

The 1st Hong Kong-Beijing/Nanjing-London Joint Symposium on Frontier Inorganic Chemistry

P3, CYM Physics Building

14–16 May, 2018

HONG KONG



BEIJING



NANJING



LONDON



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14–16 May, 2018

Scientific Program

Monday, 14 May 2018

Venue: Ground Floor Lobby, Chong Yuet Ming Chemistry Building, Department of Chemistry

19:00 – 21:00 Welcoming Reception and Registration

Tuesday, 15 May 2018

Venue: Lecture Theatre P3, Chong Yuet Ming Physics Building, Department of Chemistry

8:45 – 9:00 Opening Remarks: Prof. Andy T.S. Hor (Vice-President of Research, HKU)

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

9:00 – 9:30 *Inorganic Chemistry for Biomedical Imaging*

Prof. Nicholas Long (Imperial)

9:30 – 10:00 *Molecular Design of Platinum Complexes for Active Targeting*

Prof. Zijian Guo (NJU)

10:00 – 10:30 *Engineering Lanthanide Luminescent Nanoparticles for Tumor Localization and Therapy*

Prof. Ling-Dong Sun (PKU)

10:30 – 11:00 Coffee Break

Session 2 (11:00 – 12:30) Chair: Dr. Wei Lu (SUSTC)

11:00 – 11:30 *From Simple Discrete Metal Complexes to Supramolecular Assembly, Nanostructures and Functions*

Prof. Vivian Wing-Wah Yam (HKU)

11:30 – 12:00 *Design, Synthesis and Application of Mechanically Robust Self-Healing Polymers*

Dr. Cheng-Hui Li (NJU)

12:00 – 12:30 *Shape-Persistent Molecular Architectures: Catalysis, New Reaction Pathways and Material Applications*

Dr. Michael Chi-Wang Chan (CityU)

12:30 – 14:00 Lunch Break

Session 3 (14:00 – 15:30) Chair: Prof. Jing-Lin Zuo (NJU)

14:00 – 14:30 *Phosphorescent N-Heterocyclic Allenylidene Complexes*

Dr. Wei Lu (SUSTech)

14:30 – 15:00 *Unusual Regiocontrol in the Carbon-Hydrogen Bond Aluminination of Arenes Catalysed by Pd-Al Intermetallics*

Dr. Mark R. Crimmin (Imperial)

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15:00 – 15:30 *Chiral DOTAs – A New Platform for Metal Ion Chelators to Transcend DOTAs in Diagnostic Applications*
Dr. Ga-Lai Law (PolyU)

15:30 – 16:00 Coffee Break

Session 4 (16:00 – 17:30) Chair: Prof. Nicholas Long (Imperial)

16:00 – 16:30 *Towards Photocatalytic Alkane Oxidation with Late Transition Metal Catalysts and Oxygen*

Prof. Geroge Britovesk (Imperial)

16:30 – 17:00 *Organometallic Probes for the Sensing of Carbon Monoxide in Air and in the Body*

Dr. James Wilton-Ely (Imperial)

17:00 – 17:30 *From Metallomics to Drug Discovery: Overcoming Antimicrobial Resistance by Bi(III) Complexes*

Prof. Hongzhe Sun (HKU)

Close of the First Day

Wednesday, 16 May 2018

Venue: Lecture Theatre P3, Chong Yuet Ming Physics Building, Department of Chemistry

Session 5 (9:00 – 10:30) Chair: Prof. Jun-Long Zhang (PKU)

9:00 – 9:30 *Boring Lanthanide Chemistry? Not So Fast!*

Prof. Zhiping Zheng (SUSTech)

9:30 – 10:00 *Chemistry of Metalla-Arynes*

Prof. Guochen Jia (HKUST)

10:00 – 10:30 *Reactivity of Some Transition Metal Nitrido Complexes*

Prof. Tai-Chu Lau (CityU)

10:30 – 11:00 Coffee Break

Session 6 (11:00 – 12:30) Chair: Dr. Mark R. Crimmin (Imperial)

11:00 – 11:30 *Structure Characterization of Complicated Powder Sample*

Prof. Junliang Sun

11:30 – 12:00 *Metal Organic Frameworks: Hybrid Connectors and Nano-Engineering towards Functional Materials*

Dr. Rob Davies (Imperial)

12:00 – 12:30 *Synthetic Chemistry. The Use of Light Photons and Inexpensive Earth Abundant Metals for C–H and C=C Bond Functionalization*

Prof. Chi-Ming Che (HKU)

12:30 – 14:00 Lunch Break

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Session 7 (14:00 – 15:30) Chair: Dr. Ho-Yu Au-Yeung (HKU)

- 14:00 – 14:30 *Organic Spintronic Materials Based on Tetrathiafulvalene and Its Derivatives*
Prof. Jing-Lin Zuo (NJU)
- 14:30 – 15:00 *Low Dimensional Cyanometallates with Bistability in Magnetism*
Dr. Yuan-Zhu Zhang (SUSTech)
- 15:00 – 15:30 *Recent Advances in Inorganic Radicals: Structure, Bonding and Physical Properties*
Prof. Xiping Wang (NJU)
- 15:30 – 16:00 Coffee Break

Session 8 (16:00 – 17:30) Chair: Prof. Chi-Ming Che (HKU)

- 16:00 – 16:30 Radiolabelling with [11C]Carbon Disulfide: Recent Advances and Applications for the Development of PET Imaging Agents
Dr. Philip Miller
- 16:30 – 17:00 *Exploiting Copper Complexes for the Selective Detection of Biologically Relevant Small Molecules*
Dr. Ho-Yu Au-Yeung (HKU)
- 17:00 – 17:30 *The Renaissance of Metallosalens in Biological Studies: The Critical Role of Metals*
Prof. Jun-Long Zhang (PKU)
- 17:30 – 17:45 Closing Remarks: Prof. C.M. Che (HKU)

Close of the Symposium