

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 2005

MICHIGAN STATE UNIVERSITY

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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 9 – Engineering Seminar

Amy Walker, Washington University, St. Louis, MO
Towards Molecular Electronic Circuitry: Selective Deposition of Metals on Patterned Self-Assembled Monolayer Surfaces

Friday, September 16 - Interdisciplinary Physics Seminar

Giovanni Paternostro, The Burnham Institute, LaJolla, CA
Systems Biology of Aging

Friday, September 23 - Quantitative Biology and Modeling Seminar

Matthew Young, University of Michigan, Ann Arbor, MI
Structure and Computational Investigations of Protein Kinase Regulation and Implications for Drug Therapy Targeting the Bcr-Abl Oncogene

Friday, September 30 - Interdisciplinary Physics Seminar

Simon Billinge, Michigan State University, East Lansing, MI
The Nanostructure Problem

Friday, October 7 – Engineering Seminar

Christina Chan, Michigan State University, East Lansing, MI
TIPSCO for Reconstructing Signaling Networks from High-Throughput Data

Friday, October 14 - Quantitative Biology and Modeling Seminar

Jeffrey Gray, Johns Hopkins University, Baltimore, MD
Computational Protein Structure Prediction Applied to Docking, Therapeutic Antibodies, and Allostery

Friday, October 21 - Interdisciplinary Physics Seminar

Amalie Frischknecht, Sandia National Laboratories, Albuquerque, NM
Molecular Theory of Lipid Bilayers

Friday, October 28– Engineering Seminar

Matteo Pasquali, Rice University, Houston, TX
Single-Walled Carbon Nanotubes in Liquids

Friday, November 4 - Quantitative Biology and Modeling Seminar

Ronen Marmorstein, Wistar Institute, University of Pennsylvania, Philadelphia, PA
Structure and Chemistry of Histone Modification and Targeting in Chromatin Regulation

Friday, November 11 - Interdisciplinary Physics Seminar

Robert Tycko, NIDDK, National Institutes of Health, Bethesda, MD
Alzheimer's Amyloid Fibrils, Nuclear Magnetic Resonance, and their Connections

Friday, November 18 – Engineering Seminar

Vladimir Tarbara, Michigan State University, East Lansing, MI
Yin and Yang of Particle Deposition in Membrane-Based Separation Processes

Friday, December 2 - Quantitative Biology and Modeling Seminar

Andrey Rzhetsky, Columbia University, New York, NY
Of Truth and Pathways

SEMINAR ORGANIZERS:

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