

# 11<sup>th</sup> TIGER-HEN-HAWK Rheology Symposium\*

April 19, 2008  
University of Delaware  
106 CCM

## Program

8:00 – 9:00 Breakfast

9:00 – 9:10 Norm Wagner, *Welcoming Remarks*

9:10 – 9:30 (UD) Matt Helgeson (Kaler-Wagner) *A microstructural understanding of shear banding in wormlike micellar solutions*

9:30 – 9:50 (LU) Changbao Gao (Gilchrist) *Shear-induced migration in microchannel flows*

9:50 – 10:10 (UD) Lin Zhou (Cook) *Modeling the inhomogeneous response of steady and transient flows of entangled solutions*

10:10 -10:30 (UD) Amanda Lim *Exploring the high rate response of a shear thickening fluid using the split-Hopkinson pressure bar technique*

10:30 – 11:00 Coffee Break & Poster Session

11:00 – 11:20 (LU) Fang Xu (McHugh) *Modeling of film blowing with flow-enhanced crystallization*

11:20 – 11:40 (PU) Andrew Marencic (Register-Chaikin) *Sphere-forming and cylinder forming block copolymer thin films aligned under double shear*

11:40 – 12:00 (LU) Constantine Khripin (Jagota) *Aqueous processing of DNA-dispersed carbon nanotubes*

12:00 – 12:20 (UD) P. Vasquez (Furst) *Magnetorheological fluids in microgravity*

12:30 – 1:45 Luncheon (Colburn Lab)

**1:50 – 2:50 Plenary Lecture by Ralph Colby “Polyelectrolyte Solution Rheology”**

2:50 – 3:10 (PU) Jacob Tarver (Loo) *An investigation of electrochromism in water-dispersible polyaniline*

3:10 – 3:40 Coffee Break & Poster Session

3:40 – 4:00 (UD) Ronak Rughani (Schneider) *Modulating hydrogel rigidity via photopolymerization of self-assembled  $\beta$ -hairpin peptide hydrogels*

4:00 – 4:20 (PU) Varun Kumar (Prud'homme) *Thermodynamic limits on drug loading in nanoparticle cores*

4:20 – 4:40 (UD) Tuna Yucel (Pochan) *Early-Stages of  $\beta$ -hairpin hydrogelation*

\*Sponsored by: Anton Paar and TA Instruments.