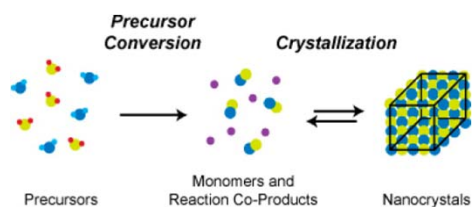


# Moments in Materials Presentation: ***Nanocrystals Week I: Better Ingredients, Better Nanocrystals***

Speaker: Michael Campos

When: Thursday, July 31<sup>st</sup> 2014, 4:30 p.m.

Where: NWC, 7<sup>th</sup> floor meeting room, RM 703



There are many ways to cook essentially the same dish, yet there are reasons why you might hesitate to order surf and turf from McDonald's. Turns out the same is true for semiconductor

nanocrystals! Differences in precursor chemistry can drastically change the material properties that make them so delicious (metaphorically) for applications such as LEDs, biological probes, and solar cells. In this talk, I will explore the current state of metal chalcogenide nanocrystal synthesis with an eye on tunability, ease, and quality of the nanocrystal product. I will then discuss the Owen Group's contributions to the field and what they will enable in the future. Importantly, I will also make cooking analogies.

Selected Reference:

García-Rodríguez, R.; Hendricks, M. P.; Cossairt, B. M.; Liu, H.; Owen, J. S. *Chem. Mater.* 2013, 25, 1233-1249

