

PROGRAM

Joint Symposium Aachen – Osaka

Tuesday, September 6th, 2016

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

Welcome

10:00 Prof. Dr. Jun Okuda, Spokesperson SeleCa, RWTH Aachen University

Dr. Henriette Finsterbusch, Director, International Office, RWTH Aachen University

Dr. Gerit Sonntag, Program Director, German Research Foundation (DFG)

Chair: Mr. Alexander Grimm, M. Sc.

10:10 Prof. Dr. Kazuhito Fujiyama, M. Sc., Osaka University
"Production of Glucocerebrosidase by Glyco-Engineered Plant"

10:40 Ass. Prof. Dr. Takao Ohashi, Osaka University
"Novel Membrane-Bound Type Plant Pectin-Degrading Enzyme"

11:00 Ms. Roxanne Krug (née Tschersich), M. Sc., Jülich Research Center
"Laccases & Tyrosinases in Organic Synthesis"

11:15 Ms. Patricia Liebhäuser, M. Sc., RWTH Aachen University
"Tyrosinase Model Complexes with Bis(pyrazolyl)methane Ligands"

11:30 – 11:50 Coffee Break
Chair: Mr. Andreas Thiel, M. Sc.

11:50 Prof. Dr. Jörg Pietruszka, Jülich Research Center
"Chemo-Enzymatic Production of Prodiginines"

12:20 Ms. M. A. Stephanie Mertens, M. Sc., RWTH Aachen University
"Hybrid Catalysts for Selective Tandem Reactions"

12:35 Mr. Marc Hayes, M. Sc., Jülich Research Center
"Glycosynthases: A New Approach to Screening and Characterisation"

12:50 Mr. Hirofumi Harada, M. Sc., Osaka University
"In Situ Visualization of an Interdomain Motion in Cellobiose Dehydrogenase Anchored on a Heme-Modified Gold Surface Using High-Speed Atomic Force Microscopy"

13:05 – 14:25 Lunch Break
Chair: Mr. Steffen Mader, M. Sc.

14:25 Prof. Dr. Carsten Bolm, RWTH Aachen University
"Catalyses in Ball Mills"

14:55 Mr. Kazutaka Takamatsu, M. Sc., Osaka University
"Copper-Mediated Decarboxylative Coupling of Benzamides with Benzoic Acids via Directed C-H Cleavage"

15:10 Assoc. Prof. Dr. Koji Hirano, Osaka University
"Synthesis of α -Aminoboronic Acid and -silane Derivatives by Copper-Catalyzed Electrophilic Amination"

15:30 Ass. Prof. Dr. Takanori Iwasaki, Osaka University
"Nickel-Catalyzed Dimerization and Alkylarylation of 1,3-Dienes with Alkyl Fluorides and Aryl Grignard Reagents"

15:50 – 16:10 Coffee Break
Chair: Mr. Christian Göb, M. Sc.

16:10 Prof. Dr. Yoshihito Tobe, Osaka University
"Toward Periodical Modification of Graphite/Graphene Surfaces"

16:40 Mr. Kohei Iritani, M. Sc., Osaka University
"STM Observations of Complexation with Cyclic Array of Zinc Porphyrins at Liquid/Solid Interface"

16:55 Mr. Ayumu Ogawa, M. Sc., Osaka University
"Synthesis of a Cobalt Tetrahydrocorrin Complex Toward Catalytic CO₂ Reduction"

17:10 Mr. David van Craen, M. Sc., RWTH Aachen University
"Hierarchical Helicates – A Versatile Supramolecular Motif"

18:00 Dinner at "Elisenbrunnen"

Wednesday, September 7th, 2016

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Chair: Ms. Ann-Kristin Wiegand, M. Sc.

