



## *Magomedov-Scherbinina Memorial Prize and Lectureship Award Winner*

***Sara Skrabalak***

*James H. Rudy Professor of Chemistry  
Indiana University - Bloomington*



**Wednesday, September 20th**

4:00pm - 5:00pm

140 Lander Auditorium, Hutchison Hall

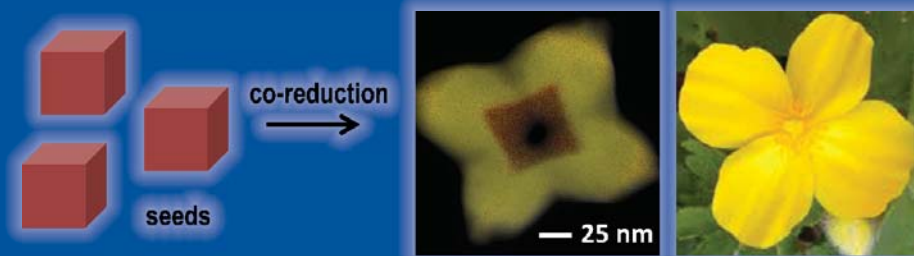
*Host: Michael Neidig*

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*There will be a reception immediately following the lecture in the 1st Floor Hutchison lounge area.*

### *Function follows Form? Synthesis and Application of Metal Nanostructures*



**Lecture Abstract:** The importance of molecular structure to molecular function is a central tenet in chemistry, with the lock-and-key model of enzyme activation representing a classic example. Likewise, the function of inorganic nanomaterials depends on structural parameters that include crystallite size and shape as well as architecture. To realize the function of such materials, these structural parameters must be precisely controlled and the Skrabalak group is developing the synthetic toolkit to achieve advanced nanostructures. This seminar will highlight seed-mediated co-reduction as a route to structurally defined bi- and trimetallic nanomaterials, hierarchical materials, and intermetallic compositions.

**Biography:** Dr. Sara Skrabalak is the James H. Rudy Professor of Chemistry at Indiana University – Bloomington and a recipient of both NSF CAREER and DOE Early Career Awards. She is a 2012 Research Corporation Cottrell Scholar, a 2013 Sloan Research Fellow, a 2014 Camille Dreyfus Teacher-Scholar, and recipient of the 2014 ACS Award in Pure Chemistry and 2015 Baekeland Award. In 2017 she was named both a Fulbright Fellow and Guggenheim Fellow.