

Nanotechnology Seminars 2004 to 2005

All seminars took place in Bagley Hall Room 260 (On the 2nd floor, near the stairwell closest to the loading dock and Benson Hall) on Tuesdays at 12:30 - 1:20 PM

6/21/2004

Assembly of Metal Nanoparticles on Oxide Surfaces

Dr. Claude R. Henry CRM-CNRS -- Campus de Luminy

8/23/2004

Special Seminar! - Oxide Surfaces: Finding the Atoms then Finding the Electrons Speaker

Prof. Laurence Marks Department of Materials Science and Engineering -- Northwestern University

9/29/2004

Start of the 2004 to 2005 Season

Instruction Begins University of Washington -- Center for Nanotechnology

10/5/2004

Microfluidics, Sensors, and Imaging for Monitoring Living Cells: Applications to Islets of Langerhans

Prof. Robert Kennedy University of Michigan -- Department of Chemistry

10/12/2004

Paracyclophane-Based Nonlinear Optical Materials: Higher Dimensionality Through Regiochemical Control And Strategies for Polymer Infiltration into Nanocrystalline Titania Frameworks

Asst. Prof. Glenn Bartholomew University of Washington -- Department of Chemistry

10/19/2004

Cells, Gels and the Engines of Life: A Fresh Paradigm for Cell Function

Prof. Gerald H. Pollack University of Washington -- Bioengineering

10/26/2004

Making Nanoscale Structures: from Microelectronics to Biotechnology

Asst. Prof. Eric Klavins Department of Electrical Engineering -- University of Washington

11/2/2004

Self-assembly of DNA Nanostructures

Asst. Prof. Chengde Mao Department of Chemistry -- Purdue University

11/9/2004

Measuring Cell to Cell Signaling in the Brain: From microfluidic sampling, capillary separations and mass spectrometry

Prof. Jonathan Sweedler Dept. of Chemistry -- University of Illinois, Urbana Champaign

11/16/2004

Using Self-Assembly to create electronic materials

Asst. Prof. Colin Nuckolls Department of Chemistry -- Columbia University

11/23/2004

Growth and Dissolution of Cholesterol Crystals

Asst. Prof. Jennifer A. Swift Department of Chemistry -- Georgetown University

11/30/2004

Strategies of Finding New Oxide Systems for Thermoelectric Energy Conversion

Prof. Fumio Ohuchi University of Washington -- Department of Material Science and Engineering

12/7/2004

Organic Thin Film Electronics: A Materials Engineering Perspective

Assoc. Prof. C. Daniel Frisbie Depts. of Chemical Engineering and Mat. Science -- University of Minnesota

1/4/2005

New views of the microscopic: electric force microscopy of organic electronic materials and ultrasensitive magnetic resonance imaging by mechanical detection

Asst. Prof. John A. Marohn Dept. of Chemistry and Chemical Biology -- Cornell University

1/11/2005

Thermal and Electrical Transport in Carbon Based Nanoscale Materials

Asst. Prof. Philip Kim Department of Physics -- Columbia University

1/18/2005

Engineering DNA Devices

Asst. Prof. Niles Pierce Department of Bioengineering -- Caltech

1/25/2005

F-V/SMS: A New Technique for Studying the Structure and Dynamics of Single Molecules and Nanoparticles

Prof. Paul F. Barbara Dept. of Chemistry and Biochemistry -- University of Texas

2/1/2005

Charge and Spin Transport in Carbon Nanotubes

Assoc. Prof. Bruce Alphenaar Dept. of Electrical and Computer Engineering -- University of Louisville

2/8/2005

Molecular Nanostructures: Modeling Assembly, Capacitance, Hysteresis, DNA And Switching

Prof. Mark Ratner Department of Chemistry -- Northwestern University

2/15/2005

Self-Assembled DNA Nanostructures for Molecular Scale Patterning, Computation and Motors

Prof. John Reif Department of Computer Science -- Duke University

2/22/2005

Nano-biotechnology: The design of better tissue engineering materials

Asst. Prof. Thomas J. Webster Dept. of Materials Engineering -- Purdue University

3/1/2005

Intrinsic Electron Conduction Mechanisms in Molecules

Prof. Mark Reed Department of Engineering -- Yale University

3/8/2005

Laser-Nanosphere Interactions: Optical Enhancement, Nanomanufacturing, and Near-field Heat Transfer

Asst. Prof. Shaochen Chen Department of Mechanical Engineering -- University of Texas at Austin

3/29/2005

Synthesis of V₂O₅ Nanostructures for Efficient Electrochemical Intercalation

Assoc. Prof. Guozhong Cao University of Washington -- Dept. of Materials Science and Engineering

4/5/2005

Microelectrodes, Ion Beams and Nanocapillaries: How to Probe Chemistry and Biophysics at Single Cells

Prof. Andrew Ewing Department of Chemistry -- Pennsylvania State University

4/12/2005

Biophotonic Imaging by Catching Echoes of Light

Xingde Li, Ph.D. University of Washington -- Dept of Bioengineering

4/19/2005

Valency and self-assembly represent key parameters in peptide-based drug delivery

Jean Gariépy, Ph.D. Division of Molecular and Structural Biology -- Ontario Cancer Institute

4/26/2005

Nanoparticle Optics for Surface-Enhanced Sensing and Spectroscopy

Prof. Richard Van Duyne Department of Chemistry -- Northwestern University

5/3/2005

Nano- and Meso-scale Chiral Supramolecular Systems: Rational Design and Novel Applications

Assoc. Prof. Wenbin Lin Department of Chemistry -- University of North Carolina at Chapel Hill

5/10/2005

On-Chip Dielectrophoretic Manipulation and Assembly of Nanoparticles, Live Cells and Droplets

Asst. Prof. Orlin D. Velev Department of Chemical Engineering -- North Carolina State University

5/17/2005

Nano Biomaterials for Regeneration

Prof. Peter Ma Biologic & Materials Sciences -- University of Michigan

5/24/2005

Bioimaging with Mass Spectrometry

Prof. Nick Winograd Dept. of Chemistry -- Penn State University

5/31/2005

Enhanced stability and activity of immobilized enzymes in functionalized nanoporous silica

Eric Ackerman, Ph.D. Pacific Northwest National Laboratory -- Systems Biology