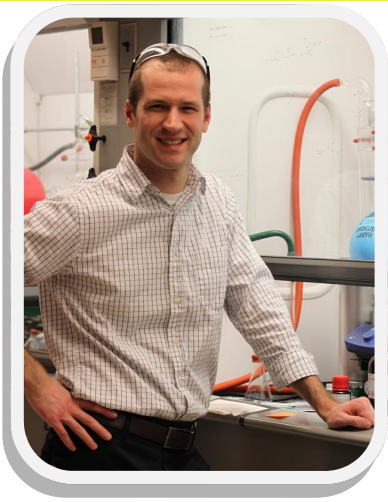


Department of Chemistry and Biochemistry

~ Organic/Inorganic Seminar Series ~

David R. Stuart

Portland State University

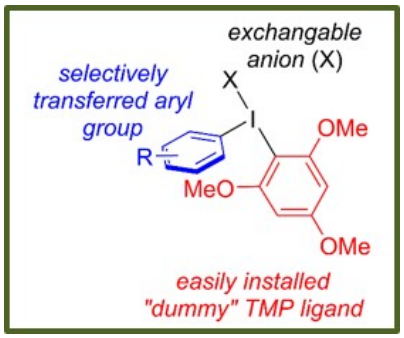
Friday, April 21, 2017

Coffee reception @ 2:00 pm, 377 Klamath

Seminar: 2:30–3:30 pm, 331 Klamath

"Exploring Divergent Reactivity of Diaryliodonium Salts for Metal-Free Arylation Reactions"

Abstract: Aromatic compounds are prevalent in pharmaceuticals, agrochemicals, and functional materials. The synthesis and reactivity of unsymmetrical diaryliodonium salts is discussed as a strategy for metal-free arylation reactions that provide access to societally relevant compounds. Specifically, control over divergent reactions of diaryliodonium salts will be demonstrated by tuning the reagent and reaction conditions so that selective *ipso*-substitution or aryne extrusion may be achieved. This work is presented in the broader context of advancing synthetic capabilities to access benzenoid substitution patterns that are difficult to access by current technologies.



**** Hosted by Michael Haley ****