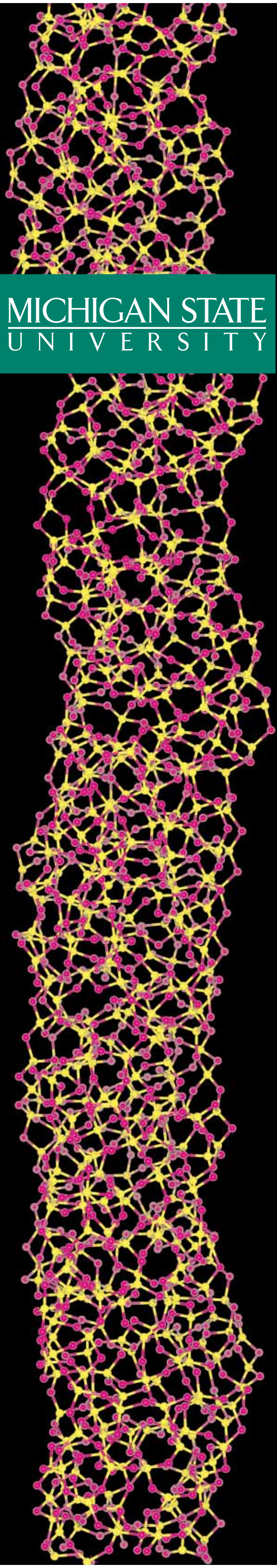

SCIENCE at the Edge

Traditionally distinct science disciplines are merging to create new opportunities. Share the excitement and challenge each week through seminars and discussions with nationally recognized pioneers in science at the edge.

SPRING SEMESTER 2004 ***MICHIGAN STATE UNIVERSITY***

Seminars Begin at 11:30 a.m.,
Refreshments Served at 11:15 a.m.
All Seminars are in Room 1400 Biomedical and Physical Sciences Building unless otherwise noted.

Friday, January 23 – Center for Biological Modeling Seminar
John Marko, University of Illinois at Chicago, Department of Physics
Micromechanical Study of DNA Organization from Protein-DNA Interactions to Whole Chromosomes

Friday, January 30 – Campus Theory Seminar
Bill Wedemeyer, Michigan State University, Departments of Biochemistry and Physics and Astronomy
Folding Proteins on a Laptop

Friday, February 6 – Engineering Seminar
Christopher Ober, Cornell University, Department of Materials Science and Engineering
Advances in Lithography: Taking Nanoscale Structures from Microelectronics to Biotechnology

Friday, February 13 – Center for Biological Modeling Seminar
So Hirata, William R. Wiley Environmental Molecular Sciences Laboratory and Pacific Northwest National Laboratory
"Computational" Spectroscopy for Molecules and Polymers

Friday, February 20 – Campus Theory Seminar
Ethan Vishniac, Johns Hopkins University, Department of Physics and Astronomy
Magnetic Fields in Stars and Galaxies: Dynamo Theory in the 21st Century

Friday, February 27 – Engineering Seminar
Michael Strano, University of Illinois at Urbana-Champaign, Department of Chemical and Biomolecular Engineering
Understanding and Exploiting the Surface Chemistry of Single Walled Carbon Nanotubes

Friday, March 5 – Center for Biological Modeling Seminar
Peter Kuhn, Palo Alto Research Center, The Scripps Research Institute
High-Throughput Biophysical Methods in Structural Proteomics and Drug Discovery

Friday, March 19 – Campus Theory Seminar
Turab Lookman, Los Alamos National Laboratory, Theory Division
Elasticity-Driven Nanoscale Texturing in Functional Materials

Friday, March 26 – Engineering Seminar
Bernd Gotsmann, IBM Zurich Research Laboratory
Nanoindentation of Polymers with Heated Tips: Data Storage Applications and Fun(damental) Science

Friday, April 2 – Center for Biological Modeling Seminar
Stephen Harvey, Georgia Institute of Technology, School of Biology
Molecular Modeling Approaches to Understanding Viral Assembly

Friday, April 9 – Campus Theory Seminar
Ned Wingreen, NEC Laboratories America, Inc.
E. Coli's Division Decision: Modeling Min-Protein Oscillations

Friday, April 16 – Engineering Seminar
Eric Amis, NIST Materials Science and Engineering Laboratory, Polymers Division
Exploiting the Innovators Dilemma: New Paradigms in Polymer Science

Friday, April 23 – Center for Biological Modeling Seminar
1:00 p.m. in Room 1415 BPS Building
Wah Chiu, Baylor College of Medicine, Department of Biochemistry and Molecular Biology
Electron Cryomicroscopy of Macromolecular Complex

Friday, April 30 – Campus Theory Seminar
Mark Newman, University of Michigan, Department of Physics
Large-Scale Structure of Social and Biological Networks

SEMINAR ORGANIZERS:

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