



9<sup>th</sup>

## Hong Kong – Shanghai – Münster

Joint Trilateral Symposium  
on Organometallic Chemistry

17-18 June 2019

Lecture hall O1

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Westfälische Wilhelms-Universität Münster  
Institute of Organic Chemistry



*Organized by the SFB 858 and the IRTG 2027*



## Joint Trilateral Symposium on Organometallic Chemistry

Monday, 17 June: (Registration (8:00 – 8:45))

8:45 – 9:00            Opening Remarks: Dr. Manuel van Gemmeren

*Session 1 – Chair: Prof. Dr. Olga García Mancheño*

- 9:00 – 9:30            **Dinuclear Metal Complexes with Metal-Metal Bonded Excited States. Photophysics and Photochemical Activation of C–H and C–X Bonds**  
Prof. Chi-Ming Che (The University of Hong Kong)
- 9:30 – 9:50            **Photoresponsive Surface Adhesion by Dynamic-Covalent Chemistry of Diarylethene Photoswitches**  
Mr. Christoph Buten (WWU Münster)
- 9:50 – 10:10          **New Reactions in On-Surface Chemistry**  
Mr. Henning Klaasen (WWU Münster)
- 10:10 – 10:30        **Nucleophile Screening in Anion-Binding Reissert-type Reactions of Quinolines with Chiral TetrakisTriazole Catalysts**  
Ms. Qui-Nhi Duong (WWU Münster)
- 10:30 – 10:45        Coffee Break

*Session 2 – Chair: Prof. Dr. Bart Jan Ravoo*

- 10:45 – 11:15        **Metal-carbene based Assemblies**  
Prof. Ekkehardt Hahn (WWU Münster)
- 11:15 – 11:45        **Unprecedented Reactivity of Strained Silicon Ring Compounds**  
Dr. Felicitas Lips (WWU Münster)
- 11:45 – 12:15        **Smart screening for assessment and discovery**  
Prof. Frank Glorius (WWU Münster)
- 12:15 – 12:35        **Insights into the complex self-assembly pathways of a chiral, oligophenyleneethynylene (OPE) based Pd(II) complex**  
Mr. Jonas Matern (WWU Münster)
- 12:35 – 13:30        Lunch Break

*Session 3 – Chair: Ms Sabine Bogner*

- 13:30 – 14:00        **C-N Bond Activation on Low-Coordinate Cobalt Species with NHC Ligation**  
Prof. Liang Deng (Shanghai Institute of Organic Chemistry)
- 14:00 – 14:20        **Highly Efficient Sulfonylation Reactions Catalyzed by Acenaphthoimidazolylidene Metal Complexes**  
Dr. Qingshu Zheng (Fudan University)
- 14:20 – 14:40        **Synthesis and Application of C-Bound Boron Enolates**  
Dr. Wang Hei Ng (The University of Hong Kong)
- 14:40 – 15:00        **Ir-Catalyzed Branch-Selective Allylic C–H Amidation**  
Tobias Knecht (WWU Münster)
- 15:00 – 15:20        **Contra-thermodynamic, photocatalytic E to Z isomerisation: Vectors to facilitate exploration of 2D chemical space**  
Dr. John J. Molloy (WWU Münster)
- 15:20 – 15:40        Coffee Break





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Session 4 – Chair: Dr. Christian Mück-Lichtenfeld

- 15:40 – 16:00 **Luminescent Cyclometalated Gold(III) Complexes and Their Applications**  
Dr. Kevin Wai-Pong To (The University of Hong Kong)
- 16:00 – 16:30 **Molecular Solomon and Borrean Rings**  
Prof. Guo-Xin Jin (Fudan University)
- 16:30 – 17:00 **Cobalt Complex-Catalyzed Cascade C–H Bond Activation, C–C Bond Cleavage and C–H Bond Cyclization Process**  
Prof. Michael Fuk-Yee Kwong (The Chinese University of Hong Kong)
- 17:00 – 17:20 **Borane-Induced C-C Bond Formations of Allenes**  
Dr. Xin Tao (WWU Münster)
- 17:20 – 17:40 **Synthesis of Complex Cyclic Peptide Antibiotic**  
Dr. Delin Chen (The University of Hong Kong)
- 17:40 – 18:00 **Reaction Energies from Automated "Exact" DFT Embedding**  
Mr. Moritz Bensberg (WWU Münster)

