

International Symposia on Advancing the Chemical Sciences (ISACS)



Challenges in Inorganic and Materials Chemistry (ISACS3)

20-23 July 2010 • Hong Kong, China

Programme and Abstracts



Conference Committee

 Christopher C. Cummins, MIT, USA (Chair)

 Che-Ming Che, The University of Hong Kong, China

 Jeffrey R. Long, University of California, Berkeley, USA

 Bing Xu, Brandeis University, USA

 Vivian W. W. Yam, The University of Hong Kong, China

Tuesday 20 July 2010

 1600 - 1900 Registration

 1900 - 2000 Welcome drinks reception

Wednesday 21 July 2010

 0800 - 0900 Registration

 0845 - 0900 Opening presentation

 0900 - 0940 **Michael Grätzel**
 Optimizing Photon Harvesting and Carrier Collection
 in Mesoscopic Solar Energy Conversion Systems

 0940 - 1020 **Jean-Marie Tarascon**
 Better Electrode Materials for Li-Ion Batteries
 Through Chemistry

 1020 - 1120 Coffee break

 1120 - 1200 **Philip P. Power**
 Main Group Elements as Transition Metals

 1200 - 1240 **Jeffrey R. Long**
 Applications of Coordination Chemistry in the
 Synthesis of New Single-Molecule Magnets

 1240 - 1410 Lunch

 1410 - 1450 **Gregory L. Hillhouse**
 Carbene Group-Transfer Reactivity of Dimeric
 Nickel Complexes Supported by N-Heterocyclic
 Carbene Ligands

 1450 - 1530 **Tetsuro Murahashi**
 Chemistry of Multinuclear Sandwich Complexes

 1530 - 1630 Coffee break

 1630 - 1710 **Christopher J. Chang**
 Metals on the Brain: Probing Cellular Chemistry with
 Molecular Imaging

 1715 - 1815 **Poster session 1**
 A – Organometallic Chemistry
 B – Inorganic Materials

Thursday 22 July 2010

0900 - 0940	Susumu Kitagawa Coordination Polymers with Integrated Functional Pores
0940 - 1020	Omar M. Yaghi Functional Group Sequences and 'Codes' in MOF Chemistry
1020 - 1120	Coffee break
1120 - 1200	Manfred Scheer The Role of Polyphosphorus Units in Transition Metal Chemistry
1200 - 1240	Hansjorg Grutzmacher Form Matters: Catalysis with "Butterflies"
1240 - 1410	Lunch
1410 - 1450	Christopher C. Cummins Synthesis of Main Group Compounds using Transition-Element Chemistry
1450 - 1530	Chi-Ming Che Functional Molecular Materials and Photo-Catalysis with Phosphorescent Square Planar Metal Complexes
1530 - 1630	Coffee break
1630 - 1710	Vivian W. W. Yam Design and Assembly Strategies Towards Photofunctional Metal-Based Molecular Materials
1710 - 1750	Makoto Fujita Emergent Self-Assembly of Molecular Spheres
1800 - 1900	Poster session 2 C – Metals in Biology D – Renewable Energy E – Catalysis F – Coordination Chemistry

Friday 23 July 2010

0900 - 0940	Peidong Yang Semiconductor Nanowires for Solar Energy Conversion
0940 - 1020	Bing Xu Progress and Challenges of Biological Applications of Multifunctional Nanoparticles
1020 - 1120	Coffee break
1120 - 1200	Daniel G. Nocera Personalized Energy for 1 (x 6 Billion)
1200 - 1215	Closing remarks

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