MICHIGAN STATE UNIVERSITY



SCIENCE at the Edge

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

Fall Semester 2007

Seminars are on Fridays at 11:30 a.m. with refreshments served at 11:15 a.m. 1400 Biomedical and Physical Sciences Building (unless noted otherwise)

August 31 - Interdisciplinary Physics Seminar

Vladimir Bulović, Lab of Organic Optics and Electronics, MIT Large Area Nanostructured Optoelectronics

September 7 – Engineering Seminar

Jong-in Hahm, Department of Chemical Engineering, Penn. State University Engineering Novel Nanomaterials for Enhanced Biomedical Detection

September 14 - Quantitative Biology and Modeling Seminar

Hongzhe Li, Department of Biostatisitics and Epidemiology, Univ. of Penn. *Statistical Methods for Network-Based Analysis of Genomic Data*

September 21 - Interdisciplinary Physics Seminar

Vladimir Agranovich, NanoTech Institute, University of Texas at Dallas Hybrid Organic/Inorganic Nanostructures: New Science and New Devices

September 28 - Quantitative Biology and Modeling Seminar

David Arnosti, Dept. of Biochemistry & Molecular Biology, Michigan State Univ. Revealing a Gene Regulatory Grammar through Quantitative Measurement and Modeling of Drosophila Gene Expression

October 5 – Engineering Seminar

Bruce Dale, Dept. of Chemical Eng. & Materials Science, Michigan State Univ. Why Cellulosic Ethanol is Nearer than You Think: Creating the Biofuels Future

October 12 - Interdisciplinary Physics Seminar

Lois Pollack, School of Applied and Engineering Physics, Cornell University Ion-Nucleic Acid Interactions: New Insights from X-Ray Scattering Experiments

October 19 – Engineering Seminar

Michael Paulaitis, Dept. of Chemical & Biomolecular Eng., Ohio State University Cellular Microarrays to Characterize Immune Response

October 26 - Quantitative Biology and Modeling Seminar

Kenneth Merz, Jr., Department of Chemistry, University of Florida Is Biology Quantum Mechanical?

November 2 - Interdisciplinary Physics Seminar

Lisa Lapidus, Department of Physics and Astronomy, Michigan State University The Surprising Complexity of Protein L Folding

November 16 – Engineering Seminar

Kris Gunsalus, Department of Biology, New York University Probing Molecular Networks in C. elegans Early Development



November 30 – Engineering Seminar

Matthew Delisa, Dept. of Chemical & Biomolecular Eng., Cornell University Engineering the Protein Folding Landscape in Simple Bacteria for Solving Complex Problems in Biology and Medicine

December 7 - Interdisciplinary Physics Seminar

Laszlo B. Kish, Electrical and Computer Engineering, Texas A&M University Secure Classical Communication Via Wires, and Some Other Topics of Thermal Noise Informatics

TBA - Quantitative Biology and Modeling Seminar

Peter Beerli, Department of Biological Sciences, Florida State University Population Genetic Inference and Computers

Organizers

Carlo Piermarocchi (carlo@pa.msu.edu) & Lisa Lapidus (lapidus@pa.msu.edu), Dept. of Physics & Astronomy Christina Chan (krischan@egr.msu.edu) & Michael Mackay (mackay@msu.edu), Department of Chemical Engineering & Materials Science Michael Feig (feig@msu.edu), Marianne Huebner (huebner@msu.edu), and Charles Ofria (ofria@msu.edu), Quantitative Biology & Modeling Initiative