

**University of Connecticut: Chemical Approaches to Nanomaterials • Storrs, CT**

*Sunday, March 16, 2014*

In his famous lecture “There's Plenty of Room at the Bottom” given on December 29, 1959, Richard Feynman proposed the idea of studying things at the nanometer scales, an idea that would come to be called nanoscience and nanotechnology. Five decades later, nanomaterials now play an essential role in many technological sectors such as microelectronics, implantable biomedical devices, catalysts and renewable energy. The Chemistry, Physics and Chemical Engineering Departments and Institute of Materials Science (IMS) at UConn invites you to a day of scientific exploration to learn how nanomaterials such as quantum dots, gold nanoparticles, protein complexes, graphene and carbon nanotubes are synthesized, characterized and processed. Participants will learn about fundamental concepts in nanoscience and nanotechnologies through a combination of lively, short talks and participation in hands-on activities in a state-of-the-art facility. Every participant will make their own nanoparticles, examine the physical properties of nanostructures using microscopic and spectroscopic techniques, use solvent exfoliation to obtain pristine graphene sheets, and print carbon nanotubes into 3-dimensional structures that they will take home with. UCONN faculty and graduate students will demonstrate aspects of their latest research projects and share what it is like to be a STEM researcher, even as an undergraduate.