. Oestreich, Department of Chemistry, Münster

*Catalysis with Ferrocene-Stabilized Silylium Ions***12:20****Mr. Tomoaki Seki**

Group of Prof. Kitamura, Department of Chemistry, Nagoya

*Catalytic Asymmetric Synthesis of  $\alpha$ -Alkenyl-substituted Cyclic Ethers***12:40****Mr. Yasuhito Miyoshi**

Group of Prof. Awaga, Department of Chemistry, Nagoya

*Electrochemical Band-filling Control in Crystalline Thin Films of Porphyrazine Compounds***13:00****Lunch break****Honorary doctorate of Prof. Kazuyuki Tatsumi****(Lecture Hall C1)****15:15****Opening address**

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

**15:30****Laudatio**

Prof. em. Bernt Krebs, Department of Chemistry, Münster

**15:45****About the IRTG**

Ines Ferse (Group of Prof. Humpf), Melanie Rauschenberg (Group of Prof. Ravoo), Münster

**16:00****Honorary doctorate**



- 16:15**      **Lecture**  
Prof. Jun Okuda, Department of Chemistry, RWTH Aachen  
*Molecular Polymerization Catalysts Beyond Metallocenes*
- 17:00**      **Reception at the foyer**
- 19:00**      **Dinner at Restaurant Ackermann**

## Tuesday, May 10th

- 09:00**      **Prof. Kenichiro Itami**  
Department of Chemistry, Nagoya  
*Toward Controlled Synthesis of Nanocarbons: Fullerenes,  
Carbon Nanotubes, and Graphenes*
- 09:30**      **Ms. Melanie Rauschenberg**  
Group of Prof. Ravoo, Department of Chemistry, Münster  
*Synthesis and Functionalization of Supramolecular  
Phthalocyanine and Phthalocyanine Porphyrin Double-Deckers*
- 09:50**      **Prof. Hans-Ulrich Humpf**  
Department of Chemistry, Münster  
*Chemical Modifications of B-type Fumonisin Mycotoxins*
- 10:20**      **Ms. Tamaki Terada**  
Group of Prof. Tatsumi, Department of Chemistry, Nagoya  
*Model Synthesis of [1:3] Site-Differentiated [4Fe-4S] Clusters in  
Organisms*
- 10:40**      **Coffee break**



**11:10**

**Prof. Kentaro Tanaka**

Department of Chemistry, Nagoya

*Programmable Stacked Arrays of Porphyrin and  
Phthalocyanine*

**11:40**

**Ms. Claudia Lohre**

Group of Prof. Glorius, Department of Chemistry, Münster

*Nickel-Catalyzed Kumada Cross-Coupling of Aryl Bromides with  
Tertiary Grignard Reagents*

**12:00**

**Prof. Kunio Awaga**

Department of Chemistry, Nagoya

*Crystal Structures and Physical Properties of Thiazyl and  
Thiadiazole Compounds*

**12:30**

**Lunch Break**

**14:00**

**Prof. Jens Müller**

Department of Chemistry, Münster

*Application of a 2,2'-Bipyridine-based Nucleoside as a  
Bidentate Ligand in Nucleic Acid Chemistry*

**14:30**

**Mr. Jiakun Xu**

Group of Prof. Watanabe, Department of Chemistry, Nagoya

*Site-Specific Mutagenesis Approach for Constructing  
Biocatalyst using Myoglobin Scaffold for Synthesis of Indigo  
from Indole*



**IRTG**<sup>MS-NG</sup>

**International Research Training Group**  
Münster / GERMANY - Nagoya / JAPAN



University of Münster / Germany



Nagoya University / Japan

**14:50**

**Asst. Prof. Hiroshi Naka**

Department of Chemistry, Nagoya

*A Step Towards Robust Hydration of Organic Compounds  
Through Molecular Catalysis*

**15:20**

**Mr. René Liedtke**

Group of Prof. Erker, Department of Chemistry, Münster

*Reactivity of intermolecular frustrated Lewis-pairs towards  
diynes*

**15:40**

**Closing Remarks**

**19:00**

**Dinner at Hotel Wienburg**

## Poster Presentations

- 1) N. Blaas, H.-U. Humpf  
*Structure Elucidation and Quantification of Sphingomyelin in Human Breast Milk by HPLC-MS/MS*
- 2) A. Feldmann, R. Fröhlich, G. Kehr, G. Erker  
*New Carboboration Reactions with Cyclopropyl Substituted Alkynes*
- 3) I. Ferse, J. Yamaguchi, K. Itami, H.-U. Humpf  
*Towards Synthesis and Chemical Modification of Ochratoxin A*
- 4) C. Grohmann, S. Rakshit, T. Besset, F. Glorius  
*Rh[III]-Catalyzed Directed C-H  
Olefination Using an Internal Oxidant: Mild, Efficient and Versatile*
- 5) M. Harhausen, G. Kehr, R. Röhlich, G. Erker  
*Coordination of Small Molecules and Diines with "Frustrated LEWIS Pairs"*
- 6) A. Junker, B. Wünsch, K. Itami  
*Synthesis and Structure Activity Relationships of novel Chemokine-Receptor 5 Antagonists*
- 7) C. Lohre, T. Dröge, C. Wang, F. Glorius  
*Nickel-catalyzed Cross-Coupling of Aryl Bromides with tertiary Grignard Reagents Utilizing Donor-functionalized N-Heterocyclic Carbenes (NHCs)*
- 8) L. Lohrey, H.-U. Humpf  
*Synthesis of Isotopically Labeled Tenuazonic acid*
- 9) J. Mehlich, B. J. Ravoo, Y. Miyata, H. Shinohara  
*Fabrication of an all-CNT Field Effect Transistor by Microcontact Printing*
- 10) C. Meyer, B. Wünsch  
*Aromatic Moieties dancing around Thiophenes: Directed Functionalisation and pharmacological Investigations on the sigma 1 Receptor*



- 11) B. Neue, A. Fukazawa, A. Wakamiya, R. Fröhlich, S. Yamaguchi, E.-U. Würthwein  
*Straightforward Synthesis of Novel Nitrogen- and Nitrogen-Boron-Heterocycles with Unique Properties*
- 12) C. Radunsky, J. Müller  
*Tridentate hydrazone based ligands in metal-ion-mediated base pairs*
- 13) C. Rosorius, G. Kehr, R. Fröhlich, G. Erker  
*Chemistry of a novel geminal alkylidene-bridged Frustrated Lewis Pair*
- 14) A. Schulte, B. Wünsch, S. Saito  
*Stereoselective Synthesis of Pyrrolidinylcyclohexanediols as Precursors of kappa-Opioid Receptor Agonists*
- 15) S. Schwendemann, R. Fröhlich, G. Kehr, G. Erker  
*Reactivity of intramolecular P/B and N/B FLP systems*
- 16) H. Wagner, Y. Li, M. Hirtz, L. Chi, H. Fuchs, A. Studer  
*Site Specific Protein Immobilization into Structured Polymer Brushes Prepared by AFM Lithography*