

# Moments in Materials Presentation: *Nanocrystals Week II:* *The Chemistry at the Surface*

Speaker: Nick Anderson

When: Thursday, August 22<sup>nd</sup> 2013, 4:30 p.m.

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



Flash back to March 1993: the Bills just lost their third super bowl, the eastern seaboard is being battered by the Storm of the Century, Billy Crystal is about to host the Oscars, and mankind has learned to make nearly monodispersed cadmium chalcogenide nanocrystals.<sup>1</sup> But wait... no one knows what is on the surface of these magnificent materials that have properties dominated by the very surfaces we know nothing about. Come with us on a journey through time and understanding, from when cadmium first met selenium to the passivation of nanocrystal surfaces with all the ligands possible. Some of them will even be imaginary! Part history, part classical inorganic chemistry as laid out by Prof. Malcolm Green,<sup>2</sup> this exhilarating adventure is sure to educate. By the end, you'll find that you already knew more about nanocrystal surfaces than you did in 1993. Guaranteed or your money back.

Selected references

1. Murray, C. B.; Norris, D. J.; Bawendi, M. G. *J. Am. Chem. Soc.* **1993**, *115*, 8706-8715.

2. Green, M. L. H. *J. Organomet. Chem.* **1995**, *500*, 127-148

