

The Department of Physics and Astronomy  
Presents Research Seminar Speaker

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Friday April 23, 2010  
Time: 3:00-4:00 p.m.  
Location: AET 0.212

## Semiconductor Nanowires and Nanocrystals for Transistor and Photovoltaic Applications

We have been working for several years to develop robust solution-based routes to the synthesis of nanocrystals and nanowires of many different semiconductors and metals. The general concept we pursue is to synthesize nanomaterials with unique size-tunable optical, electronic and optoelectronic properties and then manipulate them like building blocks into devices and materials with the potential to displace existing technologies. This talk will focus on the progress and challenges of implementing silicon and germanium nanowires and copper-indium-gallium-selenide (CIGS) nanocrystals in transistor and photovoltaic devices.