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 Biostatistics 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*

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Organizers

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Christina Chan (krischan@egr.msu.edu) & Michael Mackay (mackay@msu.edu), Department of Chemical Engineering & Materials Science
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