



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

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



University of Münster / Germany



Nagoya University / Japan

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

**University of Münster and Nagoya University**

**Thursday, November 27<sup>th</sup>  
and Saturday, November 29<sup>th</sup> 2014**

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

**Lecture Hall O1**



## Thursday, November 27<sup>th</sup>

**9:30 AM**    **Opening addresses**

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

**9:40 AM**    Prof. **Suning Wang** (Queen's University, Canada)

*“Unusual Elimination, Addition and Insertion Reactions of Organoboranes”*

**10:10 AM**    Mr. **Thomas Özgün** (Erker Group)

*“Frustrated Lewis Pairs; Ambiphilic Ligands in Transition Metal Catalyzed Reactions”*

**10:30 AM**    Assoc. Prof. **Susumu Saito** (Noyori Group)

*“Hydrogen Management Catalysis Using Thermal and Light Energy for Organic Synthesis”*

**11:00 AM**    Ms. **Yuna Morioka** (Noyori Group)

*“Hydrogenation of arenes to cyclohexanes by a chitin-supported ruthenium catalyst”*

**11:20 AM**    **Coffee break**

**11:50 AM**    Prof. **Kazuyuki Tatsumi**

*“Cluster Geometry of the Nitrogenase FeMo-co”*



**12:20 PM** Ms. **Marina Szermerski** (Wünsch Group)

*“Correlation of ring size and product formation in cytochrome P450 catalyzed oxidation of cyclic styrene derivatives”*

**12:40 PM** Mr. **Sho Nakajima** (Nakamura Group, Kyoto University)

*“Structure and Reactivity of Aryl-Iron Intermediates in Iron-Catalyzed Cross-Coupling Reaction of Alkyl halides”*

**1:00 PM** **Lunch Break and Poster Session**

**2:30 PM** Dr. **Chikako Shirataki**

*“Capture of Artificial Metal Complexes by a Heme Acquisition Protein of Pseudomonas aeruginosa and Its Effect for Living Cells”*

**3:00 PM** Prof. **Hans-Ulrich Humpf**

*“Thermal reaction products of the mycotoxin ochratoxin A - what can be found in consumers' blood?”*

**3:30 PM** Dr. **Shunsuke Oishi**

*“Chemical Synthesis of Pollen Tube Attractant Proteins by KAHA Ligation”*

**4:00 PM** **Coffee break**

**4:30 PM** Prof. **Bernhard Wünsch**

*“Drug Optimization by Late-Stage Diversification”*



**5:00 PM** Mr. **Dominik Bergmann** (Humpf Group)

*“Synthesis of aminoglycoside derivatives that induce inaccurate translation”*

**5:20 PM** Ms. **Rie Osu** (Tada Group)

*“Dinuclear Nickel Complexes Supported by Diamido-dithiolate “mbea” Modeling Acetyl CoA Synthase”*

**7:00 PM** **Dinner** (Töddenhoek)

## Saturday, November 29<sup>th</sup>

**9:30 AM** Prof. **Shigeru Yamago** (Kyoto University)

*“Termination Mechanism of Radical Polymerization”*

**10:00 AM** Mr. **Till Böckermann** (Ravoo group)

*“Controlling Liquid Crystalline Phases by Host Guest Chemistry of Functionalized Cyclodextrin”*

**10:20 AM** Prof. **Bart Jan Ravoo**

*“Soft Materials by Self-Assembly”*

**10:50 AM** Ms. **Nozomi Mihara** (Tanaka group)

*“Electronic Communication among Heterogeneously Stacked Metallo-Phthalocyanine and Metallo-Porphyrins”*



**11:10 AM**    **Coffee break**

**11:40 AM**    Assoc. Prof. **Michio Matsushita** (Awaga Group)

*“Investigations on Functional Materials derived from Organic Radicals:  
Organic Magnetoresistance Devices and Ring Polymers”*

**12:10 PM**    Mr. **Benjamin Vonhören** (Ravoo Group)

*“Improving the Performance of Organic Photodetectors”*

**12:30 PM**    Mr. **Yuki Maeda** (Yamago Group, Kyoto University)

*“Synthetic Study of a Porphyrin-Containing Cycloparaphenylene  
Derivative”*

**12:50 PM**    **Lunch and Postersession**

**2:30 PM**    Prof. **Shigehiro Yamaguchi**

*“Excited State Design of Photo-functional Molecules”*

**3:00 PM**    Prof. **Hellmut Eckert**

*“Structural Characterization of magnetic and catalytic hybrid materials”*

**3:30 PM**    Mr. **Hiroshi Osaki** (Yamaguchi Group)

*“Macrocyclic Restriction with Flexible Linkers: An Approach to Bright  
Fluorophore with Long Fluorescence Lifetime”*



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**3:50 PM**      **Coffeebreak**

**4:20 PM**      **Prof. Kenichiro Itami**

*“Catalysis for Carbon Materials and Plant/Animal Biology”*

**4:50 PM**      **Mr. Artur Kokornaczyk (Wünsch Group)**

*“Regioselective Arylation of Thiazol Derivatives as New Potential  $\sigma 1$  Antagonists”*

**5:10 PM**      **Mr. Ryosuke Takise (Itami Group)**

*“Ni-Catalyzed Direct Coupling of Carbonyls and Phenol Derivatives”*

**5:30 PM**      **Closing remarks**

**7:00 PM**      **Dinner** (Il Trattino; for professors) or **Christmas Market** (for students)