

Core-to-Core Joint Symposium Final Program

Queen's University, Kingston, Ontario, K7L 3N6 Canada

June 28th, 2016

19:00 Dinner at Curry Original Restaurant, 253 Ontario Street

June 29th, 2016

Symposium Chernoff Hall, Department of Chemistry, Room 117

8:45-8:55 Opening Remarks, Prof. Suning Wang and Prof. Shigehiro Yamaguchi

Chair: Prof. Shigehiro Yamaguchi (Nagoya University)

8:55-9:20 Prof. Susumu Saito (Nagoya University)

Catalytic Hydrogen Management Using Molecular- and Photo-Catalysis: Chemical Transformation of Biomass-Related Inert Compounds

9:20-9:45 Prof. Martin Oestreich (Technische Universität Berlin)

Friedel-Crafts-Type C-H Bond Silylation

9:45-10:10 Prof. Phillip Jessop (Queen's University)

Applications of CO₂ in Catalysis

10:10-10:35 Prof. Masaharu Nakamura (Kyoto University)

Enantioselective Carbometalation/Ring-Opening Reactions of Oxa- and Azabicyclic Alkenes under Iron Catalysis

10:35-11:00 *Break (Group Photo) (the Lounge Area on the first floor of Chernoff Hall)*

Chair: Prof. Armido Studer (Universität Münster)

11:00-11:25 Prof. Gerhard Erker (Universität Münster)

Advanced 1,1-Carboboration Reactions

11:25-11:50 Prof. Shigehiro Yamaguchi (Nagoya University)

Phosphorus-containing Fluorophores for Bioimaging

11:50-12:15 Prof. Cathleen Crudden (Queen's University)

N-Heterocyclic Carbenes: Catalytic, Main Group and Materials Applications

- 12:15-12:40 Prof. Atsushi Wakamiya (Kyoto University)
Molecular Design of Organic Semiconductors for Highly Efficient Perovskite Solar Cells
- 12:40-13:40 *Lunch at the University Club (Reserved)*
- Chair: Prof. Atsushi Wakamiya (Kyoto University)*
- 13:40-14:05 Prof. Suning Wang (Queen's University)
In Search of Deep-Blue Phosphors Based on Pt(II) Compounds for OLEDs
- 14:05-14:30 Prof. Kentaro Tanaka (Nagoya University)
Liquid Crystal and Two Dimensional Assembly of Macrocycles
- 14:30-14:45 Dengtao Yang (Wang group, Queen's University)
Controlling Molecular Transformations of BN-Heterocycles: Photoisomerization vs Photoelimination
- 14:45-15:00 Nozomi Mihara (Tanaka Group, Nagoya University)
Catalytic Reactions of Supramolecular Heterodimers Composed of Porphyrin and Phthalocyanine
- 15:00-15:15 Jason Rygus (Crudden group, Queen's University)
Iterative, Protecting Group Free Suzuki-Miyaura Coupling of Enantioenriched Polyboronates
- 15:15-15:30 Lyuming Wang (Saito Group, Nagoya University)
Photocatalytic N-Alkylation of Amines with Alcohols for Pharmaceutical Synthesis
- 15:30-15:55 *Break (the Lounge Area on the first floor of Chernoff Hall)*
- Chair: Prof. Cathleen Crudden (Queen's University)*
- 15:55-16:20 Prof. Andrew Evans (Queen's University)
Development of New Higher-Order Carbocyclization Reactions: Emulating Terpene Biosynthesis

- 16:20-16:45 Prof. Armido Studer (Universität Münster)
Electron-catalysis
- 16:45-17:10 Prof. Shigeru Yamago (Kyoto University)
Synthesis of Structurally Controlled Branched Polymers Based on Living Radical Polymerization
- 17:10-17:35 Prof. Kazuyuki Tatsumi (Nagoya University)
Tinkertoy Construction of the Nitrogenage P-Cluster Core: Oxidation States of Iron and Iron/Sulfur Stoichiometry
- 17:35-17:45 Closing Remarks: Prof. Cathleen Crudden
- 19:15 Dinner at the Delta Hotel, 1 Johnson St