



## 2010–2011 POCC Lecture Series

May 19, 2011, 8:00 PM

≈ POCC Student Choice Lecture ≈

Prof. Jennifer A. Love

The University of British Columbia

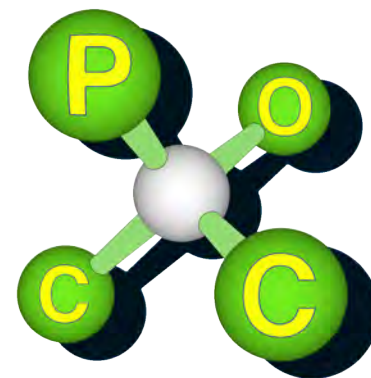
*Developing Catalytic Reactions*

*One Step at a Time*

Carolyn Hoff Lynch Lecture Hall

Chemistry Building, University of Pennsylvania

The Philadelphia  
Organic Chemist's  
Club



POCClub.org

Jennifer Love received her PhD in 2000 under the direction of Prof. Paul Wender at Stanford University. She was an NIH postdoctoral fellow in the lab of Prof. Robert Grubbs at Caltech from 2000–2003. She joined the faculty of the University of British Columbia in 2003 and was promoted to associate professor in 2009. Her research interests include the mechanistic investigation of M–X bond reactivity and applications in organic synthesis.

**Abstract:** My research program focuses on exploring the reactivity of late transition metal–element (M–E, E = C,O,F,S, etc) bonds, which despite being implicated in a wide variety of catalytic processes, the factors governing their reactivity remain poorly understood. The ultimate goal is to utilize the knowledge gained from both the mechanistic and synthetic work to develop fundamentally new catalytic transformations – essentially, we’re developing catalytic reactions one step at a time. Our current focus encompasses a number of topics which are linked by the involvement of M–E bonds in catalysis: (a) Catalytic S–H Bond Activation, (b) metal–Catalyzed C–F Activation and (c) Stoichiometric and Catalytic Reactivity of 2–Rhodaoxetanes. Progress in each of these areas will be presented.