

PROGRAM

Joint Symposium Aachen – Osaka
Tuesday, September 19th, 2017

Conference Dinner

19:30 Dinner at "Elisenbrunnen"

Wednesday, September 20th, 2017

Venue: Institute of Inorganic Chemistry, Landoltweg 1, Room 202,
52074 Aachen

Welcome

10:00 Prof. Dr. Jun Okuda, Spokesperson SeleCa,
RWTH Aachen University
Prof. Dr. Stefan Schael, Dean, Faculty of
Mathematics, Computer Science and Natural
Sciences, RWTH Aachen University

CHEMISTRY I

Chair: Meria Ronge, M. Sc.

10:10 Prof. Dr. Douglas W. Stephan, University of Toronto
"The Broadening of FLP Chemistry: New Avenues in
Synthesis and Catalysis"

10:55 Hassan Osseili, M. Sc., RWTH Aachen University
"Chemoselective Hydroboration by Hydridotriphenyl-
borane [HBPh₃] Anion"

11:10 Argha Bhattacharjee, M. Sc., Osaka University
"Metal Free Reductive Deoxygenation of Sulfoxides
by Organosilicon Reducing Reagent"

Coffee Break (11:25 – 11:45)

CHEMISTRY II

Chair: Nils Knop, M.Sc.

11:45 Prof. Dr. Masahiro Miura, Osaka University
"Synthesis of Polycondensed Heteroacenes by
Catalytic Intramolecular Dehydrogenative Coupling"

12:10 Hiroaki Oda, M. Sc., Osaka University
"Asymmetric Allylic Alkylation of β -Ketoesters with
Allylic Alcohols Catalyzed by Nickel Complexes with
a Chiral Diphosphine Ligand"

12:25 Daiki Fujita, M. Sc., Osaka University
"Catalytic C–H Amination Driven by Intramolecular
Ligand-to-Nitrene One-Electron Transfer Through a
Rhodium(III) Centre"

12:40 Kento Kawakita, M. Sc., Osaka University
"Azo N=N Bond Cleavage Mediated by Low-valent
Species of Group 5 Metal Complexes"

Lunch (12:55 – 14:05)

BIOTECHNOLOGY I

Chair: Anne-Katrin Bachon, Dipl.-Chem.

14:05 Prof. Dr. Laura Hartmann, HHU Düsseldorf
"Sweet Precision – On the Synthesis and Application
of Sequence-Controlled Glycomacromolecules"

14:50 Prof. Dr. Lothar Elling, RWTH Aachen University
"Multivalent Neo-Glycoconjugates as Specific
Galectin Ligands"

15:15 Ass. Prof. Dr. Takao Ohashi, Osaka University
"Production of Flavonoid Glycoside in the
Engineered Yeast"

Coffee Break (15:35 – 15:55)

BIOTECHNOLOGY II

Chair: Marius Hoffmann, M. Sc.

15:55 Prof. Dr. Eiichiro Fukusaki, Osaka University
"Reduction of Matrix Effect in GC/MS Ion Source and
Method Optimizations for Cohort Study of Disease
Metabolomics"

16:20 Yosuke Nakano, M. Sc., Osaka University
"High-Throughput LC-MS/MS-Based Chiral
Metabolic Profiling Focusing on Amino Acids and
Related Metabolites"

16:35 Ass. Prof. Dr. Sastia P. Putri, Osaka University
"Metabolomics: A Powerful Tool for Phenotype
Improvement in Synthetic Biology"

16:55 Benedikt Heyman, M. Sc., RWTH Aachen University
"Biotechnological Production of Itaconic Acid via In
Situ Product Removal"

Break (17:10 – 17:30)

Poster session and dinner (17:30 – 20:00)

Thursday, September 21st, 2017

Venue: Institute of Inorganic Chemistry, Landoltweg 1, Room 202,
52074 Aachen

CHEMISTRY III

Chair: Steffen Mader, M. Sc.

10:00 Prof. Dr. Kai C. Hultsch, University of Vienna
"Asymmetric Hydroamination of Alkenes Using Rare
Earth, Alkali, and Alkaline Earth Metals"

10:45 Danny Schuhknecht, M.Sc., RWTH Aachen University
"Calcium Hydride Cation [CaH]⁺ Stabilized by an
NNNN-type Macrocyclic Ligand: Selective Catalyst
for Olefin Hydrogenation"

11:00 Prof. Dr. Nobuaki Kambe, Osaka University
"Transition Metal Catalyzed Carbon-Carbon Bond
Forming Reactions Using Organofluorine
Compounds"

Coffee Break (11:25 – 11:45)

BIOTECHNOLOGY III

Chair: Stephanie Mertens, M. Sc.

