



JSPS
Japan Society for the Promotion of Science
Core-to-Core Program

Core-to-Core Joint Symposium

February 2nd 2018
Münster

Queen`s University, Kingston
Kyoto University
Westfälische Wilhelms-Universität Münster
Nagoya University

Location:
CeNTech Building
Heisenbergstraße 11
D-48149 Münster
Germany

Thursday, February 1st 2018

Students' Coming Together
(06:30 pm)

Restaurant „Caputo's“
Königsstraße 59
D-48143 Münster

Principal Investigators' Coming Together
(07:00 pm)

Restaurant „Aposto“
Alter Steinweg 21
D-48143 Münster

Friday, February 2nd 2018

Symposium Location: CeNTech building, Heisenbergstr. 11, D-48149 Münster

08:45 am Opening

Session 1, Chair: Mr. Henning Klaasen

08:50 am Prof. Shigehiro Yamaguchi (Nagoya)
Design Strategy for π -electron materials based on structural constraint

09:15 am Prof. Cathleen Crudden (Kingston)
Metal catalysts, clusters and surfaces: Catalytic preparation of chiral bio-molecules and carbon-based self assembled monolayers

09:40 am Prof. Bart-Jan Ravoo (Münster)
Responsive soft materials made by self-assembly

10:05 am Prof. Masaharu Nakamura (Kyoto)
Iron-Catalyzed Oxidative Amination via Biomimetic Bimetallic Mechanism

10:30 am Coffee Break

Session 2, Chair: Mrs. Jessica Exner

11:00 am Prof. Kazuyuki Tatsumi (Nagoya)
Fusion of All-ferric $[\text{Fe}_4\text{S}_4(\text{SAr})_4]$ Cubanes to Generate the Nitrogenase P-Cluster $[\text{Fe}_8\text{S}_7]$ Core

11:25 am Felicitas Lips (Münster)
Diradicaloid or Zwitterionic: The Non-tetrahedral Unsaturated Compound $[\text{Si}_4\{\text{N}(\text{SiMe}_3)\text{Dipp}\}_4]$ with a Butterfly-type Si_4 Substructure

11:50 am Susumu Saito (Nagoya)
Catalytic hydrogen management of renewable chemical feedstock: hydrogenation under dark and dehydrogenation under light

12:15 Ryan Gilmour (Münster)
Spatio-temporal Control of Pre-existing Alkene Geometry

12:40 Lunch

01:00 pm Poster Session

Session 3, Chair: Ms. Frauke Weidlich

02:30 pm Prof. Atsushi Wakamiya (Kyoto)
Materials Required for Efficient Perovskite Solar Cells

02:55 pm Prof. Olga García Mancheño (Münster)
New trends in anion-binding catalysis

03:20 pm Prof. Kentaro Tanaka (Nagoya)
Switchable Supramolecular Conjugates of Porphyrin and Phthalocyanine

03:45 pm *Coffee Break*

Session 4, Chair: Dr. Taiki Hayashi

04:15 pm Shigeru Yamago (Kyoto)
*Recovery and Recycling of Tellurium in
Organotellurium-mediated Radical Polymerization*

04:40 pm Andrea Rentmeister (WWU)
*Expanding the scope of methyltransferases:
precise manipulation of large nucleic acids to tune biological functions*

05:05 pm Kenichiro Itami (Nagoya)
Exploring Molecular Nanocarbon Science

Closing Remarks

*Symposium Dinner
(07:00 pm)*

Restaurant „Altes Gasthaus Leve“
Alter Steinweg 37
D-48143 Münster

Poster Contributions (alphabetical list, presenting author given)

Mr. Patrick Bentler	Are Stereoelectronic Effects Additive or Cooperative?
Ms. Weijia Fan	Living emulsion polymerization of methyl methacrylate using water soluble organotellurium compounds
Mr. Kiron Kumar Gosh	Pd-Catalyzed β -C(sp ³)-H Arylation of Propionic Acid and Other Related Aliphatic Acids
Mr. Masahiro Hayakawa	Tuning of molecular alignment and electronic structure of π -electron systems by sulfur-containing medium-ring fused thiophene
Mr. Atsushi Hosokawa	Photo-induced Catalyst-free Coupling of Ketone with Amine
Mr. Masato Ito	Donor- π -acceptor Type Unsymmetrically-substituted Triarylborane Fluorophores
Mr. Florian Klepel	Identification of Synthetic Peptide and Carbohydrate Receptors from a Dynamic Combinatorial Library
Mr. Max Kock	Chiral Pool Synthesis of Bicyclo[3.1.0]hexane-based Ribose Bioisosters - A Crucial Scaffold for Modulating Purinergic Signalling Pathways
Mr. Jan Lemmerhirt	New bicyclo[3.1.0]hexane-based ligands targeting the P2Y1 receptor
Ms. Jasmin Marek	Why DNA Is a More Effective Scaffold than RNA in Nucleic Acid-Based Asymmetric Catalysis / Supramolecular Control of Cooperative Effects
Ms. Anja Massolle	Experimental" EPR Parameters through First-Principles Computation
Ms. Beatriz Matarranz García-Patos	BODIPY-based Metallosupramolecular Structures
Mr. Soren Møllerup	Exploring Asymmetry in Photoresponsive N,C-Chelate Organoboron Systems: Hydride Migration vs. C-X Bond Activation/Insertion
Ms. Lena Pitzer	Intermolecular Radical Addition to Carbonyls Enabled by Hole Catalysis
Mr. Lyuming Wang	N-Alkylation of Functionalized Amines with Alcohols Using a Copper/Gold Mixed Photocatalytic System
Mr. Mario Wiesenfeldt	Chemoselective Hydrogenation of Fluorinated Arenes
Ms. Maren Wissing	Mixed-Metal-Nanoparticles as Highly Active Catalysts for the Semi-Hydrogenation of Alkynes
Mr. Ryota Yamada	Bump and hole approach to control auxin signaling

Symposium Contact

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Symposium Partner



Synergistic Effects
in Chemistry - From
Additivity towards Cooperativity

