

CENTER FOR  
**NANO TECHNOLOGY**  
AT THE UNIVERSITY OF WASHINGTON



# Seminar Schedule 2007 to 2008

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

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10/2/2007

**Multiscale Patterning of Plasmonic Metamaterials**

Assoc. Prof. Teri W. Odom, Dept. of Chemistry - Northwestern University

10/9/2007

**Engineering Novel Nanomaterials for Enhanced Biomedical Detection**

Asst Prof. Jong-in Hahm, Dept. of Chemical Engineering - Pennsylvania State University

10/16/2007

**Programmable Self-Organization: Robots behaving like molecules and molecules behaving like robots**

Asst. Prof. Erik Klavins, Dept. Electrical Engineering - University of Washington

10/23/2007

**Nanoscale Electromechanical Properties of Ferroelectric Polymers**

Prof. Stephen Ducharme, Dept. of Physics and Astronomy - Nebraska Center for Materials & Nanoscience

11/6/2007

**Microchip Technologies in Biology and Medicine**

Prof. Mehmet Toner, Biomedical Engineering - Harvard Medical School

11/13/2007

**Nano- and Micro-technology for Linking Mechanics to Biochemistry in Molecular and Cellular Behavior**

Assoc. Prof. Philip LeDuc, Dept. of Mechanical Engineering - Carnegie Mellon University

11/20/2007

**Seeing and Sensing the Invisible: Emerging Nanostructures and Devices for Bio-nano-medicine**

Prof. Vinayak P. Dravid, Materials Science & Engineering - Northwestern University

11/27/2007

**Neutron Scattering Techniques in the Characterization of Nanostructured Materials**

Asst. Prof. Danilo C. Pozzo, Dept. of Chemical Engineering - University of Washington

12/4/2007

**Will Nanotechnology Generate Deep Disagreements**

Andrew Light, Dept of Philosophy & Public Affairs - University of Washington

1/8/2008

**Electronic and Vibronic Spectroscopy of Molecular Junctions**

James Kushmerick, PhD, Surface and Interface Research Group - NIST

1/15/2008

**Bio-Inspired Low-Temperature, Kinetically Controlled Nanofabrication of Semiconductor and Ferroelectric Thin Films and Nanoparticles**

Prof. Daniel E. Morse, Molecular Genetics and Biochemistry - University of California, Santa Barbara

1/22/2008

**Bio-inspired Assembly of Functional Materials**

Asst. Prof. William L. Murphy, Biomedical Engineering, Pharmacology, and Material – U. of Wisconsin

1/29/2008

**Nanostructured Membrane Catalysis**

Prof. Peter C. Stair, Dept. of Chemistry - Northwestern University

2/5/2008

**DYNAMICS ON THE NANOSCALE: Time-domain ab initio studies of quantum dots and carbon nanotubes.**

Prof. Oleg Prezhdo, University of Washington - Dept. of Chemistry

2/12/2008

**Optically Activatable Nanoparticles for Targeted Imaging and Therapy of Cancer**

Assoc. Prof. Rebekah Drezek, Dept. of Electrical and Computer Engineering - Rice University

2/19/2008

**The metal-insulator phase transition in vanadium oxide nanostructures**

Assoc. Prof. David Cobden, Dept. of Physics - University of Washington

2/26/2008

**Development of Molecular Simulation Capabilities to Study Protein-Surface Interactions: Obstacles and Solutions**

Prof. Robert A. Latour, Dept. of Bioengineering - Clemson University

3/4/2008

**Controlling Quantum Dynamics Phenomena with Shaped Laser Pulses Acting as Photonic Reagents**

Prof. Herschel Rabitz, Dept. of Chemistry - Princeton University

3/11/2008

**Controlling the diffraction limit and the group velocity with active anisotropic metamaterials**

Asst. Prof Viktor Podolskiy, Dept. of Physics - Oregon State University

4/1/2008

**Nanoparticles as Modulators of Cell Shape and Function**

Asst. Prof. Prasad Shastri, Dept. of Biomedical Engineering - Vanderbilt University

4/8/2008

**Molecular foundation of cancer: a chemical biology approach**

Prof. Weihong Tan, Dept. of Chemistry - University of Florida

4/15/2008

**Multiresolution Mathematical Analysis Framework- Integrated Materials Design to Molecular Bio-Regenerative Engineering**

Prof. Wing Kam Liu, Dept. of Mechanical Engineering - Northwestern University

4/22/2008

**Multifunctional Pharmaceutical Nanocarriers for Therapy and Diagnostics**

Prof. Vladimir Torchilin, Center for Pharmaceutical Biotech & Nanomed - Northeastern University

4/29/2008

**RESPONSIVE NANOPOROUS ORGANIC-INORGANIC COLLOIDAL MATERIALS**

Asst. Prof. Ilya Zharov, Dept of Chemistry - University of Utah

5/6/2008

**Nanomolecules and Nanoparticles in Optical Imaging of Tumors**

Prof. Samuel Achilefu, Optical Radiology Lab - Washington University

5/13/2008

**Molecular Design of Ultra Low Fouling Materials for Biomedical Applications**

Prof. Shaoyi Jiang, Chemical Engineering - University of Washington

5/20/2008

**Tumor Targeting Theory & Experiment: Torpedoes or Floating mines**

Prof. K. Dane Wittrup, Chemical & Biological Engineering - Massachusetts Institute of Technology

5/27/2008

**Exploiting Nature's Design; Tailorable Nanotubes from a Simple Protein Building Block**

**Asst. Prof. Joseph Mougous**, Dept. of Microbiology - University of Washington

6/3/2008

**Studying individual events in biology: Insights from viruses to cancer**

**Prof. Sanford Simon**, Laboratory of Cellular Biophysics - Rockefeller University

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