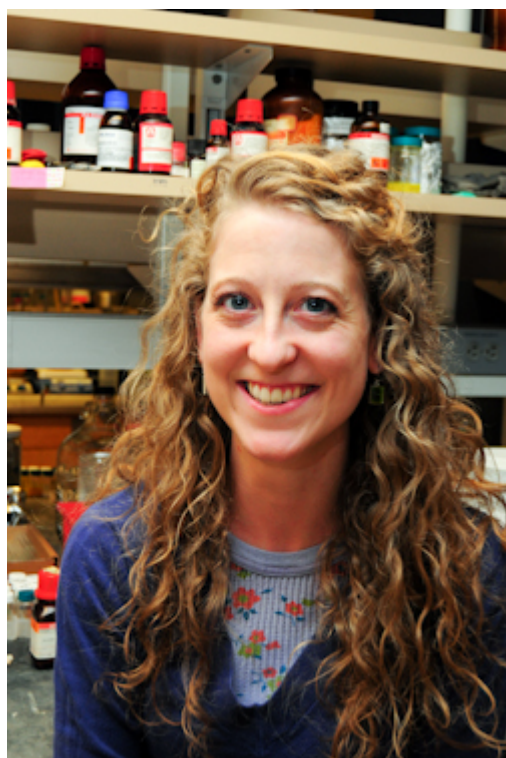




# BIG energy seminar series

Addressing the scale and complexity of the global energy challenge.



## *Catalytic transformations: Heterogeneous and homogeneous reactions*

*Kara J. Stowers  
Harvard University*

**Date:** Tuesday, February 4, 2014 at 2:30 pm

**Location:** Caruthers Biotechnology Building, A115 (East Campus)

### **Abstract:**

Palladium catalyzed C-H bond functionalization methods provide an attractive strategy for late-stage derivatization of complex molecules. Methods for the olefination and oxygenation of C-H bonds using this strategy is discussed. Gold is considered an inert metal, however at very small sizes, it too can catalyze reactions. The study of nanoporous gold in ultra-high vacuum provides a deeper understanding of these catalysts. Insight into the activation/deactivation, sintering, and oxygen adsorption of these materials will be presented.

### **Bio:**

Dr. Kara Stowers is currently a Postdoctoral Fellow at Harvard University. Her postdoctoral studies involve studying the catalytic activity of nanoporous gold for the activation of oxygen and the oxidation of alcohols.

CAMPUS MAP: *Caruthers Biotechnology Building*,

<http://www.colorado.edu/campusmap/map.html?bldg=BIOT&x=14&y=11>