



The Society of Rheology 78th Annual Meeting Portland, Maine

Meeting Schedule

Monday, October 9, 2006

8:30 P. Janmey (PL1)
9:20 Coffee
9:45 SC1 EP1 BS1 FM1
10:10 SC2 EP2 BS2 FM2
10:35 SC3 EP3 BS3 FM3
11:00 SC4 EP4 BS4 FM4
11:25 SC5 EP5 BS5 FM5
11:50 Society Luncheon
1:55 SC6 EP6 BS6 FM6
2:20 SC7 EP7 BS7 FM7
2:45 SC8 EP8 BS8 FM8
3:10 SC9 EP9 BS9 FM9
3:35 SC10 EP10 BS10 FM10
4:00 Coffee
4:25 SC11 EP11 BS11 FM11
4:50 SC12 EP12 BS12 FM12
5:15 SC13 EP13 BS13 FM13
5:40 SC14 EP14 BS14 FM14
6:05 SC15 EP15 BS15 FM15
6:30 End
7:00 Society Reception

Tuesday, October 10, 2006

8:30 R. C. Armstrong (PL2)
9:20 Coffee
9:45 SC16 EP16 MR1 FM16 PP1
10:10 SC17 EP17 MR2 FM17 PP2
10:35 SC18 EP18 MR3 FM18 PP3
11:00 SC19 EP19 MR4 FM19 PP4
11:25 SC20 EP20 MR5 FM20 PP5
11:50 Lunch
1:30 SC21 EP21 MR6 FM21 PP6
1:55 SC22 EP22 MR7 FM22 PP7
2:20 SC23 EP23 MR8 FM23 PP8
2:45 SC24 EP24 MR9 FM24 PP9
3:10 SC25 EP25 MR10 FM25 PP10
3:35 Coffee
4:00 SC26 EP26 MF1 VS1 PP11
4:25 SC27 EP27 MF2 VS2 PP12
4:50 SC28 EP28 MF3 VS3 PP13
5:15 SC29 EP29 MF4 VS4 PP14
5:40 SC30 EP30 MF5 VS5 PP15
6:05 End
6:10 Business Meeting
7:00 Awards Reception
8:00 Awards Banquet

Wednesday, October 11, 2006

8:30 H. C. Öttinger (PL3)
9:20 Coffee
9:45 BE1 PS1 MF6 VS6
10:10 BE2 PS1 MF7 VS7
10:35 BE3 PS2 MF8 VS8
11:00 BE4 PS3 MF9 VS9
11:25 BE5 PS4 MF10 VS10
11:50 Lunch
1:30 BE6 PS5 MF11 GP1
1:55 BE7 PS6 MF12 GP2
2:20 BE8 PS7 MF13 GP3
2:45 BE9 PS8 MF14 GP4
3:10 BE10 PS9 MF15 GP5
3:35 Coffee
4:00 BE11 PS10 MF16 GP6
4:25 BE12 PS11 MF17 GP7
4:50 BE13 PS12 MF18 GP8
5:15 BE14 PS13 MF19 GP9
5:40 BE15 PS14 MF20 GP10
6:05 End
6:10 Poster Session & Reception

Thursday, October 12, 2006

8:05 BE16 PS15 MF21 GP11
8:30 BE17 MF22 GP12
8:55 BE18 PS17 MF23 GP13
9:20 BE19 PS18 MF24 GP14
9:45 BE20 PS19 MF25 GP15
10:10 Coffee
10:35 BE21 PS20 MF26 GP16
11:00 BE22 PS21 MF27 GP17
11:25 BE23 PS22 MF28 GP18
11:50 BE24 PS23 MF29 GP19
12:15 BE25 PS24 MF30 GP20
12:40 End

Session Codes

BE = Blends, Emulsions and Multiphase Flows

BS = Biomaterials, Biological Systems and Self-assembly

EP = Rheology and Structure of Entangled Polymer Systems

FM = Non-Newtonian Fluid Mechanics, Instabilities and Turbulence

GP = General Papers

MF = Microfluidics, Confined Systems and Thin Films

MR = Microrheology

PL = Plenary Lectures

PP = Paper, Pulp and Industrial Processes

PS = Polymer Solution Rheology: Molecular-scale Modeling and Experiments

SC = Suspensions, Colloids and Granular Materials

VS = Viscoelasticity of Solids, Thixotropy and Glasses

Monday, October 9

Morning

8:30

9:20

Vermont

Suspensions, Colloids & Granular Matls.

- 9:45 **SC1.** Rheological behavior of binary blends of micro- and nanoscale colloidal dispersions.
D. A. Shcherbakov and W. B. Russel

- 10:10 **SC2.** Nanoparticles diffuse faster than predicted by the Stokes-Einstein relation in polymer melts.
A. Tuteja, M. E. Mackay, S. Narayanan, S. Asokan and M. S. Wong

- 10:35 **SC3.** Graphene-rubber nanocomposites.
B. Ozbas, M. J. McAllister, D. H. Adamson, R. A. Register, I. A. Aksay and R. Prud'homme

- 11:00 **SC4.** Rheological properties of different nanocomposites based on polyamide-6.
M. Sepehr, L. A. Utracki and P. Sammut

- 11:25 **SC5.** Effect of flow history on structure build-up and breakdown of polymer/clay nanocomposite model systems.
C. Mobuchon, P. J. Carreau and M.-C. Heuzey

11:50

Massachusetts

Rheo. and Struct. of Entang. Polym. Sys.

