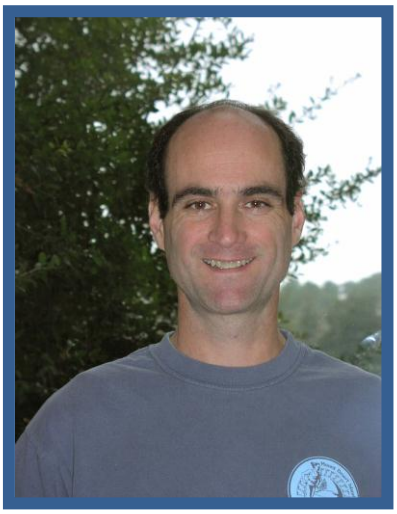
The Department of Chemistry and Biochemistry

Seminar Series

Presents a Seminar Titled:

"Oxocarbenium Ions in Organic Synthesis: Stereoselective Addition Reactions and Development of New Cascade Sequences"

Presented By



Dr. Robert J. Hinkle

Associate Professor of Organic Chemistry,
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Reactive oxocarbenium ions have been used in a number of stereoselective reactions used to form C-glycosides and dihydropyrans. During the synthesis of C-glycosides, nucleophilic addition can occur from either the axial, or equatorial direction in 6-membered cyclic oxocarbenium ions. Dihydropyrans can also be synthesized via oxocarbenium ions, and we developed a new four-reaction cascade sequence to synthesize novel benzo[*f*]isochromene compounds. Synthetic and mechanistic aspects of C-glycoside formation and the four-reaction cascade will be presented.

Thursday, November 14, 2013 at 12:20 p.m. in BAL 1012