Synthetic Applications and Mechanistic Investigations of Transition Metal Catalyzed C-H Bond Functionalization

Monday, January 22, 2007
4–5 p.m.

Department of Chemistry
Boston University
Life Science and Engineering Building
24 Cummington Street
Auditorium—Room B01

The development of regio- and chemoselective methods for the functionalization of C-H bonds remains a tremendous challenge in synthetic organic chemistry. The Sanford Group's mechanistic approach toward the development of transition metal-catalyzed reactions has led to the discovery and optimization of catalytic methods for selective transformation of C-H bonds into C-O, C-Cl, C-Br, C-I, C-F, and C-C bonds under mild conditions. The talk will focus on the scope, selectivity, and functional group tolerance of these new reactions in the synthesis of biologically active molecules and on the implications for future catalyst and reaction development.

SPEAKER:
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