

UCLA

DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

presents

Organic Colloquium

with

Professor Mary P. Watson



Department of Chemistry and Biochemistry
University of Delaware

“Metal-Catalyzed Reactions of Non-traditional Electrophiles”

Abstract. I will present our research on the development of transition-metal catalyzed reactions employing non-traditional electrophiles. We have developed enantioselective, copper-catalyzed alkynylations of oxocarbenium ion intermediates, which enable efficient access to highly enantioenriched oxygen heterocycles with alpha stereogenic centers. We have also identified reaction conditions for enantiospecific, nickel-catalyzed cross couplings of amine- and alcohol-derived alkyl electrophiles. The optimization and scope of these transformations will be discussed, along with our mechanistic and stereochemical hypotheses and supporting experiments.

Thursday, January 22, 2015

5:00 PM

Cram Conference Room - 3440 Molecular Sciences Bldg

For further information, contact David Gingrich at gingrich@chem.ucla.edu