

# Physics Department Seminar

Friday April 3<sup>rd</sup>, 2009

11:00am in PhSc 108

## “Nanostructure Materials: Synthesis, Characterization, And Applications”

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### Abstract:

Nanostructure materials are being touted as the next significant advancement in science and technology. They possess unique properties that are not manifested in macroscopic systems and have broad application such as chemical and biological sensors, hydrogen storage devices, and nanorobotics. This presentation will begin with the basics of semiconducting nanostructures and advance to my current research in nanowires, their growth mechanisms, morphological, physical, chemical, mechanical, and photonic properties as well as potential applications.

