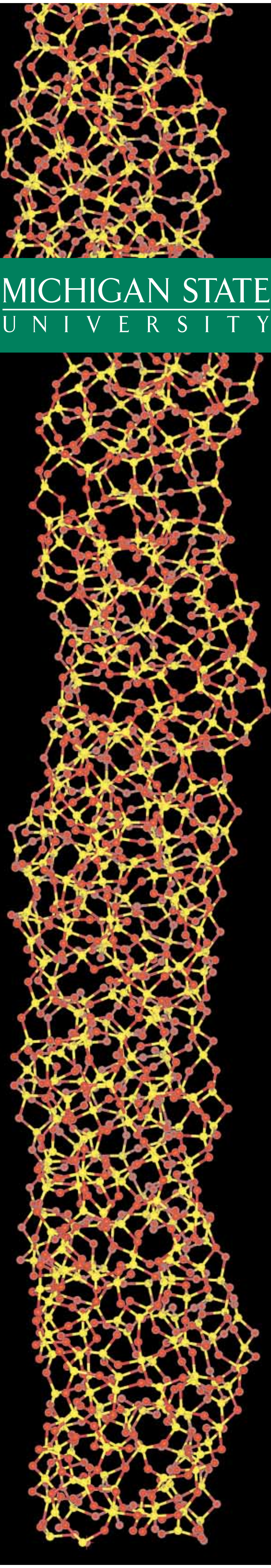

MICHIGAN STATE
UNIVERSITY

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.

FALL SEMESTER 2003 **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

Friday, September 5 – Campus Theory Seminar
Stefan Boettcher, Emory University, Physics
Using Extremal Dynamics to Optimize Large Disordered Systems

Friday, September 12 – Center for Biological Modeling Seminar
Ioan Andricioaei, University of Michigan, Chemistry
Changes in the Energy Landscape: From Simple Peptides to a DNA Polymerase Complex

Friday, September 19 – Engineering Seminar
Paula Hammond, Massachusetts Institute of Technology, *Chemical Engineering*
Polymer Multilayer Assembly and Chemically Directed Surface Patterning

Friday, September 26 – Campus Theory Seminar
Anil Jain, Michigan State University, Computer Science and Engineering
Biometric Authentication: How Do I Know Who You Are?

Friday, October 3 – Engineering Seminar
Paul West, Pacific Nanotechnology
Nanotechnology and the Atomic Force Microscope

Friday, October 10 – Center for Biological Modeling Seminar
Lydia Kavraki, Rice University, Computer Science and Bioengineering
Modeling the Conformational Flexibility of Proteins

Friday, October 17 – Campus Theory Seminar
1:00 p.m. Joint with CBM Symposium on Biological Networks
Mark Newman, University of Michigan, Physics
The Structure of Social and Biological Networks

Friday, October 24 – Center for Biological Modeling Seminar
C. Titus Brown, California Institute of Technology, Davidson Laboratory
Towards an Understanding of Development: Gene Regulatory Networks and cis-Regulation

Friday, October 31 – Engineering Seminar
Kenneth Carter, IBM-Almaden
Surface Reactions from Patterned Crosslinked Networks

Wednesday, November 5 – Joint Mathematics/Center for Biological Modeling Seminar
John Schotland, University of Pennsylvania, Bioengineering
Optical Tomography at the Nanoscale

Friday, November 7 – Center for Biological Modeling Seminar
Teresa Head-Gordon, University of California-Berkeley, Bioengineering
Computational and Experimental Methods Applied to Protein Structure and Function

Friday, November 14 – Campus Theory Seminar
Vijay Pande, Stanford University, Chemistry
Folding@Home: Using Worldwide Grid Computing to Tackle Fundamental *Barriers in Biomolecular Simulation*

Friday, November 21 – Engineering Seminar
Stuart Rowan, Case Western Reserve University, Macromolecular Science and Engineering
Supermolecular Polymerization, A Route to Responsive Materials

SEMINAR ORGANIZERS:

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