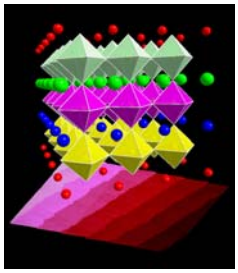
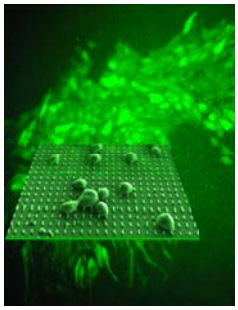
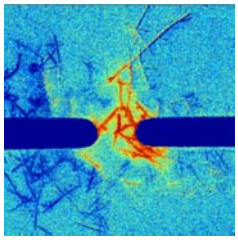
CNMS DISCOVERY SEMINAR SERIES

Friday, February 26, 2010
11:00 am
Iran Thomas Auditorium, 8600







Probing the Nanoscale by Combining Theory and Microscopy

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Abstract:

Density functional calculations and transmission electron microscopy are a powerful combination to probe the nanoscale. The talk will demonstrate this synergy using select problems of nanoparticles, nanowires, and complex materials systems. It will also highlight examples demonstrating the role of the nanoscale, the ability of theory to address atomic-scale issues when the system is seemingly too complex to handle, and the need for nanoscale probes to unravel the physics of complex systems.

Host: Sergei Kalinin, sergei2@ornl.gov, 865.241.0236

Center for Nanophase Materials Sciences