PROGRAM

SeleCa Workshop on Artificial Metalloenzymes

Monday, September 5th, 2016

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

Welcome

9:00 Prof. Dr. Jun Okuda
Spokesperson SeleCa,
RWTH Aachen University

Chair: Hassan Osseili, M. Sc.

9:10 Prof. Dr. Takashi Hayashi,
Osaka University
"A Heme Pocket is an Attractive Scaffold for Constructing a Hybrid Catalyst"

9:40 Daniel F. Sauer, M. Sc.,
RWTH Aachen University
"Construction of Artificial Metatheases"

9:55 Alexander Grimm, M. Sc.,
RWTH Aachen University
"Protein Engineering of Nitrobindin for Biohybrid Catalyst Development"

10:10 Prof. Dr. Ulrich Schwaneberg,
RWTH Aachen University
"Protein Engineering for Hybrid Catalysts"

10:40 – 11:10 Coffee Break

Chair: Andreas Thiel, M. Sc.

11:10 Prof. Dr. Osami Shoji,
Nagoya University
"Gaseous Alkane Hydroxylation by Cytochrome P450s Assisted by Decoy Molecules"

11:55 Ass. Prof. Dr. Jared C. Lewis,
University of Chicago
"Engineering Proteins for Selective Catalysis"

12:40 – 14:00 Lunch Break

Chair: Alexander Grimm, M. Sc.

14:00 Prof. Dr. Gerard Roelfes,
University of Groningen
"Design and Application of Artificial Metalloenzymes Based on the Transcription Factor LmrR"

14:45 Prof. Dr. Paul C. J. Kamer,
University of St Andrews
"Artificial Late Transition Metalloenzymes for Catalytic Carbonylation and Cross-Coupling Reactions"

15:30 – 16:00 Coffee Break

Chair: Daniel F. Sauer, M. Sc.

16:00 Prof. Dr. Robertus J. M. Klein Gebbink,
Utrecht University
"The Development of Semi-Synthetic Metallo-Enzymes Through Active-Site Directed Covalent Anchoring"

16:45 Prof. Dr. Romas J. Kazlauskas,
University of Minnesota
"'Non-Catalytic' Residues Contribute to Hydrolysis and Lyase-Type Reactions in α/β-Hydrolase-Fold Enzymes"

17:30 End Workshop and Dinner