

SHANGHAI

MÜNSTER



The 4th
Hong Kong - Shanghai - Münster
Joint Trilateral Symposium
on Organometallic Chemistry

30 - 31 May 2014

T6, Meng Wah Complex,
The University of Hong Kong



HONG KONG



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WILHELMS-UNIVERSITÄT
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Scientific Program

Friday, 30 May 2014

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 **Organometallic Chemistry of Macrocycles and Cages**

Prof. Guo-Xin Jin (Fudan)

9:30 – 10:00 **Frustrated Lewis Pairs: Principle and Some Recent Results**

Prof. Gerhard Erker (WWU)

10:00 – 10:30 **The Asymmetric Ring-Opening Reactions of D-A Cyclopropanes and Related**

Prof. Yong Tang (SIOC)

10:30 – 10:50 Coffee Break

Session 2 (10:50 – 12:10) Chair: Dr. Michael Fuk-Yee Kwong (PolyU)

10:50 – 11:20 **Visual Recognition Based on Molecular Metallogels**

Prof. Tao Tu (Fudan)

11:20 – 11:50 **Borabenzene Rare-earth Metal Complexes: Synthesis, Structure and Reactivity**

Prof. Yaofeng Chen (SIOC)

11:50 – 12:10 **Synthesis and Reactions of Novel Zirconacycloalleneoids and Zirconocene Boryl Alkyne Complex**

Dr. Santhosh Kumar Podiyanchari (WWU)

12:10 – 13:30 Lunch Break

Session 3 (13:30 – 15:40) Chair: Prof. Pauline Chiu (HKU)

13:30 – 14:00 **Cycloadditions using Nitrosoarenes**

Prof. Armido Studer (WWU)

14:00 – 14:30 **Development of New Phosphine Ligands for Highly Sterically Hindered Cross-Coupling Reactions**

Dr. Michael Fuk-Yee Kwong (PolyU)

14:30 – 14:50 **N-Heterocyclic Carbenes as Organocatalysts**

Mr. Michael Schedler (WWU)

14:50 – 15:10 **Synthesis of Bipyrrrolidine Backbone Ligands and Their Application in Asymmetric Catalysis**

Dr. Zhen-Jiang Xu (SIOC)

15:10 – 15:40 **Organoboranes in Frustrated Lewis Pair Chemistry**

Prof. Huadong Wang (Fudan)

15:40 – 16:00 Coffee Break

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Session 4 (16:00 – 18:00) Chair: Dr. Cong-Ying Zhou (HKU)

16:00 – 16:30 **Hydroalumination of Unsaturated Nitrogen Compounds: Applications for the Synthesis of Polyfunctional Compounds**

Prof. Ernst-Ulrich Würthwein (WWU)

16:30 – 16:50 **Facile Synthesis of a Peptidic Au(I)-Metalloamphiphile and its Self-Assembly into Luminescent Micelles in Water**

Mr. Benedict Kemper (WWU)

16:50 – 17:10 **Elevated Catalytic Activity of Ruthenium(II)-Porphyrin-Catalyzed Carbene/Nitrene Transfer and Insertion Reactions with N-Heterocyclic Carbene Ligands**

Dr. Vanessa Kar-Yan Lo (HKU)

17:10 – 17:30 **New Intramolecular P/B FLPs Synthesized by Hydrophosphination**

Dr. Guo-Qiang Chen (WWU)

17:30 – 18:00 **Copper-Mediated Reductive Claisen Rearrangements**

Prof. Pauline Chiu (HKU)

Close of the First Day

Saturday, 31 May 2014

Session 5 (9:00 – 10:40) Chair: Prof. Chi-Ming Che (HKU)

9:00 – 9:30 **Quantum Chemical Insight into Transition-Metal Catalysis**

Prof. Johannes Neugebauer (WWU)

9:30 – 10:00 **Ditopic Pyridine Ligands for Supramolecular Chemistry**

Prof. Hoi-Lun Kwong (CityU)

10:00 – 10:20 **Double Frustration**

Dr. Gerald Kehr (WWU)

10:20 – 10:40 **N-Heterocyclic Carbene Functionalized Metal Nanoparticles: Influence of Substituents and Application in Catalysis**

Ms. Kira Schaepe (WWU)

10:40 – 11:00 Coffee Break

Session 6 (11:00 – 12:10) Chair: Mr. Yu-Man Chan (HKU)

11:00 – 11:30 **Single-Molecular Artificial Transmembrane Channels: Tubular and Helical Strategies**

Prof. Jun-Li Hou (Fudan)

11:30 – 11:50 **Vicinal Zr⁺/P Frustrated Lewis Pairs Formation by 1,1-Carbozirconation**

Dr. Xin Xu (WWU)

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11:50 – 12:10 **Living Alternating Polymerization via Nitroxide Mediated Polymerization (NMP) and Subsequent Orthogonal Functionalization**

Mr. Matthias Tesch (WWU)

12:10 – 13:30 Lunch Break

Session 7 (13:30 – 15:30) Chair: Prof. Hoi-Lun Kwong (CityU)

13:30 – 14:00 **Low-Valent Iron and Cobalt Complexes with Cyclic Amino Carbene Ligation**

Prof. Liang Deng (SIOC)

14:00 – 14:20 **Chemical Synthesis of Proteins via Ser/Thr Ligation**

Mr. Hiu-Yung Lam (HKU)

14:20 – 14:40 **Structure Determination in novel Carbo- and Heterocycle Forming Processes**

Dr. Ludger Tebben (WWU)

14:40 – 15:00 **Stable Silver Catalyst and Its Function on Diels-Alder Reaction with Axially Chiral Vinylallenes**

Mr. Yu-Man Chan (HKU)

15:00 – 15:30 **Postsynthetic Modification of Polycarbene-Derived Assemblies**

Prof. Ying-Feng Han (Fudan)

15:30 – 15:50 Coffee Break

Session 8 (15:50 – 17:40) Chair: Dr. Vanessa Kar-Yan Lo (HKU)

15:50 – 16:10 **Controlling the Reactivity of Supramolecular Monomers via pH**

Dr. Pol Besenius (WWU)

16:10 – 16:30 **Fe(F₂₀TPP)Cl Catalyzed C–N Bond Formation Reactions with Organo-azides and Aryl Amines as Nitrogen Source**

Dr. Yungen Liu (HKU)

16:30 – 16:50 **Functional Nanoparticles for Bioactive Surfaces and Scaffolds**

Dr. Nermin Seda Kehr (WWU)

16:50 – 17:10 **Rh(III)-Catalyzed Halogenation Reactions**

Mr. Nils Schröder (WWU)

17:10 – 17:40 **Cooperative Catalysis in Asymmetric Synthesis and CO₂ Transformation: Case Studies of Catalyst Design and Process Innovation**

Prof. Kuiling Ding (SIOC)

17:40 – 18:00 Closing Remarks: Prof. Guo-Xin Jin (Fudan)

Close of the Symposium