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.

Spring Semester 2017
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)

January 20
James Bardwell, Biological Chemistry, Molecular, Cellular and Developmental Biology, University of Michigan
Watching a Chaperone Fold a Protein at High Resolution

January 27
Mason Porter, Department of Mathematics, UCLA
Collective Behavior in Online Social Networks, Politicians, and Cows

February 3
Jennifer Marsman, Developer, Microsoft
Intro to Machine Learning: Predict Who Survives the Titanic

February 10
Jiali Gao, CSENG Chemistry, University of Minnesota
Combined Quantum Mechanical and Molecular Mechanical (QM/MM) Methods

February 17
Ursula Whitcher, Math Reviews, American Mathematical Society and Department of Mathematics, University of Wisconsin-Eau Claire
Mirror, Mirror: String Theory and Pairs of Polyhedra

February 24
Paul Jardine, Department of Diagnostic and Biological Sciences, University of Minnesota
Bacteriophage DNA Packaging as a Model for Ring Motors and Polymer Dynamics

March 3
John Stiller, Department of Biology, Eastern Carolina University
RNA Polymerase and the Evolution of Eukaryotes: Comparative Genomics Shakes the Tree-of-Life

March 17
Marilyn Gunner, Physics Department, City College of New York
Electron Transfer & Proton Transfer Reactions

March 24
Karen Davies, Lawrence Berkeley National Laboratory
Electron Cryo-Tomography of Mitochondria: The Role of ATP Synthase in Shaping Cristae

March 31
James Noonan, Department of Genetics, Yale University
Genetic Models of Human Evolution

April 7
Wenying Sheu, Molecular and Cellular Biology, University of Washington
The Survival of the Most Cooperative: Insights from Biological and Mathematical Systems

April 14
Michael Chabynic, Materials Department, University of California, Santa Barbara
Energy Conversion with Organic Semiconductors

April 21
Rongling Wu, Department of Public Health Sciences and Director of Center for Statistical Genetics, Pennsylvania State University
Statistical Genetics and Genomics

April 28
Sunduz Keles, Department of Biostatistics & Medical Informatics and Department of Statistics, University of Wisconsin, Madison
Statistical Analysis of Global Gene Expression Information

Organizers
Carlo Piermarocchi (carlo@pa.msu.edu), Richard Lunt (rlunt@egr.msu.edu), Engineering
David Arnosti (arnosti@msu.edu), & George Mias (gmias@msu.edu)
Quantitative Biology/Gene Expression in Development & Disease

Web streaming of Science at the Edge Seminars is available upon request. Please contact the organizers in advance.