

*Portland Section 2019 February 14 Meeting Notice*

# Opportunities for chemical synthesis with hypervalent iodine

a talk presented by

## Professor David Stuart

Portland State University

7:30 pm Thursday February 14, 2019

Reed College Vollum Lounge

3203 SE Woodstock Blvd, Portland, OR 97202

[map](#)

[Dinner Reservations](#)

**Dinner reservations FIRM deadline 9 PM Monday February 11**

**Prices increase after the deadline!** (including at the door)

*Schedule: 6:00 pm social • 6:45 pm buffet dinner • 7:30 pm program and talk*

Portland Section webpage <http://www.acsportland.org>

**Bio:** Dave obtained his BSc (Honors) from the University of Victoria (Victoria, BC, Canada) in 2005 and his PhD at the University of Ottawa (Ottawa, ON, Canada) in 2010 under the guidance of Prof. Keith Fagnou. After an NSERC-funded postdoc with Eric Jacobsen (Harvard), Dave began his independent career at Portland State University in 2012. He was promoted to Associate Professor with tenure in 2018.

**Abstract:** Aromatic rings are ubiquitous in molecules used in health, agriculture, technology, and energy fields. Over the past decade, diaryliodonium salts have emerged as novel aryl-transfer reagents in both metal-catalyzed and metal-free reactions. Our research is focused on using these hypervalent iodine compounds in metal-free reactions and addressing key questions of chemoselectivity in aryl transfer. Two competing pathways will be discussed: extrusion of arynes and direct ipso-substitution. These pathways are exploited in the development of methods that access new chemical space and expand beyond the limitations of classic SNAr.