

Moments in Materials Presentation:
Nanocrystals Week I:
The Synthetic Challenges of
Semiconductor Nanocrystals

Speaker: Mark Hendricks

When: Thursday, August 15th 2013, 4:30 p.m.

Where: NWC, 7th floor meeting room, RM 703



Semiconducting nanocrystals have been a popular area of study for over 25 years, and commercial products utilizing them have recently started to appear on the market. This talk will discuss the theoretical and practical challenges to synthesizing nanocrystals with desirable properties, and will highlight some specific advances that helped the field understand and overcome these challenges. In particular, the development of synthetic procedures that enable size-control, shape diversity, and shelling of nanocrystals will be emphasized.

Selected references

1. Murray, C.; et al. *J. Am. Chem. Soc.* **1993**, *115*, 8706–8715.
2. Garcia-Rodriguez, R.; et al. *Chem. Mater.* **2013**, *25*, 1233–1249.

