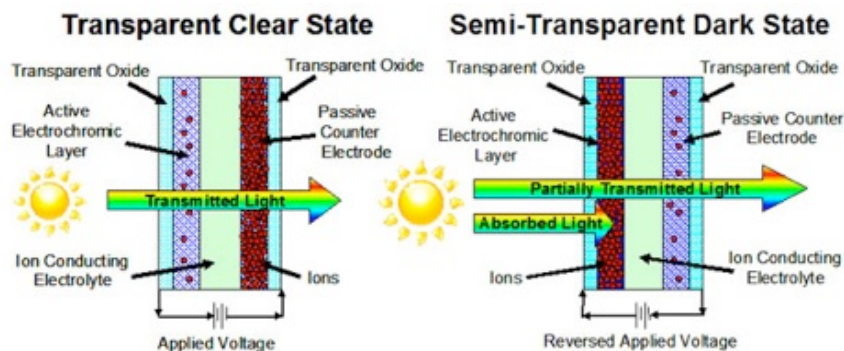


Nanocrystals for Energy Technologies: Getting Control

with Delia Milliron of Lawrence Berkeley National Laboratory



A one-hour multimedia presentation for Teens in Marin

Wednesday, November 30th, 2011

7:30 – 8:30 pm

Terra Linda High School, Room 207

320 Albion Way, San Rafael, CA 94903

Colloidal nanocrystals are composed of technologically useful materials, such as semiconductors, but their small size allows them to be fabricated and processed by low cost, solution-based methods. Exciting opportunities exist for next generation energy technologies, such as solar photovoltaics or energy-saving smart windows, which take advantage of their unique, size-dependent properties.

I will describe our efforts to gain precise control over their preparation and their integration into thin films to drive the development of such technologies.

Delia J. Milliron is a Staff Scientist at Lawrence Berkeley National Laboratory, and the Facility Director for Inorganic Nanostructures at The Molecular Foundry, a research center and user facility for nanoscience supported by the U.S. Dept. of Energy. She received her PhD in Chemistry from UC-Berkeley in 2004. From 2004-2008 she worked for IBM's research division, investigating opportunities to use nanoparticle materials in next generation data storage technologies. Her current research is motivated by the potential for nanomaterials to introduce new functionality to and reduce manufacturing costs of energy technologies. Her group's activities span fundamental chemistry of nanomaterials to device integration and characterization. She is the recent recipient of an R&D 100 Award, an MDV Innovators Award, and a DOE Early Career Research Program grant.

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