



# Seminar Invitation

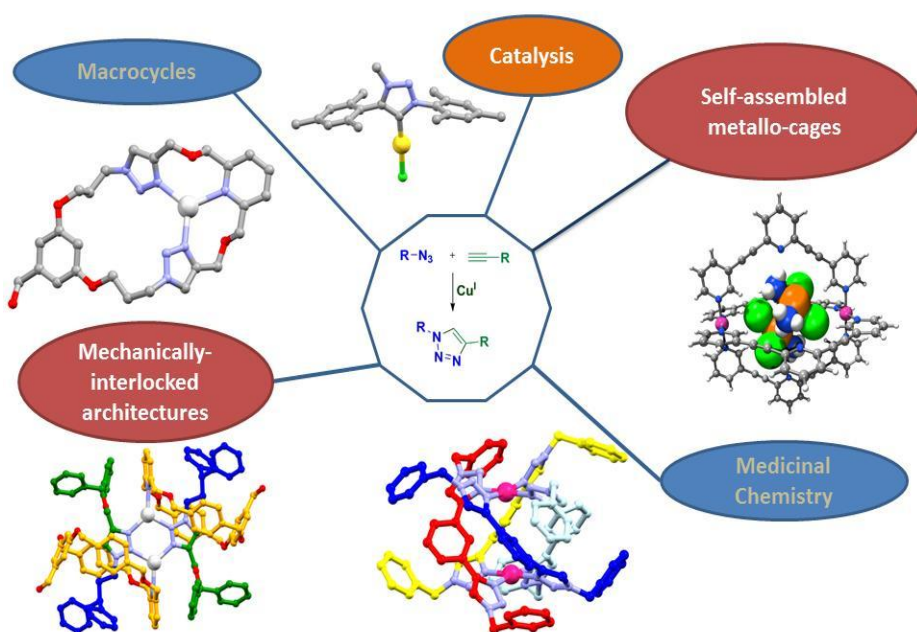
**You are invited to attend the seminar**

***Functional (Supramolecular) Molecular Architectures and Machines:  
It's easy as 1, 2, 3, Click***

**by Associate Professor James Crowley,  
recipient of the 2014 Sargeson Lectureship Award  
and lecturer at the University of Otago.**

Access to readily functionalised molecular architectures is of crucial importance in a range of different areas including catalysis, pharmaceuticals, bio-imaging, metallocupramolecular chemistry, mechanically interlocked architectures and molecular machines. The mild and modular Cu(I)-catalysed 1,3-cycloaddition of terminal alkynes with organic azides (the CuAAC "click" reaction) allows the ready formation of 1,4-disubstituted-1,2,3-triazole scaffolds and over the past ten years this reaction has become widely used in the synthesis of functional molecules.

The first part of the presentation will describe the synthesis of functionalised metallo-macrocycles and cages using CuAAC "click" chemistry and our efforts to use the metallocupramolecular architectures as anti-bacterial, anti-cancer and drug delivery agents. In the second part of the talk our recent efforts to exploit ferrocene to develop a switchable molecular rotor (machine) will be described.



**Date:** 27 May 2015

**Time:** 10am-11am

**Venue:** Lecture Theatre 6, Building 21,  
Ground Floor, UWS, Campbelltown  
Campus

**RSVP:** 22 May 2015 j.aldrich-  
wright@uws.edu.au