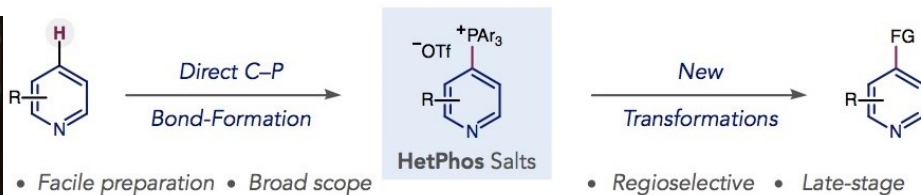


ORGANIC SEMINAR

Title: "Selective Functionalization of Pyridines, Diazines and Pharmaceuticals Using Heterocyclic Phosphonium Salts"



Friday, October 12th, 9:00 am
473 Hutchison Hall
University of Rochester
Department of Chemistry

Professor Andy McNally
Colorado State University
Department of Chemistry

Abstract: Selective methods that can functionalize electron-deficient heterocycles are in great demand due to their prevalence in biologically active compounds. Pyridines and diazines, in particular, are widespread components of pharmaceutical compounds yet methods to transform these motifs into valuable derivatives are still greatly sought after. We will present a selection of catalytic and non-catalytic methods using phosphorus intermediates that enable multiple new bond-constructions on these heterocycles. A particular emphasis will be placed on phosphorus ligand-coupling reactions that represent an alternative means to form C-C and C-Heteroatom bonds.

Host: Professor Shauna Paradine • Email: sparadin@ur.rochester.edu