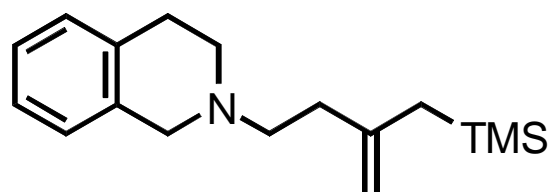


UCA Department of Chemistry Seminar

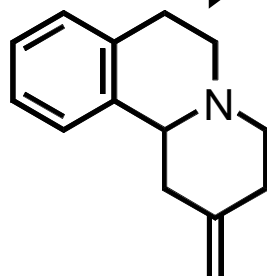
March 9, 2012 2 pm Laney Hall Rm 102

Chris Marvin

Dept. of Chemistry
Hendrix College



photosensitizing dye
(catalytic)



Stereocontrolled Synthesis of Complex Natural Products and Organic Reactions Using Visible Light

A major challenge in any chemical synthesis is to control the stereochemistry of tetrahedral carbons. The first part of this seminar will introduce the basic principles of how this is accomplished in the context of preparing natural products. The second part of this seminar will detail work from the last year at Hendrix College. We are studying photochemical oxidations of amines using low energy visible light radiation. By using catalytic amounts of a photosensitizing dye, we can use 23W household lamps, whereas traditional photochemical methods use specialized lamps to produce high-energy ultraviolet (UV) light radiation.

Lunch provided for students with the seminar speaker from 12 – 1 pm in Rm 105.
Contact P. Desrochers (patrickd@uca.edu) for more information.