



The Chinese University of Hong Kong
Department of Chemistry
Research Seminar Series

- Speaker:** Prof. Chun-Yuen Wong
Department of Biology and Chemistry
City University of Hong Kong
- Title:** Uncommon Reactivities and Photophysics derived from or leading to Ruthenium Organometallic Complexes
- Date:** January 8, 2016 (Friday)
- Time:** 2:30 p.m.
- Venue:** L3, Science Centre

< Abstract >

Our group has initiated a program to study fundamental organometallic reactivities using structurally well-defined molecular systems. In this talk, I will present our recent findings on the (1) development of new nitrosoarene-derived non-innocent ligand systems, (2) activation of functionalized alkynes for new coordination complexes (including metal-indoline, -indole-zwitterion, -indolizine-zwitterion complexes and metallafurans), and (3) photophysics of several classes of ruthenium and osmium complexes bearing N-heterocyclic carbene-derived auxiliary ligands. The applications of these complexes and reactivities will also be discussed.

Biography:

Prof. Chun-Yuen Wong obtained his PhD from The University of Hong Kong in 2005 under the supervision of Prof. Chi-Ming Che, where he conducted research in the synthesis and spectroscopic studies of carbon-rich organometallic complexes. He then obtained a Croucher Fellowship and had his postdoctoral studies in Harvard University under the supervision of Prof. Charles M. Lieber, where he worked on the fabrication of semiconductor nanowire devices. He joined City University of Hong Kong in 2007 as a lecturer, and he became an assistant professor there in 2009. He was also invited to be a visiting assistant professor in Sophia University in Tokyo during the summer of 2015. Currently, his research program focuses on (1) reactivity studies of structurally well-defined organometallic complexes; (2) rational design of new organometallic luminophores; and (3) synthesis and application of nano materials.