

Fall 2003



# Complex Materials Seminars

3:30 pm, Refreshments

4:00 pm, Elgin Room, A224 E-Quad

- September 15**    **Stanislav Y. Shvartsman**, Princeton University  
*Cell Communication in Epithelial Layers*
- September 22**    **John F. Brady**, California Institute of Technology  
*The Micromechanics of Complex Fluids: From Chocolate to Nuts*  
(Richard H. Wilhelm Lecture, A217 E-Quad)
- September 29**    **William B. Russel**, Princeton University  
*Micropatterning of Thin Polymer Films through Instabilities*
- October 6**        **Joanna Aizenberg**, Bell Laboratories, Lucent Technologies  
*Large Micropatterned Single Crystals*
- October 13**      **Pulickel M. Ajayan**, Rensselaer Polytechnic Institute  
*Organized Carbon Nanotube Architectures for Applications*
- October 20**      **Athanassios Z. Panagiotopoulos**, Princeton University  
*Phase Transitions in Colloid/Polymer Systems in Bulk and Thin Films*
- November 3**     **George M. Whitesides**, Harvard University  
*Electrostatic Self-assembly of Macroscopic Crystals*
- November 10**    **J. Herbert Waite**, University of California, Santa Barbara  
*Mussel Beards and Worm Fangs: The Mechanical and Structural Intricacies of Complex Marine Biomaterials*
- November 24**    **Jeffrey D. Carbeck**, Princeton University  
*Self-Regulating Materials*
- December 1**     **Wanwipa Siriwatwechakul**, Princeton University  
*Flow of Viscoelastic Surfactant Solutions through Porous Media*
- December 8**     **Ben O'Shaughnessy**, Columbia University  
*Soft Materials and Nanoparticle Organization*
- January 5**        **Rodney S. Ruoff**, Northwestern University  
*Mechanics of Nanostructures and Nanocomposites*
- January 12**      **A. Paul Alivisatos**, University of California, Berkeley  
*Electrical and Optical Studies of Discrete Nanocrystal Assemblies*
- January 19**      **Franziska Gröhn**, Max Planck Institute for Polymer Research  
Mainz, Germany *Electrostatic Self-Assembly*