Princeton University

Spring 2004

Complex Materials Seminars

3:30 pm, Refreshments

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

February 2	**Roberto Car**, Princeton University *Modeling Materials from First-Principles*
February 9	**Sarah C. Heilshorn**, California Institute of Technology *Protein Engineering: A Novel Approach to Creating New Biomaterials*
February 16	**Jianzhong Wu**, University of California, Riverside *Statistical Thermodynamics of Soft Materials*
February 23	**Rodney S. Ruoff**, Northwestern University *Mechanics of Nanostructures and Nanocomposites*
March 1	**Eva M. Harth**, Xenoport, Inc. *Spherical Architectures in the Approach of Nanotechnology: Fullerenes, Dendrimers, and the Synthesis of Nanoparticles from the "bottom-up"*
March 8	**Orlin D. Velev**, North Carolina State University *On-Chip Dielectrophoretic Manipulation of Nanoparticles, Microparticles and Droplets*
March 22	**Raymond G. Teller**, Argonne National Laboratory *Condensed Matter Research at the Intense Pulsed Neutron Source*
March 29	**William A. Ducker**, Virginia Polytechnic University *Forces Acting on Adsorbed Molecules: Proximity and Chiral Effects*
April 5	**Jean H. Prevost**, Princeton University *Designing Optimized Material Structures*
April 12	**Richard Superfine**, University of North Carolina, Chapel Hill *Actuating Surfaces: From Biology to Materials*
April 19	**Pablo G. Debenedetti**, Princeton University *Recent Results on the Theory of Glasses: Energy Landscape Statistics*
April 26	**Alexander A. Golovin**, Northwestern University *Self-Organization of Regular Nanoporous Structures During Anodization of Aluminum*
May 3	**3:30pm - William D. Ristenpart**, Princeton University *Electric-Field Induced Assembly of Colloidal Particles*
	4:15pm - Cecilia A. Petit, Princeton University *Micropatterning Stretched and Aligned DNA for Sequence-Specific Nanolithography*
May 10	**Mikhail A. Anisimov**, University of Maryland *Mesoscopic and Nanoscale Thermodynamics: Fundamentals for Emerging Technologies*
May 17	**3:30pm - Shilpa H. Bhansali**, Princeton University *Resonator Sensitivity Enhancement with L_3-Templated Nanostructured Silica Coatings*
	4:15pm - Christopher R. Martin, Princeton University *Development of Lead Zirconate Titanate Cantilevers on the Micrometer Length Scale*