

The 7th Hong Kong-Shanghai-Münster Joint Trilateral Symposium on Organometallic Chemistry

P3, CYM Chemistry Building

8–9 June, 2017

HONG KONG



SHANGHAI



MÜNSTER



Organized by
State Key Laboratory of Synthetic Chemistry, Department of Chemistry, The University of Hong Kong

The 7th Hong Kong–Shanghai–Münster Joint Trilateral Symposium on Organometallic Chemistry

8–9 June, 2017

Scientific Program

Thursday, 8 June 2017

8:45 – 9:00 Opening Remarks: Prof. Chi-Ming Che (HKU)

Session 1 (9:00 – 10:30) Chair: Prof. Chi-Ming Che (HKU)

9:00 – 9:30 *Molecular Borromean Rings Based on Half-Sandwich Metal Fragments*
Prof. Guo-Xin Jin (Fudan)

9:30 – 10:00 *Asymmetric Direct Transformations of Aromatic Compounds*
Prof. Shu-Li You (SIOC)

10:00 – 10:30 *Frustrated Lewis Pair Chemistry: Some Recent Results*
Prof. Gerhard Erker (WWU)

10:30 – 10:50 Coffee Break

Session 2 (10:50 – 12:40) Chair: Prof. Zuowei Xie (CUHK)

10:50 – 11:20 *Recent Advances in Selective Halogenation Reactions*
Prof. Ying-Yeung Yeung (CUHK)

11:20 – 11:40 *A Study on the Formation Mechanism of a Novel Iridium Complex*
Mr. David Schnieders (WWU)

11:40 – 12:10 *New Reaction Pathways for (σ -Alkenyl)-Chelating Post-Metallocenes: Adopting a Shape-Persistent Bimetallic Design Approach*
Dr. Michael Chi-Wang Chan (CityU)

12:10 – 12:40 *On Discovery in Catalysis*
Prof. Frank Glorius (WWU)

12:40 – 14:00 Lunch Break

Session 3 (14:00 – 15:40) Chair: Prof. Michael Fuk-Yee Kwong (CUHK)

14:00 – 14:30 *Supramolecular Chemistry with poly-NHC Ligands*
Prof. F. Ekkehardt Hahn (WWU)

14:30 – 14:50 *(Enantio)selective Arene Hydrogenation*
Mr. Mario Wiesenfeldt (WWU)

14:50 – 15:20 *New Chemistry in Biomolecule Synthesis*
Dr. Xuechen Li (HKU)

15:20 – 15:40 *Reactivities of TEMPO/B(C₆F₅)₃ Frustrated Lewis Pair*
Dr. Xin Tao (WWU)

15:40 – 16:00 Coffee Break

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Session 4 (16:00 – 17:50) Chair: Dr. Cong-Ying Zhou (HKU)

- 16:00 – 16:30 *Regioselective Synthesis of Polycyclic and Heptagon-Embedded Aromatic Compounds via a Versatile π -Extension of Aryl Halides*
Prof. Michael Fuk-Yee Kwong (CUHK)
- 16:30 – 16:50 *Transmetallation Reactions of NR, O-NHC Ligands*
Mr. Martin Meier (WWU)
- 16:50 – 17:20 *Bromiranium Ions as Highly Reactive Brominating Agents for Demanding Halocyclizations*
Prof. Ulrich Hennecke (WWU)
- 17:20 – 17:50 *Synthesis of Heterocycles Based on α -Imino Rhodium Carbene Complexes*
Prof. Min Shi (SIOC)

Close of the First Day

Friday, 9 June 2017

Session 5 (9:00 – 10:30) Chair: Dr. Xuechen Li (HKU)

- 9:00 – 9:30 *Oxidative Carbene Catalysis*
Prof. Armido Studer (WWU)
- 9:30 – 10:00 *Copper-Catalyzed Asymmetric Radical Transformations*
Prof. Guosheng Liu (SIOC)
- 10:00 – 10:30 *Nucleophilic Substitution Reaction of Cage B-H of Carboranes by Grignard Reagents*
Prof. Zuowei Xie (CUHK)
- 10:30 – 10:50 Coffee Break

Session 6 (10:50 – 12:40) Chair: Dr. Xiao-Shui Peng (CUHK)

- 10:50 – 11:20 *NHC-Based Coordination Polymers as Solid Molecular Catalysts toward Biomass Transformation*
Prof. Tao Tu (Fudan)
- 11:20 – 11:50 *Highly Electron-Rich Phosphines in Action – New Perspectives in Catalysis and for Small Molecule Activation*
Dr. Fabian Dielmann (WWU)
- 11:50 – 12:10 *Light Mediated Preparation of Metal Nanoparticles and Their Application in Catalysis*
Mr. Florian Mäsing (WWU)
- 12:10 – 12:40 *Dual-Catalytic Radical Asymmetric Functionalization of Alkenes*
Dr. Xin-Yuan Liu (SUSTC)
- 12:40 – 14:00 Lunch Break

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Session 7 (14:00 – 15:50) Chair: Dr. Xin-Yuan Liu (SUSTC)

14:00 – 14:30 *Activation of Small Molecules by N-Heterocyclic Carbene Stabilized Borenium Cations*

Prof. Huadong Wang (Fudan)

14:30 – 15:00 *Gold Catalysis for Organic Synthesis and Bioconjugation*

Dr. Man-Kin Wong (PolyU)

15:00 – 15:20 *Radical-Polar Crossover Reactions of Vinylboronate Complexes*

Mr. Marvin Kischkewitz (WWU)

15:20 – 15:50 *Redox Active and Multi-Component Metal-Organic Frameworks*

Prof. Qiaowei Li (Fudan)

15:50 – 16:10 Coffee Break

Session 8 (16:10 – 18:00) Chair: Prof. Chi-Ming Che (HKU)

16:10 – 16:40 *- Al/P-Based FLPs - P-H Functionalized Derivatives and Reactions with α,β -Unsaturated Carbonyl Compounds*

Prof. Werner Uhl (WWU)

16:40 – 17:00 *Total Synthesis of Shizukaol E and Deoxoapodine*

Dr. Xiao-Shui Peng (CUHK)

17:00 – 17:30 *Structure and Reactivity of a New Butterfly-Type Tetrasilatetramide*

Dr. Christian Mück-Lichtenfeld (WWU)

17:30 – 18:00 *Mononuclear Rare-Earth Metal Alkylidene Complexes: Synthesis, Structure and Reactivity*

Prof. Yaofeng Chen (SIOC)

18:00 – 18:15 Closing Remarks

Close of the Symposium