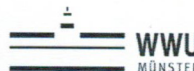
Tuesday, 18 June:

Session 5 – Chair: Dr. Manuel van Gemmeren

- 8:40 – 09:00 **Reaction-Specific Molecular Descriptors: The Metal-Hydride Vibration**  
Mr. David Schnieders (WWU Münster)
- 9:00 – 9:30 **When Transition Metal Catalysis Meets Electrochemistry**  
Prof. Tiansheng Mei (Shanghai Institute of Organic Chemistry)
- 9:30 – 10:00 **NHC-Based Coordination Polymers as Solid-Single-site Catalysts towards Biomass Transformations**  
Prof. Tao Tu (Fudan University)
- 10:00 – 10:30 **Activation of Metal Oxo and Nitrido Complexes by Lewis Acids**  
Prof. Tai-Chu Lau (The City University of Hong Kong)
- 10:30 – 10:45 Coffee Break (Conference Photo)

Session 6 – Chair: Dr. Johannes Wiest

- 10:45 – 11:15 **Directing Group-Free C–H Activation/Functionalization**  
Dr. Manuel van Gemmeren (WWU Münster)
- 11:15 – 11:35  **$\alpha$ -Alkynyl Iridium(III) Porphyrin Complexes: Structure and Catalysis towards Carbene C(sp<sup>3</sup>)-H Insertion Reactions**  
Dr. Vanessa Kar-Yan Lo (The University of Hong Kong)
- 11:35 – 11:55 **Radical Diversity-oriented Functionalization of Allylsulfonamides and Allylsulfones**  
Dr. Yong Xia (WWU Münster)
- 11:55 – 12:15 **Total Syntheses of (-)-Deoxoapodine, ( $\pm$ )-Kopsifoline D and ( $\pm$ )-Beninine**  
Dr. Xiao-Shui Peng (The Chinese University of Hong Kong)
- 12:15 – 12:35 **Visible-Light-Mediated Deaminative Functionalization Reactions**  
Dr. Michael James (WWU Münster)
- 12:35 – 13:30 Lunch Break





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### Session 7 – Chair: Dr. Felicitas Lips

- 13:30 – 14:00      **Artificial Water Channels**  
Prof. Junli Hou (Fudan University)
- 14:00 – 14:30      **Intracellular Delivery and Sensing by Polymer Nanocontainers based on Host-Guest Chemistry**  
Prof. Bart Jan Ravoo (WWU Münster)
- 14:30 – 14:50      **Bidentate NHC-Ligands on Metal Surfaces: A Computational Study**  
Ms. Melanie Börner (WWU Münster)
- 14:50 – 15:20      **Catalytic enantioselective synthesis of organometallic complexes containing a chiral carbon-metal bond and new reactivity**  
Prof. Fanke Meng (Shanghai Institute of Organic Chemistry)
- 15:20 – 15:40      Coffee Break

### Session 8 – Chair: Prof. Dr. Gerhard Erker

- 15:40 – 16:00      **A Radical Stetter Reaction Enabled by Merger of Ion-Pair Photocatalysis with Radical Umpolung**  
Mr. Tobias Morack (WWU Münster)
- 16:00 – 16:30      **New Benchmarks for Three-coordinate Phosphorus Species: From Superbasic Phosphines to Lewis Superacids**  
Dr. Fabian Dielmann (WWU Münster)
- 16:30 – 17:00      **Borenum in Small Molecule Activation**  
Prof. Huadong Wang (Fudan University)
- 17:00 – 17:20      **N-Heterocyclic Carbene Iron(III) Porphyrin-Catalyzed Intramolecular C(sp<sup>3</sup>)-H Amination of Alkyl Azides**  
Dr. Ka-Pan Shing (The University of Hong Kong)
- 17:20 – 17:40      **Double Cu-Catalyzed Direct Csp<sup>3</sup>-H Azidation/CuAAC Reaction**  
Mr. Tobias Brandhofer (WWU Münster)
- 17:40 – 18:00      **Reversibly Structural Transformation between Cp\*Ir-based Molecular Solomon Link and Unusual Trefoil Knot**  
Mr. Haining Zhang (Fudan University)
- 18:00                Closing Remarks – Prof. Dr. Gerhard Erker
- 19:00                Speakers Dinner at the restaurant "Drübelken"

