

CENTER FOR
NANO TECHNOLOGY
AT THE UNIVERSITY OF WASHINGTON



Seminar Schedule 2005 - 2006

260 Bagley Hall Tuesdays 12:30 to 1:20 p.m.

10/4/2005

Overview of the Center for Nanotechnology and our PhD Option in Nanotechnology
Directors and Staff University of Washington -- Center for Nanotechnology

10/11/2005

Bioanalytical Separation Technologies to Study Cell Signaling
Nancy Allbritton University of California, Irvine -- Dept of Engineering

10/18/2005

Nanocomposites and Nanofluids
Prof. Emmanuel P. Giannelis Cornell University -- Dept. of Material Science and Engineering

10/25/2005

(I) Spatially correlated fluorescence and AFM of individual quantum dot clusters; (II) Fluorescence fluctuation spectroscopy investigation of DNA secondary structure formation.
Alan van Orden Colorado State University -- Dept of Chemistry

11/1/2005

Molecular Switching of Structure and Function for Nanotechnology Applications
Prof. and Canada Research Chair, Neil R. Branda Simon Fraser University -- Dept. of Chemistry

11/8/2005

Well defined nanostructured materials: Discrete nanoobjects and nanoscopically resolved crosslinked networks
Prof. Karen L. Wooley Washington University, St. Louis -- Dept of Chemistry

11/15/2005

Multifunctional Nanoparticles for Molecular Imaging and Drug Delivery
Xiaohu Gao, PhD University of Washington -- Dept of Bioengineering

11/22/2005

Dissection of Nanoscale Fuel Cell Catalysts by EXAFS, XANES and DFT
Prof. Eugene Smotkin University of Puerto Rico -- Dept. of Chemistry

11/29/2005

Life on a Chip: Combinatorial Cell Studies Using Micro/nanotechnology
Nianzhen Li, Ph.D. University of Washington -- Dept. of Bioengineering

12/6/2005

Protein Nanoarrays and Polymer Bioconjugates: Synthesis and Application
Heather Maynard, Ph.D. University of California, Los Angeles -- Depts. of Chemistry & Biochemistry

1/3/2006

Composite electric field guided assembly of nano-/bio- materials
Asst. Prof. Jae-Hyun Chung University of Washington -- Mechanical Engineering

1/10/2006

Epitaxial Electrodeposition of Chiral Metal Oxide Nanostructures
Prof. Jay A. Switzer University of Missouri-Rolla -- Materials Research Center

1/17/2006

Polymer-based Photonic Devices

Antao Chen, Ph.D. University of Washington -- Applied Physics Laboratory

1/24/2006

Material Properties of DNA and other Biopolymers: Beyond Thermally Activated Alphabet Zippers

Prof. Mickey Schurr University of Washington -- Dept. of Chemistry

1/31/2006

Microfluidics for Bioassays

Ashutosh Shastry, PhD. University of Washington -- Electrical Engineering

2/7/2006

Dielectrophoresis Activated Cell Sorter Technology

Assoc. Prof. Hyongsok Soh University of California, Santa Barbara -- Dept. of Chemistry

2/14/2006

A Graduate Level Ethics Course: "Societal and Ethical Issues in Nanotechnology"

Prof. Kirsty Mills, Assoc. Dir. University of New Mexico -- Center for High Technology Materials

2/21/2006

The Secret Life of Nanoparticles: properties of nanoparticles and nanostructured materials that are frequently forgotten or ignored

Donald R. Baer, PhD Pacific Northwest National Laboratory -- Fundamental Science Directorate

2/28/2006

Design of Novel Biomimetic Polymers and Biomaterials

Prof. Zhibin Guan University of California -- Irvine Dept. of Chemistry

3/7/2006

Biofunctional Nanofibers for Cell/Tissue Engineering

Asst. Prof. Hai-Quan Mao Johns Hopkins University -- Dept. of Materials Science and Engineering

3/28/2006

Assembling Materials Atom by Atom

Asst. Prof. Hari Manoharan Stanford University -- Dept. of Physics

4/4/2006

Mechanisms of Homogeneous Nucleation of Polymers of Sickle Cell Anemia Hemoglobin in Deoxy State

Assoc. Prof. Peter G. Vekilov University of Houston -- Dept. of Chemical Engineering

4/11/2006

Mussel Adhesive Proteins: Adhesive Mechanisms and Synthetic Polymer Mimics for Prevention of Biofouling

Phillip B. Messersmith, Ph.D. Northwestern University -- Biomedical Engineering Dept.

4/18/2006

A Perspective on the Materials and Integration Challenges at 55 nm and Beyond

John Smythe Micron Technology, Inc - Boise, ID

4/25/2006

Monodisperse magnetic nanoparticles for biomedical applications

Prof. Shouheng Sun Brown University -- Dept. of Chemistry

5/2/2006

Optically-polarized NMR of ⁶⁹Ga in Semi-insulating GaAs and InGaP/GaAs Heterostructures

Asst Prof. Sophia E. Hayes Washington University -- Dept. of Chemistry

5/9/2006

Microcapsule Biochemical Sensors: Assembling Molecules into Useful Micro/Nanosystems

Assoc. Prof. Michael J. McShane Louisiana Tech University -- Biomedical Engineering & Institute for Micromanufa

5/16/2006

Synthesis and Property of Platinum-Based Nanostructures
Prof. Hong Yang University of Rochester -- Chemical Engineering

5/23/2006

Big problems and simple solutions in nanotribology - gas adsorption
Asst. Prof. Seong H. Kim Pennsylvania State University -- Dept. of Chemical Engineering

5/30/2006

Genetically Engineered Materials - Fundamentals and Applications in Materials and Medicine
Prof. Mehmet Sarikaya University of Washington -- NSF/UW-MRSEC

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