11:45 Prof. Dr. Takashi Hayashi, Osaka University
"Hydroxylation of Inert Alkane Species via C-H Bond
Activation Catalyzed by Myoglobin Reconstituted with
Manganese Porphycene as an Artificial Cofactor"

12:10 Yuta Miyazaki, M. Sc., Osaka University
"A Protein-based Functional Model of Methane-
generating Enzyme: A Hemoprotein Reconstituted
with a Porphyrinoid Nickel Complex"

12:25 Ulla Weißbach, M. Sc., RWTH Aachen University
"Selective Enzymatic Esterification of Lignin Model
Compounds in the Ball Mill"

12:40 Nozomu Inoue, M. Sc., Osaka University
"Construction of a Bioelectrode with Controlled
Hemoprotein Orientation Using Cofactor-Specific
Click Chemistry"

Lunch (12:55 – 14:10)

PROGRAM

CHEMISTRY IV & BIOTECHNOLOGY IV

Chair: Kyra Hoffmann, M. Sc.

- 14:10 Prof. Dr. Hiroaki Sasai, Osaka University
"Oxidative Coupling of Phenol Derivatives Catalyzed by a Chiral Vanadium(V) Complex"
- 14:35 Assoc. Prof. Dr. Hideki Sugimoto, Osaka University
"Oxidative Transformation of Alkenes Catalyzed by Bioinspired Osmium Complexes"
- 14:55 Lena Ebert, M. Sc., RWTH Aachen University
"A New Tyrosinase Model Complex: Activation of Dioxygen and Hydroxylation of Phenols"
- 15:10 Alexander Grimm, M. Sc., RWTH Aachen University
"Protein Engineering of Nitrobindin for Whole Cell Biohybrid Catalysts"
- 15:25 Shunsuke Kato, M. Sc., Osaka University
"RhCp-Immobilized Biohybrid Whole Cell Catalyst for Isoquinoline Synthesis"*

Coffee Break (15:40 – 16:00)

CHEMISTRY V

Chair: Lu Lu, M. Sc.

- 16:00 Kosuke Yasui, M. Sc., Osaka University
"Rhodium-Catalyzed Directed C-H Bond Arylation with Aryl Carbamates"
- 16:15 Christian Göb, M. Sc., RWTH Aachen University
"Cyclic Coordination Compounds "Donuts""
- 16:30 David Van Craen, M. Sc., RWTH Aachen University
"Hierarchical Helicates – More Than Just Models"
- 16:45 Prof. Dr. Lawrence R. Sita, University of Maryland
"Redesigning Synthetic Nitrogen Fixation"

Closing Remarks

- 17:30 Prof. Dr. Kazushi Mashima, Coordinator JGGE, Osaka University

Dinner at restaurants in Aachen

Friday, September 22nd, 2017

Excursion to Monschau

Transfer to Monschau

- 8:45 Gathering at the front entrance of the Institute of Inorganic Chemistry
- 9:00 – 9:45 Bus transfer to Monschau
Parkplatz Burgau

Schedule in Monschau

- 10:00 – 11:00 Guided tour through historic city of Monschau
Start at Gerberplatz
- 11:00 – 12:00 Free time and walk to historic mustard mill
Optional: hilltop viewpoint and mustard mill shop
- 12:00 – 13:00 Guided tour through historic mustard mill
*Laufenstr. 118
52156 Monschau*
- 13:00 – 15:00 Lunch at Felsenkeller (beer brewery)
*St. Virther Str. 6
52156 Monschau*
- 15:00 – 15:45 Guided tour through beer brewery museum
*St. Virther Str. 6
52156 Monschau*

- 15:45 – 16:15 Free time

Transfer to Aachen

- 16:15 Gathering at parking lot
Parkplatz Burgau
- 16:30 – 17:30 Bus transfer to Aachen

Important Addresses and Phone Numbers

Venue

The symposium takes place in the seminar room 202 at the Institute of Inorganic Chemistry of RWTH Aachen University.

Institute of Inorganic Chemistry

Landoltweg 1
52064 Aachen
Phone: +49 241 80 94645

Hotel Quellenhof

Monheimsalle 52
52062 Aachen
Phone: +49 241 91320

RWTH Aachen Guest House

Melatener Str. 31
52074 Aachen
Phone: +49 241 8024074

Restaurant Elisenbrunnen, September 19th

Büchel 39
52062 Aachen
Phone: +49 241 94313490

Restaurant Ratskeller, September 21st (PIs)

Markt 40
52062 Aachen
Phone: +49 241 35001

Restaurant Burgeria, September 21st (Students)

Templergraben 20
52062 Aachen
Phone: +49 241 6669

Contact Persons

Dr. Michael E. Tauchert: +49 173 1698801
Tobias Schindler, M. Sc.: +49 157 71900323

Wi-Fi connection during the symposium

To use the guest account

- Scan QR code *or*
- Connect to the Wi-Fi "mops"
- Enable DHCP (automatically obtain IP address)
- Try to visit any website
- Follow the link to guest login
- Login with your login and password

Login: September21
Password: hjsosu

