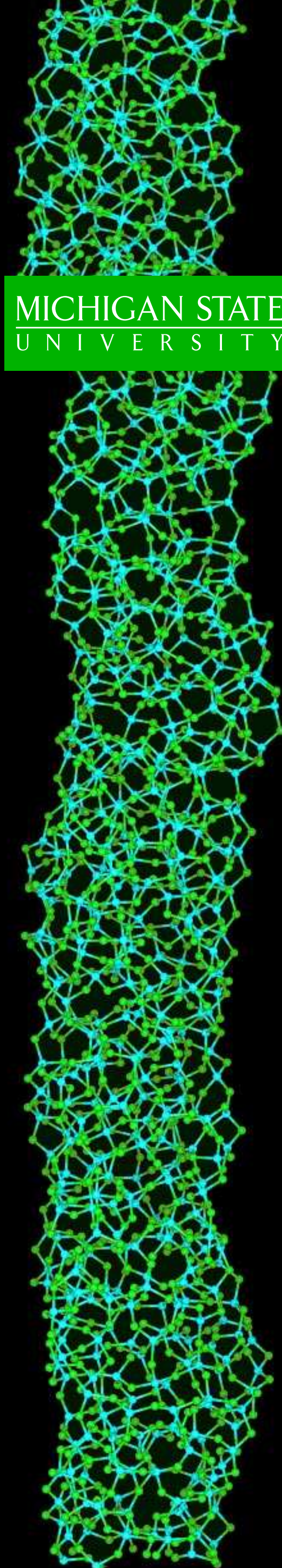

MICHIGAN STATE UNIVERSITY

SCIENCE at the Edge

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

SPRING SEMESTER 2001 *MICHIGAN STATE UNIVERSITY*

Seminars begin at 11:30 a.m., Refreshments served at 11:15 a.m.

Friday, January 12 - Room 224 Physics-Astronomy Building
Ned Wingreen, NECI Princeton
Designability of Protein Structures

Friday, January 19 - Room 208 Biochemistry Building
Chris Adami, California Institute of Technology
Evolution in Digital Organisms

Friday, January 26 - Room 1281 Anthony Hall, Engineering Building
Don Brenner, North Carolina State University
Atomistic Modeling of the Inorganic and Organic Carbon World

Friday, February 2 - Room 224 Physics-Astronomy Building
Walter Whiteley, York University, Canada
Rigidity of Molecular Structures

Friday, February 9 - Room 224 Physics-Astronomy Building
Gunter Wagner, Yale University
The Evolution of Mutational Robustness: Opportunities from Constraints

Friday, February 16 - Room 224 Physics-Astronomy Building
Albert-László Barabási, Notre Dame University
Nineteen Degrees of Separation: The Topological Structure of the WWW

Friday, February 23 - Room 208 Biochemistry Building
Charles Taylor, University of California, Los Angeles
Population Structure of the Malaria Vector, Anopheles Gambiae, in Mali, West Africa

Friday, March 2 - Room 1281 Anthony Hall, Engineering Building
Jim Davidson, Vanderbilt University
Applying Diamond Films

Friday, March 16 - Room 1281 Anthony Hall, Engineering Building
Giles Brereton, Michigan State University
Oxygenation by Liquid Infusion in Medicine/Environment

Friday, March 23 - Room 224 Physics-Astronomy Building
Tien Yien Li, Michigan State University
Solving Polynomial Systems

Friday, March 30 - Room 1281 Anthony Hall, Engineering Building
Mehmet Toner, Harvard Medical School
Hepatic Tissue Engineering

Friday, April 6 - Room 208 Biochemistry Building
Gloria Elliott, Michigan State University
Death by Freezing: Thermophysical Response of Tissues to Low Temperatures

Friday, April 13 - **Room 224 Physics-Astronomy Building**
Erik Demaine, University of Waterloo, Canada
Folding and Unfolding Linkages, Paper, and Polyhedra

Friday, April 20 - Room 208 Biochemistry Building
Bruce Tidor, Massachusetts Institute of Technology
Solvation Effects on Protein Folding, Binding and Design: Exploring the Electrostatic Balance

Friday, April 27 - Room 208 Biochemistry Building
Regis Pomes, University of Toronto
Modeling Proton and Water Movement in Proteins

Friday, May 4 - Room 224 Physics-Astronomy Building
Samir Hanash, University of Michigan
Operomics: Integrating Genomics, Transcriptomics and Proteomics

Seminar Organizers:

Campus Theory Seminar: Room 224 Physics-Astronomy Building
M. F. Thorpe, Physics & Astronomy
thorpe@pa.msu.edu

Engineering Seminar: Room 1281 Anthony Hall, Engineering Building
Virginia Ayres, Electrical and Computer Engineering
ayresv@egr.msu.edu
John McGrath, Mechanical Engineering
mcgrath@msu.edu

Center for Biological Modeling Seminar: Room 208 Biochemistry Building
Shelagh Ferguson-Miller, Biochemistry and Molecular Biology
fergus20@msu.edu
Charles Ofria, Center for Microbial Ecology
ofria@msu.edu

Seminar details, including links to speaker homepages, are at: http://www.pa.msu.edu/seminars/ctss/ and http://biomodel.msu.edu/