

Invited Lecture

Title: Functional Complexes from Hybrid Ligands

Speaker: Prof. T.S. Andy Hor

Institute of Materials Research and Engineering,
A*STAR, 3 Research Link, Singapore 117602.

Time: 16:00 -17:00 May. 30, 2014 (Friday)

Place: Meeting Room 308, IPE Mansion



Introduction

Prof. Andy Hor is the Executive Director of IMRE (A*STAR) and Professor of Chemistry of the National University of Singapore. He is Fellow of the Singapore National Academy of Science (SNAS), Fellow of the Royal Society of Chemistry (FRSC), President of the Singapore National Institute of Chemistry (SNIC), and President of the Federation of the Asian Chemical Societies (FACS), and Concurrent Professor of Fudan University (China). He is the founding chair of the Singapore National Academy of Science & A*STAR Young Scientist Award, and President of Jury of L'Oréal for Women in Science (Singapore) in 2012 & 2013. His research interests are heterometallic materials, organometallic catalysis and supramolecular self-assembly, and has published ~330 ISI paper with ~500 annual citations in recent years. He has delivered numerous plenary, keynote and invited lectures in various international, regional and local meetings. He chaired the 15th Asian Chemical Congress (ACC-15) in 2013 and the coming 41st International Coordination Chemistry Conference (ICCC-41) in July 2014. He is on the international/advisory board of the *Chemistry – an Asian Journal* (VCH-Wiley), *Dalton Transactions* (RSC), *Inorganic Chemistry Frontiers* (RSC) and *Inorganica Chimica Acta* (Elsevier), and Associate Editor of the *Australian Journal of Chemistry* (CSIRO) and Editor of the *Journal of Molecular & Engineering Materials* (WS).

Development of functional materials is central in this era of innovation-driven technological growth. Key to this development is the molecular design, synthesis and engineering of materials, as it provides the most fundamental bottom-up approach to complement the process- and product-driven innovation processes. Functional molecular complexes are gaining traction because of the numerous functions, and hence opportunities, they carry - from catalytic to magnetic, and from optical to energy applications. In this presentation, the speaker will describe some advances in his laboratory and explain how the structural insights gained can be channelled to support materials design and growth. He will also take this opportunity to introduce the institutional direction and key research opportunities of IMRE of A*STAR.