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Department of Chemistry

Special Seminar

3:45 p.m. Monday, October 28, 2013 • 331 Smith Hall



Assistant Professor

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North Carolina State University

Oxyfunctionalization with Re and Ir Complexes

Research interests: homogeneous catalysis
Website: <http://www.ncsu.edu/chemistry/people/eison.html>

Abstract

The development of complexes that can facilitate the formation of C-O bonds is desirable as we seek homogeneous catalysts that are effective at upgrading natural gas reserves (primarily methane) to valuable products. The development of these catalysts requires a fundamental understanding of the mechanisms of C-O bond formation. In this presentation, we will discuss our efforts at oxyfunctionalization with oxorhenium complexes, and the development Cp*Ir^{III} complexes as catalysts for the functionalization of arenes and the stoichiometric functionalization of alkanes.

Hosts: Professors Connie Lu and Ian Tonks