



## Departmental Seminars

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

September 20      **K. Dane Wittrup**, Massachusetts Institute of Technology  
*Tumor Targeting Theory and Experiment*

September 27      **Osman Basaran**, Purdue University  
*Drop Breakup and Analysis of Pinch-Off Singularities*

### Richard H. Wilhelm Lecture Series

**Frank Bates**  
**University of Minnesota**

**4:00 pm, Friend Center FC113**

October 2              *Block Copolymers: Designer Materials at Commodity Prices*  
October 4              *Macromolecular Surfactants*

October 11            **Theodore Randolph**, University of Colorado at Boulder  
*Protein Refolding Under Pressure*

October 18            **Emil Jacobs**, ExxonMobil Research & Engineering Company  
*The Outlook for Energy - A View to 2030*

October 25            **Thomas Zawodzinski**, Case Western Reserve University  
*Materials for PEM Fuel Cells: Transport in Complex Media*

November 8           **David Pine**, New York University  
*Reciprocating Balls and the Chaotic Transition to Irreversibility*

November 29          **Michael Tsapatsis**, University of Minnesota  
*Molecular Sieve Thin Film Technology: Current Status and Research Opportunities*

December 6           **Paula Hammond**, Massachusetts Institute of Technology  
*Electrostatics Driven Assembly of Hybrid Functional Thin Films*

December 13          **Jan Vermant**, Katholieke Universiteit Leuven  
*Aggregation in Two Dimensional Suspensions: Control over the Structure and Interfacial Rheology*

January 10            **Dennis Discher**, University of Pennsylvania  
*Soft Materials in Biology: From Virus Mimics to Stem Cell Fate Control*