

McGill Chemical Society Seminar Series



Tuesday, 5 May, 2015, 1:00 PM

Otto Maass Chemistry Building, Room 10



Prof. Melanie S. Sanford

Department of Chemistry, University of Michigan



Development of New Reactions for the Introduction of Fluorine into Organic Molecules

This presentation will discuss our group's recent work on developing new transition metal catalyzed methods for introducing fluorine and trifluoromethyl groups into organic molecules. Mechanistic and organometallic aspects of this work will be discussed in detail. In addition, applications to complex molecules, particularly in the context of PET imaging applications will be discussed

Recent publications:

- 1) Catalyzed Fluorination of Diaryliodonium Salts with KF, *Org. Letters*, **2013**, *15*, 5134-5137.
- 2) Cu(OTf)₂-Mediated Fluorination of Aryltrifluoroborates with Potassium Fluoride, *J. Am. Chem. Soc.* **2013**, *135*, 16292-16295.

