



Fall 2007/08

Departmental Seminars

3:30 pm, Refreshments, A214 E-Quad

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

- September 19 **Joel P. Schneider**, University of Delaware
De Novo Design of Peptide-Based Hydrogels for Therapeutic Applications
- September 26 **John A. Pojman**, University of Southern Mississippi
Frontal Polymerization for Making New Materials and Studying Nonlinear Dynamics
- October 3 **Juan J. de Pablo**, University of Wisconsin - Madison
Driven Assembly of Macromolecules, and its Application for Nanofabrication
- October 10 **Lynden A. Archer**, Cornell University
Electrophoretic Dynamics and Bending Properties of Polyelectrolytes
- October 17 **John M. Torkelson**, Northwestern University
Dramatic Effects of Nanoscale Confinement on the Glass Transition, Physical Aging, Translational Diffusion, and Dynamics in Polymer Films and Nanocomposites
- October 24 **Hang Lu**, The Georgia Institute of Technology
Probing Worms' Brain and Behavior with Microfluidics
- November 14 **Giulia A. Galli**, University of California - Davis
Water at Interfaces: Insight from ab-initio Simulations
- November 28 **Arthur D. Lander**, University of California - Irvine
Control Strategies in the Regulation of Pattern and Size in Animal Development
- December 5 **Sandor Vajda**, Boston University
New Optimization Algorithms for Protein-protein Docking
- December 12 **Huimin Zhao**, University of Illinois at Urbana-Champaign
Industrial Biology: Surfing the Third Wave of Biotechnology
- January 9 **Mark A. Barteau**, University of Delaware
Moving Catalysis from Analysis to Design: Progress in Olefin Epoxidation
- January 16 **Peter Vukusic**, University of Exeter
Evolutionary Photonics: Natural Design Protocols for Manipulating Light and Colour
- January 23 **Phillip B. Messersmith**, Northwestern University
Adhesive Strategies in Nature: Mussels, Geckos, and their Synthetic Polymer Mimics