

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.*

Spring Semester 2019

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 18

Xiaoqin Zou, Department of Biochemistry, University of Missouri
*Novel Strategies for Predicting Protein Interactions with Application to
Structure-Based Drug Design*

February 1

Sorin Draghici, Department of Computer Science and Department of Obstetrics
and Gynecology, Wayne State University
Discovering Disease Subtypes through the Integration of Multiple Types of Omics Data

February 8

Harold Ade, Physics Department, North Carolina University
*How Much? How Do We Know? Solar Energy Conversation Technology
and Global Warming in a Postmodern World*

February 15

Rebecca Anthony, Department of Mechanical Engineering,
Michigan State University
Nonthermal Plasmas for Next-Generation Nanomaterials

February 22

Michael Gooseff, Civil, Environmental and Architectural Engineering,
University of Colorado
Arctic Oases - Rivers and their Icings Promote Habitats and Hotspots Year Round

March 1

Danny Hatters, Department of Biochemistry and Molecular Biology
University of Melbourne
Proteostasis Imbalance in Health and Neurodegeneration

March 15

Rahul Satija, Center for Genomics and Systems Biology
New York University
Comprehensive Integration of Single Cell Data

March 22

Marius Pachitariu, Janelia Research Campus, Howard Hughes Medical Institute
High-Dimensional Problems in Neuroscience

March 29

JohnJoe McFadden, Molecular Genetics, University of Surrey, United Kingdom
Life on the Edge: The Coming of Age of Quantum Biology

April 5

Andre Bodnar, Gloucester Marine Genomics Institute
The Sea Urchin as a Model System for Cancer and Aging

April 26

Carlo Piermarocchi, Department of Physics and Astronomy, Michigan State
University
Spin Glass Models of Cancer Cells

Organizers

Carlo Piermarocchi (carlo@pa.msu.edu) & Ruby Ghosh (ghosh@pa.msu.edu)
Interdisciplinary Physics

Alexandra Zevalkink (alexzev@msu.edu) & Sara Roccabianca (Roccabis@msu.edu)
Engineering

David Arnosti (arnosti@msu.edu), & George Mias (gmias@msu.edu) Quantitative
Biology/Gene Expression in Development & Disease

