

UCLA

DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

presents

Organic Colloquium

with

Professor Catharine H. Larsen



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University of California, Riverside

“Copper Catalysis for Direct Formation of Heteroaromatics and Tetrasubstituted Carbons Bearing Amines”

Abstract. Copper catalysts are capable of creating structurally diverse products by coupling an amine, alkyne, and carbonyl compound. Second-generation green processes operate with zero waste (as the sole by-product is 1 equivalent of water) and allow for the incorporation of alkyl groups on heteroarenes, critical for ongoing testing of potential anticancer therapies. The mechanistic requirements to overcome each barrier to new reaction development are discussed. The first catalytic ketone-amine-alkyne coupling of acyclic ketones provides direct formation of fully-substituted carbons bearing amines and may open the door to additions of other nucleophiles in these types of multicomponent reactions.

Thursday, April 18, 2013

5:00 PM

Cram Conference Room - 3440 Mol Sci

Refreshments served at 4:30 PM

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