



## **Seminar Schedule 2009 to 2010**

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

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**10/1/2009**

Special Seminar - Tailor-Made Nano Structured Materials for Highly Qualified Spin Related Devices  
Prof. Migaku Takhashi Department of Electronic Engineering -- Tohoku University

**10/6/2009**

Development of Polymeric Nanoconjugates for Cancer Treatment  
Prof. Jianjun Cheng, Dept. of Materials Science and Engineering -- University of Illinois at Urbana Champaign

**10/13/2009**

Single-molecule Dynamics of Nanocatalysis and Bioinorganic Chemistry  
Asst. Prof. Peng, Chen Department of Chemistry and Chemical Biology --Cornell University

**10/20/2009**

Coupled surface plasmon resonances in nanostructured metal-dielectric systems  
Prof. Pieter Kik, Dept. of Optics and Physics -- University of Central Florida

**10/27/2009**

Development of peptide-based polymers for gene delivery to the CNS  
Asst. Prof, Suzie Pun, Department of Bioengineering -- University of Washington

**11/3/2009**

Elucidating the Structure and Function of Membrane Proteins Through Nanotechnology  
Prof. Stephen Gary Sligar, Dept of Biochemistry -- University of Illinois

**11/10/2009**

Nanoporous Carbon Materials - How They Benefit Our Lives and the Environment  
Dr. Fred Baker, Oak Ridge National Laboratory

**11/17/2009**

Size and composition dynamics of nanoparticle electrocatalysts  
Prof. Michael F Toney, Synchrotron Radiation Lightsource -- Stanford University

**11/24/2009**

Introduction to NanoTech User Facility (NTUF)  
Alec Pakhomov PhD, NanoTechnology User Facility -- University of Washington

**12/1/2009**

Nanoparticle biological assays: In vitro cell lines compared with zebrafish whole-organism models  
Prof. Dave Grainger, Dept. of Bioengineering -- University of Utah

**12/8/2009**

Magnetically Tunable Photonic Nanostructures: Making Colors with Magnets  
Asst. Prof. Yadong Yin, Dept. of Chemistry -- University of California-Riverside

**1/5/2010**

Building Functional Nanostructures with Proteins  
Prof. François Baneyx, Dept of Chemical Engineering -- University of Washington

**1/12/2010**

The Effect of Nanoscale to Mesoscale Structures in Organic Photovoltaic Devices  
Asst. Prof. Christine Luscombe, Dept. of Materials Science & Engineering -- University of Washington

**1/19/2010**

IP Commercialization: Industry/Investor Perspectives and Guidance for Researchers  
Panel of Speakers, Arts & Science Intellectual Property Office -- University of Washington

**1/26/2010**

Spins in Semiconductor Nanocrystals  
Prof. Daniel R. Gamelin, Dept. of Chemistry -- University of Washington

**2/2/2010**

Surface Characterization of Functionalized Nanoparticles  
Prof. David Castner, Dept. of Chemical Engineering -- University of Washington

**2/9/2010**

Optical microscopy of cells in capillary tubes for advanced clinical cancer diagnosis  
Prof. Eric J. Seibel, Mechanical Engineering -- University of Washington

**2/16/2010**

Microfluidics enhanced materials synthesis  
Assoc. Prof. Amy Shen, Dept. of Mechanical Engineering -- University of Washington

**2/23/2010**

Designing Nanomaterials for Energy Conversion and Storage  
Asst. Prof. Yi Cui, Stanford University -- Dept. of Materials Science and Engineering

**3/2/2010**

From Micro Assembly to Small-Scale Power and Energy Systems: Creating New Capabilities at the Micro and Nano Scales  
Assoc. Prof. Carol Livermore, Dept. of Mechanical Engineering -- Massachusetts Institute of Technology

**3/9/2010**

Plasmon-enhanced imaging and spectroscopy with ultrahigh spatial resolution  
Samuel Berweger, Dept. of Chemistry -- University of Washington

**3/16/2010**

Special Seminar: "Invention of Carbon Nanotubes and Implications in Nanoscience and Nanotechnology"  
Prof. Sumio Iijima, Dept. of Physics -- Nagoya University

**3/30/2010**

Multiscale modeling and simulation – application to the study of self-assembly and protein mechanical properties  
Asst. Prof. Jim Pfaendtner, Dept. of Chemical Engineering -- University of Washington

**4/6/2010**

SIMS in Cell Biology and Medicine: Single Cell Imaging of Calcium Influx and Studies of Boron Neutron Capture Therapy of Cancer  
Subhash Chandra, Ph.D. SIMS Laboratory -- Cornell University

**4/13/2010**

Dynamic critical exponents in a two-dimensional lipid membrane with conserved order parameter  
Aurelia R. Honerkamp-Smith, Dept. of Chemistry -- University of Washington

**4/20/2010**

Poly(lipid) supramolecular assemblies: Structure, function, and bioanalytical applications  
Prof. Scott Saavedra, Dept. of Chemistry and Biochemistry -- University of Arizona

**4/27/2010**

Single Digit Nanopatterning

Deirdre Olynick, Ph.D., Molecular Foundry -- UC - Berkeley

**5/4/2010**

Designer DNA Architectures for Nanotechnology

Prof. Hao Yan, Dept of Chemistry & Biochemistry -- Arizona State University

**5/11/2010**

Reinterpreting the Genetic Code

Prof. David A. Tirrell, Chemistry and Chemical Engineering -- California Institute of Technology

**5/18/2010**

Engineering Polymer Particles for Drug Delivery

Prof. Samir Mitragotri, Dept. of Chemical Engineering -- Univ. of California, Santa Barbara

**5/25/2010**

Engineering Band Gap and Energy Levels of Conjugated Polymers for Organic Solar Cells

Asst. Prof. Wei You, Dept. of Chemistry -- University of North Carolina, Chapel Hill

**6/1/2010**

Probing and Engineering Ferroelectric Nanostructures via Piezoresponse Force Microscopy

Xiaoyan Liu, Department of Materials Science and Engineering -- University of Washington

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