

The 4th joint IRTG SYMPOSIUM between Nagoya University and University of Münster

Thursday, September 6th and Friday September 7th 2007

Westfälische Wilhelms-Universität Münster, Organische/Anorganische Chemie, Wilhelm-
Klemm-Str. 6, Lecture hall C2

September 6th:

Session 1: 8:45-10:40

Opening Address (9:00-9:45)

Prof. Gerhard Erker (9:00-9:05)

Prof. Shinichi Yamamoto (9:05-9:25)

Mrs. Tansho (9:25-9:45)

9:45-10:15 Prof. Yoshihito Watanabe
„Transformation of Cytochrome P450BS β into a Versatile Peroxygenase“

10:15-10:35 Jochen Niemeyer
„Apo-ferritin as a host for organometallic guest molecules“

10:35-11:00 Coffee Break

Session 2: 11:00-12:40

11:00-11:30 Prof. Ernst-Ulrich Würthwein
„Cationic Nitrogen Compounds for the Synthesis of Five- and Seven-membered Carbo- and Heterocycles“

11:30-11:50 Kazunori Ohashi
„UHV-STM/STS observation of Lu₂@C₇₆ metallofullerene“

11:50-12:20 Prof. Frank Glorius
„N-Heterocyclic carbenes in catalysis“

12:20-12:40 Yuki Asada
„Observation and Characterization of SWNT-DNA hybrids by Electric force microscopy“

12:40-14:30 Lunch break

**Session 3: 14:30-16:10**

- 14:30-15:00** **Prof. Kazuyuki Tatsumi**
„Organometallic Chemistry and Metalloenzymes“
- 15:00-15:20** **Simon Janich**
„On Novel Nitrogen-containing Macrocycles and Aromatic Interactions“
- 15:20-15:50** **Prof. Kunio Awaga**
„Solid-state electrochemical processes in molecular clusters and thin films“
- 15:50-16:10** **Christian Wiese**
„In vitro metabolism of spirocyclic σ_1 receptor ligands“
- 16:10-16:40** **Prof. Kenichiro Itami**
„Catalytic Direct Functionalization of Aromatics: Arenes, Heteroarenes, and Fullerenes“
- 16:40-17:00** **Verena Trepohl**
„Rhodium - Catalyzed Conjugate Phosphination with Silylphosphines“
- 17:00-18:00** **Coffee Break and Poster Session**
- 18:00-19:00** **Time for Discussion/Group Meeting**
- 19:30-** **Joint Barbecue at the Institute (everybody is welcome!)**

September 7th:

Session 1: 9:00-10:40

- 9:00-9:30** **Prof. Armido Studer**
„Applications of Cyclohexadienes in Synthesis“
- 9:30-9:50** **Satoshi Abe**
„Structures and Catalytic Reactions of Organometallic Complexes in a Protein Nano Cage“
- 9:50-10:20** **Prof. Bart Jan Ravoo**
„Microcontact chemistry“
- 10:20-10:40** **Junichi Yoshimoto**
„Aqua Aminoorganoboron Catalyst: Engineering Water to Act as an Active Site Acid Catalyst for Aldol-type Reactions“
- 10:40-11:00** **Coffee Break**

Session 2: 11:00-12:40

- 11:00-11:30** **Prof. Osamu Ohno**
„Trial to access unknown natural products by using the genome of unculturable bacteria from marine sponges“
- 11:30-11:50** **Nadine Rosenberger**
„Site-directed Mutagenesis and Modification of Azurin with Poly-N-Isopropylacrylamide“
- 11:50-12:20** **Prof. Susumu Saito**
„Molecular Design of Acid–Base Catalysis for Organic Synthesis“
- 12:20-12:40** **Andre Job**
„New Molecular Design Towards Organic Semiconductors: B-N Coordinated π -Electron Systems“
- 12:40-14:30** **Lunch break**

**Session 3: 14:30-16:10**

- 14:30-15:00** **Prof. Gerhard Erker**
„Developing Bifunctional Systems for Small Molecule Activation“
- 15:00-15:20** **Mikinao Ito**
„Synthesis of Dinuclear Nickel Complexes as Structural and Reaction Models for an Active Site of Acetyl-CoA Synthase“
- 15:20-15:50** **Prof. Bernhard Wünsch**
„Spirocyclic σ Receptor Ligands“
- 15:50-16:10** **Dr. Motoki Takuma**
„Reaction of Bis(pentafluorophenyl)borane with Phosphines, Amines and a Phosphorus Ylide“
- 16:10-16:20** **Closing Remarks**
Prof. Kazuyuki Tatsumi
- 16:20-17:00** **Coffee Break and Poster Session**
- 17:00-19:00** **Time for Discussion/Group Meeting**
- 19:30-** **Joint Dinner**

September 8th:**Excursion: Mining Museum**