

The 17th Joint Symposium of Core-to-Core/IRTG Programs on Elements Function for Transformative Catalysis and Materials

– Nagoya, Kyoto, Münster, Berlin, Queen’s –

June 12 - 13, 2014. Noyori Materials Science Laboratory.

June 12th

10:00- Opening address: Prof. Shigehiro Yamaguchi

Chair: Prof. Shigehiro Yamaguchi

10:05-10:35 Assoc. Prof. Yasuhiro Ohki

“Synthesis and Reactions of Coordinatively Unsaturated Iron Complexes of
N-Heterocyclic Carbenes”

10:35-11:05 Prof. Ernst-Ulrich Würthwein

“Unsaturated C=N- and C=N-B- Compounds: Synthesis, Light Absorption and
Emission”

11:05-11:20 Mr. Aulia Sukma Hutama (Irle group)

“Density-Functional Tight-Binding Automated Parameterization of Zr-Zr and
Zr-O Repulsive Potentials”

******* 11:20-11:35 Coffee Break *******

Chair: Prof. Kazuyuki Tatsumi

11:35-12:05 Prof. Kentaro Tanaka

“Hierarchical Construction of Soft Coordination Materials ”

12:05-12:35 Prof. Jens Müller

“A family of "click" nucleosides for metal-mediated base pairing”

12:35-12:50 Ms. Chihiro Nanjo (Awaga Group)

“Ambipolar Transport in Phase-Separated Thin-Films of p- and n-Type Vanadyl
Porphyrazines with Two-Dimensional Percolation”

***** 12:50-14:10 Lunch *****

Chair: Assoc. Prof. Shinya Hagihara

14:10-14:40 Assoc. Prof. Atsushi Wakamiya (Kyoto University)

“Molecular Design for Organic Electronics Materials Based on Fine-tuning of the Electronic Structure”

14:40-14:55 Mr. Christoph Rosorius (Erker group – Itami group 2012)

“Reactions of Allenyl- and Propargyl Substituted Dimesitylphosphanes with Electrophilic Boranes”

14:55-15:10 Mr. Takehiro Fujita (Yamago group, Kyoto University)

“Stereospecific radical polymerization of acrylimides bearing chiral oxazolidinones”

15:10-15:40 Prof. Hans-Ulrich Humpf

“Apicidin F: A new secondary metabolite with antimalarial activity from *Fusarium fujikuroi*”

15:40-16:30 *Poster Session*

(**16:30-18:00 *Discussion for New Joint Partners***)

18:00- *Reception (Restaurant “Hananoki”)*

June 13th

Chair: Prof. Shigeru Yamago

9:30-10:00 Prof. Gerhard Erker

“1,1-Carboboration: Some recent results”

10:00-10:30 Prof. Masaharu Nakamura (Kyoto University)

“Iron-Catalyzed Aromatic Amination and Related Coupling Reactions”

10:30-10:45 Ms. Friederike Sibbel (Studer group – Itami group 2013)

“Selective Synthesis of [7] and [8] Cycloparaphenylenes”

10:45-11:00 Mr. Kei Muto (Itami group)

“Ni-Catalyzed C-H/C-O Coupling: Development and Mechanistic Studies”

***** 11:00-11:15 Coffee Break *****

Chair: Assoc. Prof. Osami Shoji

11:15-11:45 Prof. Armido Studer

“The Electron as a Catalyst!”

11:45-12:15 Assoc. Prof. Masayasu Taki (Yamaguchi group)

“Fluorescence Imaging of Living Cells with Metal Complexes”

12:15-12:30 Mr. Tobias Greulich (Studer group – Yamaguchi group 2013)

“A novel π -conjugated push-pull system - Synthesis of a bis(phosphoryl)-bridged benzidine”

***** 12:30-14:00 Lunch *****

Chair: Assoc. Prof. Susumu Saito

14:00-14:30 Prof. Bernhard Wünsch

“Synthesis and Pharmacological Evaluation of GluN2B Selective NMDA Receptor Antagonists”

- 14:30-14:45 Dr. Foo Siong Wan (Noyori group – Wunsch group 2014-2015)**
“Dimerization of amino alcohols:k-opioid agonists synthesis and development of its catalytic synthesis”
- 14:45-15:00 Ms. Janine Fröhlich (Wunsch group – Noyori group 2013)**
“Synthesis of kappa receptor agonists with 2-azabicyclo[3.2.1]framework”
- 15:00-15:30 Dr. Ralph Holl (Kitamura group 2006)**
“Synthesis and biological evaluation of benzyloxyacetohydroxamic acid-derived LpxC inhibitors”
- 15:30-15:45 Ms. Friederike Kettling (Ravoo group – Noyori group 2013)**
“TiO₂ Nanoparticles - A Versatile Photocatalyst for Spatially Resolved Surface Reactions”
- 15:45- Closing Remarks : Prof. Gerhard Erker**