

Nanotechnology Seminars 2002 to 2003

All seminars take 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

10/1/02

Soft Materials and Patterning Techniques for Flexible and Nanoscale

Dr. John Rogers, Director Bell Laboratories, Lucent Technologies -- Condensed Matter Physics Research

Host: Assoc. Prof. Younan Xia Department of Chemistry

10/8/02

Carbon Nanotube Nanoelectronics -- The Inside Story

A. T. Charlie Johnson, Jr., - University of Pennsylvania -- Assoc. Prof. of Phys. & Astro.

Host: David Cobden Department of Physics

10/15/02

Colloidal Diluted Magnetic Semiconductor Quantum Dots: From Synthesis to Spintronics

Pavle Radovanovic - Nanotechnology Student Association -- Chemistry (Nanotechnology)

10/22/02

Nanopore Technology: Prospects for Haplotyping and High-speed single molecule DNA sequencing

Prof, Dan Branton, Harvard University -- Department of Molecular and Cellular Biology

Host: Bingyun Sun, Nanotechnology Student Association

10/29/02

Multifunctional Gold Nanoparticles for Biomolecule Detection and Intracellular Drug Delivery

Prof. Daniel Feldheim, North Carolina State -- Department of Chemistry

Host: Assoc. Prof. Younan Xia Department of Chemistry

11/5/02

Nanotechnology at the University of Washington

Vogel, Campbell, Xia, & Qin, University of Washington -- Center for Nanotechnology

11/12/02

Exploring the transistions: macro-, meso-, micro-, and nanofluidics

Mark R. Holl, Research Assistant Professor University of Washington -- Dept. of Electrical Engr.

11/19/02

Nanotube Nanoelectronics

Asst. Prof. Michael Fuhrer Department of Physics -- University of Maryland

Host: Asst. Prof. David Cobden, Department of Physics

11/26/02

Solution-Phase Approaches to Chalcogen and Chalcogenide Nanowires
Brian T. Mayers, - Nanotechnology Student Association -- Chemistry (Nano)

12/3/02

Self-Assembly Approaches to Photonic Devices
Yadong Yin, University of Washington -- Mat Sci & Engineering (Nanotechnology)

12/10/02

Infrared and Electrochromic Materials: Semiconductor Colloid Quantum dots
Dr. Guyot-Sionnest University of Chicago -- Dept of Chemistry
Host: Daniel R. Gamelin Asst. Prof., Dept. of Chemistry

1/7/03

DNA Chips: Theory and Simulation
Monte Pettitt Department of Chemistry -- University of Houston
Host: Shaoyi Jiang, Associate Professor - Department of Chemical Engineering

1/14/03

Molecular Electronics
Duncan Stewart, PhD, -- Hewlett-Packard Laboratories
Host: Prof. Sam Fain, Department of Physics

1/21/03

The Role of Dendritic Polymers in the Nanotechnology Revolution
Dr. Donald Tomalia, Central Michigan University -- Distinguished Research Scientist/Professor
Host: Shaoyi Jiang, Assoc. Prof. Dept of Chemical Engineering

1/28/03

The Importance of Nothing in Nanostructured Materials
Debra R. Rolison, Ph.D. Naval Research Laboratory -- Surface Chemistry Branch
Host: Summer Randall Nanotechnology Student Association

2/4/03

Nanoscale Biosensors and Biomaterials
Asst. Prof. Ashutosh Chilkoti Duke University -- Dept. of Biomedical Engineering
Host: Prof. David Castner Dept. of Bio and Chemical Engineering

2/12/03

Investigation of the Structure and Dynamic of Proteins on Surfaces by EPR Spectroscopy
Dr. Thomas Risse Fritz-Haber-Institut -- Dept of Chemical Physics
Host: Prof. Bruce Robinson Department of Chemistry

2/18/03

Polar Nanostructure and Relaxor Ferroelectric Materials

Zuo-Guang Ye Simon Fraser University -- Department of Chemistry

Host: Professor Bart Kahr, Department of Chemistry

2/27/03

Nanowires and Self-Assembly: Synthesizing the Computer of the Future

Thomas E. Mallouk Pennsylvania State University -- Department of Chemistry

Host: Younan Xia, Associate Professor Department of Chemistry

3/4/03

Nanotubes in Electronics: Theory and Applications

Neil Goldsman University of Maryland at College Park -- Dept. of Electrical Engineering

Host: Scott Dunham, Assoc. Prof, Dept. of Electrical Engineering

4/1/03

Phenalenyl-Based Neutral Radical Molecular Conductors

Distinguished Professor, Robert Haddon Department of Chemistry -- University of California, Riverside

Host: Asst. Prof. Natia Frank Department of Chemistry

4/8/03

New Biosensor Strategies Based on Nano-Scale Light Harvesting Water Soluble Conjugated Polymers

Prof. Guillermo Bazan, Department of Materials -- University of California - Santa Barbara

Host: Prof. Alex K-Y. Jen, Dept. of Mat. Sci.& Engr.

4/15/03

Mechanical constraints on gene expression: hints from single molecule studies

Asst. Prof. Michelle D. Wang Department of Physics -- Cornell University

Host: Asst. Prof. Daniel Chiu, Department of Chemistry

4/22/03

Spatially and temporally resolved delivery of stimuli onto single cells

Bingyun Sun, University of Washington -- Department of Chemistry

4/29/03

Single Particle Tracking (SPT) of Membrane Proteins on Intact Southeast Asian Ovalocytosis Red Blood Cells (SAO RBCs)

David Golan, Harvard Medical School -- Dept of Biological Chemistry and Molecular Pharmac

Host: Sarah Veatch Nanotechnology Student Association

5/6/03

Molecular Imaging and Targeted Therapeutics with Perfluorocarbon Nanoparticle

Samuel A. Wickline, M.D. Washington University School of Medicine -- Co-Director, Cardiovascular Division

Host: Prof. Pat Stayton, Department of Bioengineering

5/13/03

Clusters of Inorganic Nanoparticles: Bonding, Properties and Applications

Prof. Frank Osterloh, University of California - Davis -- Dept of Chemistry

Host: Daniel R. Gamelin Asst. Prof., Dept of Chemistry

5/20/03

Measuring Electron Spin in Mesoscopic Systems

Josh Folk, Department of Physics -- MIT

Host: Assistant Professor, David H Cobden - Department of Physics

5/27/03

Nano-transistor Research for High-Performance, Low-Power Microprocessor Applications

Dr. Robert Chau, Intel Corporation -- Intel Fellow and Director of Transistor Research

Host: Nanotechnology Student Association