Chemistry 501 Seminar
Thursday, October 4, 2012
3:45 p.m. Buehler 555
Seminar Webcast
Refreshments, 3:30pm, Buehler 513

Dr. Greg Dudley
Florida State University
Hosted by: Dr. Michael Best

“Recent Innovations in Alkyne Chemistry”

Biography
Gregory Dudley was born in Chicago and raised in Miami, FL. He graduated from Florida State University with a B.A. in chemistry in 1995. He returned to FSU as an assistant professor in 2002 and was promoted to the rank of associate professor with tenure in 2008.

Dr. Dudley received his Ph.D. in organic chemistry from the Massachusetts Institute of Technology in 2000. As a member of Professor Rick L. Danheiser’s research lab, he completed the total synthesis of ascochlorin, a densely functionalized phenol natural product, using a vinylketene-based benzannulation reaction in the key step. He also started a synthetic organic literature review series within the department, and he coordinated the MIT Chemistry Outreach Program, in which graduate students travel to local high schools and perform chemistry demonstrations.

After leaving MIT, Dr. Dudley conducted postdoctoral research under the guidance of Professor Samuel J. Danishefsky at the Sloan-Kettering Institute for Cancer Research in New York City; his work culminated in the total synthesis of the complex diterpene guanacastepene A. Dr. Dudley received graduate fellowships from Boehringer-Ingelheim and Bristol-Myers Squibb, a postdoctoral fellowship from the National Institutes of Health, and the Roche Award for Excellence in Organic Chemistry.

Abstract
Research in the Dudley Lab is designed to further the science and practice of organic chemistry. Several new methods are under development, including a tandem nucleophilic addition / C–C bond-cleaving fragmentation reaction that generates alkynes. The research seminar will focus on this on-going “alkynogenic fragmentation” methodology. Other projects related to advancing the science and practice of chemical synthesis will also be discussed.