



## Departmental Seminars

4:00 p.m., Elgin Room (E-Quad A224)

- February 1            **Soichiro Yamada**, Stanford University  
*Molecular Basis of Cell-Cell Adhesion*
- February 8            **Charles Schroeder**, Harvard University  
*Single Molecule Studies of DNA Replication and Polymer Physics*
- February 15           **Raj Chakrabarti**, Massachusetts Institute of Technology  
*Computational Sequence Optimization and Designability of Enzyme Active Sites*
- February 22           **Jackie Ying**, Institute of Bioengineering and Nanotechnology - Singapore  
*Nanostructure Processing of Advanced Biomaterials*
- March 1                **Sossina Haile**, California Institute of Technology  
*The Science and Technology of Oxyanion Based Superprotonic Conductors*
- March 8                **Jose Onuchic**, University of California at San Diego  
*The Energy Landscape for Folding and Function*
- March 15               **E. Terry Papoutsakis**, Northwestern University  
*Experimental and Computational Innovation and Quality Control in DNA-Microarray Analysis*
- March 29               **David Grier**, New York University  
*The Guiding Light: Assembling and Interrogating Colloidal Matter with Holographic Optical Traps*
- April 5                 **Douglas Clark**, University of California at Berkeley  
*Engineering in the (Bio)Material World: Overcoming the Natural Limitations of Biocatalysis*
- April 12                **Ralph Colby**, The Pennsylvania State University  
*Polyelectrolyte Solution Rheology*
- April 19                **Stacy L. Janak**, Princeton University  
*Scheduling of Multiproduct and Multipurpose Batch Plants: Modeling and Algorithmic Developments*
- April 26                **Vassily Hatzimanikatis**, Northwestern University  
*Systems Engineering Approaches for the Analysis and Design of Complex Metabolic Networks*
- May 3                  **Harel Weinstein**, Weill Medical College of Cornell University  
*From Molecular Mechanisms of Cell Signaling to Integrative Physiology: Will Engineering Approaches Work?*
- May 10                 **Melany Hunt**, California Institute of Technology  
*Granular Flows: Rheology and Booming Sand Dunes*
- May 17                 **Homme W. Hellinga**, Duke University Medical Center  
*Computational Protein Design: Theory, Experiments, Applications*
- May 24                 **H. Eugene Stanley**, Boston University  
*Puzzling Behavior of Supercooled and Glassy Water*

*Social Gathering & Refreshments, 3:30 p.m., Lapidus Lounge (E-Quad A214)*