

PROGRAMME

Tuesday, September 1st, 2015

Venue: Institute of Inorganic Chemistry, Landoltweg 1, Room 202, 52056 Aachen

10:00	Welcome
	Prof. Dr. Jun Okuda Spokesman SeleCa, RWTH Aachen University
	Prof. Dr. Rudolf Mathar Vice-Rector for Research and Structure RWTH Aachen University
Chair:	Daniel Hack, M.Sc.
10:10	Plenary Lecture Prof. Dr. Parisa Mehrkhodavandi, University of British Columbia <i>Chiral Indium and Zinc Catalysts for the Living and Immortal Polymerization of Cyclic Esters</i>
10:55	Julian Kleemann, M.Sc. RWTH Aachen University <i>Polymetallic Catalysts for the Copolymerization of Cyclohexene Oxide with CO₂: Metalla-Crown Ethers as Ligands for Rare Earth Metals</i>
11:10	Dr. Michael Tauchert, RWTH Aachen University <i>Synthesis and Properties of Palladium Complexes Featuring Diphosphinoborane Ligands</i>
11:30 – 11:50	Coffee Break
Chair:	Sebastian Guski, M.Sc.
11:50	Prof. Dr. Takashi Hayashi, Osaka University <i>Construction of a Biohybrid Catalyst Using an Apo-Form of a Hemoprotein</i>
12:20	Daniel Sauer, M.Sc. RWTH Aachen University <i>β-Barrel Protein as Scaffold for Biohybrid Catalysis: Activation of C-C Tripple Bonds</i>
12:35	Alexander Grimm, M.Sc. RWTH Aachen University <i>Protein Engineering of FhuA and Nitrobindin for Hybrid Catalysts</i>
12:50	Dr. Tobias Beck, RWTH Aachen University <i>Superstructured Protein-Based Nanomaterials</i>
13:10 – 14:30	Lunch Break

13:10 – 14:30	Lunch Break
Chair:	Steffen Mader, M.Sc.
14:30	Prof. Dr. Markus Albrecht, RWTH Aachen University <i>A Highly Specific Luminescent Lanthanide(III) Receptor for anions – Is Selectivity just an Illusion?</i>
15:00	Ass. Prof. Dr. Kazuhiro Takenaka, Osaka University <i>Catalytic Cyclative Haloacetoxylation Based on Palladium Enolate Umpolung</i>
15:20	Makoto Sako, M.Sc. Osaka University <i>Vanadium(V)-Catalyzed Enantioselective C-C Bond Formation Reactions</i>
15:35	Rebekka Bohmann, M.Sc. RWTH Aachen University <i>Rhodium-Catalyzed Direct Coupling of Aromatic Benzothioamides with Alkenes</i>
15:50 – 16:10	Coffee Break
Chair:	Kai Rohmann, M.Sc.
16:10	Prof. Dr. Shinobu Itoh, Osaka University <i>Direct Hydroxylation of Benzene to Phenol using Hydrogen Peroxide Catalyzed by Nickel Complexes Supported by Pyridylalkylamine Ligands</i>
16:40	Tsukasa Abe, M.Sc. Osaka University <i>Geometric Control of Cu(I)/O₂-Reactivity by Using a Series of Cyclic-Diamine Ligands</i>
16:55	Dipl.-Ing. Sanel Suljic, FZ Jülich <i>Multi-Copper Oxidases in Organic Synthesis</i>
17:10	Kaname Shibata, M.Sc. Osaka University <i>The Alkylation of C-H Bonds in Aromatic Amides with α,β-Unsaturated Lactones of Dihydrofurans Catalyzed by Rhodium Complexes via a Bidentate-Chelation Assistance</i>
18:00	Dinner at "Elisenbrunnen"

Wednesday, September 2nd, 2015

Venue: Institute of Inorganic Chemistry, Landoltweg 1, Room 202, 52056 Aachen

Chair:	Hannah Baars, M.Sc.
09:30	Plenary Lecture Prof. Dr. Sensusuke Ogoshi, Osaka University <i>Transformation of Tetrafluoroethylene via Transition Metal Intermediates</i>
10:15	Haruka Nishiyama, M.Sc. Osaka University <i>Synthesis and Transformation of Tungsten Alkylidyne Complexes Bearing Sulfur- and Oxygen-containing Tetradentate Ligand</i>
10:30	Michael J. Lopez, M.Sc. Osaka University <i>Hydroalkylation of Alkynes via C(SP³)-H Bond Activation of 2,6-Dimethyl-N-Heterocycles by Cationic Alkylhafnium Complexes with Tridentate Nitrogen-Based Ligands</i>
10:45	Prof. Dr. Masahiro Miura, Osaka University <i>Rhodium-Catalyzed Annulative Coupling of Arylated Heteroarenes with Alkynes</i>
11:15	Jendrik Wülbern, M.Sc. RWTH Aachen University <i>Hydrogenation of CO₂ – Experiment vs. DFT</i>
11:30 – 11:50	Coffee Break
Chair:	Lena Meißner, M.Sc.
11:50	Prof. Dr. Jochen Büchs, RWTH Aachen University <i>Online Monitoring of Fermentation Processes via Non-Invasive Low-Field NMR</i>
12:20	Hiroyuki Ohashi, M.Sc. Osaka University <i>Novel L-Galactosyltransferase activity: A Key to the Elucidation of Plant Cell Wall Biosynthesis</i>
12:35	Phan Nguyen Thuy An, M.Sc. Osaka University <i>Metabolomic Profiling of Drosophila melanogaster Metamorphosis</i>
12:50 – 14:10	Lunch Break

PROGRAMME

12:50 – 14:10 Lunch Break

Chair: Julien Engel, M.Sc.

14:10 Prof. Dr. Iris Oppel, RWTH Aachen University
Supramolecular Coordination Compounds and their Application in Catalysis

14:40 Christian Göb, M.Sc. RWTH Aachen University
A New Synthesized Ligand Class, its First Coordination Compounds and Possible Applications

14:55 Prof. Dr. Yoshito Tobe, Osaka University
Reversal of Supramolecular Chirality at Solid-Liquid Interface via two Competing Induction Mechanisms

15:25 Kohei Iritani, M.Sc. Osaka University
Construction of Two-Dimensional Cyclic Array of Zinc Porphyrin Derivative and Binding of Fullerene

15:40 – 16:00 Coffee Break

Chair: Manja Henze, M.Sc.

16:00 Prof. Dr. Eiichiro Fukusaki, Osaka University
*Metabolomic Approach for Improving Ethanol Stress Tolerance in *Saccharomyces cerevisiae**

16:30 Yudai Dempo, M.Sc. Osaka University
Stable Isotope-Assisted Analysis for Cyanobacterial TCA Cycle by Integrating Multiple Analytical Systems

16:45 Risa Harada, M.Sc. Osaka University
Metabolomics-Based Investigation of Component Changes in Soy Sauce Fermentation

17:00 Prof. Dr. Lars Blank, RWTH Aachen University
Whole-cell Biocatalysis for the Production of Valuable Molecules from Renewable Ressources

17:30 Prof. Dr. Kazuhito Fujiyama, Osaka University
Characterization and Application of Plant Glycosyltransferase for Plant Secondary Metabolite Engineering

18:00 Closing Remarks

Prof. Dr. Kazushi Mashima

18:30 Dinner