

10th Tiger-Hen-Hawk Rheology Symposium



January 27, 2007
Bowen Hall
Princeton University



9:00 AM SIGN-IN (coffee and donuts)

- 9:25 Opening Remarks
- 9:30 Dennis Kalman (Wagner) "Flow-USANS experiments on shear thickening fluids"
- 9:48 Bill Kohler (McHugh) "The role of flow-enhanced crystallization in the dynamics of fiber spinning and film blowing"
- 10:06 Andy Marencic (Register) "Limitations of order in sphere-forming block copolymer thin films aligned under shear"
- 10:24 Travis Larsen (Furst) "Sequence-dependent gelation kinetics of β -hairpin oligopeptide hydrogels"
- 10:42 COFFEE BREAK/POSTERS**
- 11:10 *Plenary Lecture by Jan Vermant "Interfacial rheometry: rheology at the edge"*
- 11:50 Rohan Hule (Pochan) "Effect of strand symmetry on the nanostructure and material properties in β -hairpin peptide hydrogels"

12:10 LUNCH

- 1:30 PM *Plenary Lecture by Christopher W. Macosko "Using rheology to evaluate the dispersion of clay and graphite nanoplatelets in polymer melts"*
- 2:10 Robert C. Scogna (Register) "Deformation mechanisms in ethylene-methacrylic acid copolymers elucidated by time-temperature superposition of the yield stress"
- 2:28 Monica Branco (Schneider) "Correlation between gel structural properties and macromolecule diffusion in self assembling peptide hydrogels"
- 2:46 Bulent Ozbas (Prud'homme, Aksay) "Functional graphene sheet (FGS) - rubber nanocomposites"
- 3:04 COFFEE BREAK/POSTERS**
- 3:30 Gaurab Samantha (Beris) "K-L analysis of coherent structures in turbulent viscoelastic channel flow"
- 3:48 Jack Tinsley (Prud'homme) "Polymers for the control of wax deposition in flow"
- 4:06 Paula Vasquez (Cook) "A scission model for wormlike micellar solutions: Inhomogeneities in shear and step strain"
- 4:24 Ning Wu (Russel) "Self assembly of thin polymer films under electric field"
- 4:42 Decheng Ma (McHugh) "The interplay of phase inversion, membrane formation, and drug release characteristics in controlled release drug delivery systems"
- 5:00 Marian Gindy (Prud'homme) "Nanoparticle self-assembly for imaging and drug delivery"

5:18 Closing Remarks



Directions and Maps: Bowen Hall, 70 Prospect Avenue, 08540

<http://www.mapquest.com/maps/map.adp?country=US&zipcode=08544>
<http://www.princeton.edu/~pumap/> (parking at Parking Garage (Prospect Avenue) on map pull down menu)
<http://www.princeton.edu/main/visiting/travel/driving/>

Contact:

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Coffee and continental breakfast will be provided prior to the starting time. Lunch will be provided. These are made available by the generous support of Anton Paar and TA Instruments.