9:30 Prof. Dr. Sonja Herres-Pawlis, RWTH Aachen University
"Fe^{II}, Zn^{II} and Cu^{II} Bis(pyrazolyl)methane Complexes for Lactide Polymerisation"

10:00 Ass. Prof. Dr. Haruki Nagae, Osaka University
"Reactivity of η^3 -Allenyl- and Propargyltitanium Complexes Toward Insertion Reaction of C=N Double Bonds"

10:20 Mr. Tobias Schindler, M. Sc., RWTH Aachen University
"Group 6 Metal Complexes Featuring Tetradentate Bis(phenolate) Ligands"

10:35 Mr. Supriya Rej, M. Sc., Osaka University
"Mixed Ligated Tris(amidinate)dimolybdenum Complexes as Catalysts for Radical Addition of CCl₄ to 1-Hexene: Leaving Ligand Liability Controls Catalyst Activity"

10:50 Ms. Abhinanda Kundu, M. Sc., Osaka University
"Directed C-H Aminoalkylation of 2-Substituted Pyridine Derivatives Catalyzed by Yttrium Catalysts with N,N'-Diarylethylenediamido Ligands"

11:05 – 11:25 Coffee Break
Chair: Ms. Lu Lu, M. Sc.

11:25 Prof. Dr. Hiroaki Sasai, Osaka University
"Pd(II)-SPRIX Catalyzed Enantioselective Annulation of Alkenylindoles"

11:55 Mr. Kenta Kishi, M. Sc., Osaka University
"Enantioselective Synthesis of α -Methylidene- γ -Lactams via Amidation and Rauhut-Currier Reaction Sequence"

12:10 Mr. Hassan Osseili, M. Sc., RWTH Aachen University
"Alkali Metal Hydridotriphenylborates for Chemoselective Hydroboration Catalysis"

12:25 Mr. Kosuke Higashida, M. Sc., Osaka University
"Iridium(III)-Catalyzed (E)-Selective Semi-Hydrogenation of Alkynes Under Mild Conditions"

12:40 Mr. Masaya Hirano, M. Sc., Osaka University
"Iridium-Catalyzed Benzylic Carbon-Hydrogen Bond Silylation of 4-Alkylpyridine Derivatives"

12:55 – 14:15 Lunch Break
Chair: Ms. Anne-Katrin Bachon, Dipl.-Chem.

PROGRAM

14:15 Dr. Masahiko Yamada, Kaneka Corporation
*"Integrated Solutions to Non-Natural Amino Acids:
Selection and Combination of Synthetic Technology and
Biotechnology"*

14:40 Mr. Koji Machida, M. Sc., Kaneka Corporation
*"A Robust and Efficient Process of the HCV Protease
Inhibitor Key Intermediate"*

14:55 Prof. Dr. Lothar Elling, RWTH Aachen University
*"Enzyme Cascades for the Synthesis of Glycan
Oligomers and Their Presentation on Protein and
Polymer Scaffolds"*

15:25 – 15:45 Coffee Break
Chair: Mr. Marius Hoffmann, M. Sc.

15:45 Prof. Dr. Eiichiro Fukusaki, Osaka University
*"Metabolomics-Based Semi-Rational Improvement of 1-
Butanol Tolerance in Saccharomyces Cerevisiae"*

16:15 Ms. Teruko Matsuo, M. Sc., Osaka University
*"Development of Retention Index Prediction Model for
Annotation of Unknown Compounds for GC/MS-Based
Untargeted Metabolomics"*

16:30 Ms. Birthe Halmschlag, M. Sc.,
RWTH Aachen University
*"Metaboloic Engineering of Bacillus Subtilis for Enhanced
 γ -Polyglutamic Acid Production"*

16:45 Prof. Dr. Lars Blank, RWTH Aachen University
*"Maximizing the Redox Cofactor Regeneration Rate for
Redox Biocatalysis Using Whole-Cells"*

Closing Remarks

17:15 Prof. Dr. Kazushi Mashima, Spokesperson SeleCa,
Osaka University

18:00 Dinner