- EP1.** Direct rheological observation of monomer density reequilibration for entangled polymer melts.
C.-Y. Liu, R. Keunings and C. Baily

- EP2.** Viscoelastic relaxation in cyclic polymers and cyclic-linear polymer blends.
D. Vlassopoulos, M. Kapnistos, J. Roovers and T. Chang

- EP3.** Constraint release in star/star blends and partial-DTD in monodisperse star systems.
H. Watanabe

- EP4.** A general methodology to predict the linear rheology of branched polymers.
E. van Ruybenbeke, C. Baily, R. Keunings and D. Vlassopoulos

- EP5.** Hierarchical relaxation Of asymmetric star polymer melts.
Q. Zhou and R. G. Larson

SOCIETY LUNCHEON Casco Bay Exhibit Hall

Connecticut

Biomaterials, Biol. Sys. & Self-assembly

- BS1.** Macromolecular assembly based on inclusion associations between beta-cyclodextrin and adamantly grafts.
X. Guo, L. Li, L. Fu, R. Prud'homme, B. May and S. Lincoln

- BS2.** Shear orientation of nanoparticle arrays templated by soft-crystals.
D. C. Pozzo and L. M. Walker

- BS3.** Contrasting effects of temperature on the rheology of normal and reverse wormlike micelles.
S.-H. Tung, Y.-E. Huang and S. Raghavan

- BS4.** Effect of pressure and shear on the phase diagram of PLGA-dioxane-water solutions.
S. A. Lim and J. J. Cooper-White

- BS5.** Effect of solvents on the dynamics of collagen solutions and gels.
E. Pashkovski, L. Cipelletti and A. Lips

Rhode Island

Non-Newt. Fluid Mech., Instab. & Turb.

- FM1.** A study on the rheology effects in viscoelastic turbulent channel flows based on DNS.
K. D. Housiadas and A. N. Beris

- FM2.** A RANS model for turbulent drag reduction by polymer injection and comparison to DNS.
E. S. Shaqfeh, G. Iaccarino and M. Shin

- FM3.** Dynamic K-L analysis of coherent structures based on DNS of turbulent viscoelastic flows.
G. Samanta, G. Oxberry, R. A. Handler, A. N. Beris and K. D. Housiadas

- FM4.** Rheological analysis of exact coherent structures in viscoelastic shear flows.
A. Roy, A. Morozov, W. van Saarloos and R. G. Larson

- FM5.** Viscoelastic nonlinear traveling waves and drag reduction in plane Poiseuille flow.
W. Li and M. D. Graham

Vermont

Suspensions, Colloids & Granular Matls.

- 1:55 **SC6.** Simulations of particle suspensions in viscoelastic fluids.
A. Malidi and O. G. Harlen

- 2:20 **SC7.** Motion of a bead through a yield stress and/or thixotropic fluid.
H. Tabuteau, P. Coussot and J. de Bruyn

- 2:45 **SC8.** Sedimentation of two vertical spheres in a xanthan solution.
R. J. Phillips, L. Talini and E. Verneuil

Massachusetts

Rheo. and Struct. of Entang. Polym. Sys.

- EP6.** Primitive-path-length distribution predictions by the CUBS slip-link model.
J. D. Schieber and R. Khaliullin

- EP7.** Tubes versus slip-springs: A detailed comparison.
J. Ramirez and A. E. Likhtman

- EP8.** Identifying topological constraints using the bond-fluctuation model.
S. Shanbhag and R. G. Larson

Connecticut

Biomaterials, Biol. Sys. & Self-assembly

- BS6.** Sequence-dependent kinetics of β -hairpin oligopeptide hydrogels.
T. H. Larsen and E. M. Furst

- BS7.** Correlation between gel structural properties and macromolecule diffusion in self assembling peptide hydrogels.
M. C. Branco, N. J. Wagner, D. J. Pochan and J. P. Schneider

- BS8.** Basement membrane protein gels: Architecture and gelation kinetics.
H. I. Hadisaputra, Y. Park, A. J. O'Connor and J. J. Cooper-White

Rhode Island

Non-Newt. Fluid Mech., Instab. & Turb.

- FM6.** The axisymmetric instabilities of electrically-driven viscoelastic jets.
C. P. Carroll and Y. L. Joo

- FM7.** Pattern formation in viscoelastic Taylor-Couette flow: Ribbons, oscillatory strips, disordered states and diwhirls.
D. Thomas, B. Khomami and R. Sureshkumar

- FM8.** 3-D instabilities, rheology effects and the influence of the surrounding air on the film blowing process.
K. D. Housiadas and J. A. Tsamopoulos

3:10	SC9. Rheology of a dilute suspension of spheres in a viscoelastic liquid. <i>P. L. Maffettone, G. D'Avino and F. Greco</i>	EP9. Probe rheology: A simple method to separate the contributions of constraint release and contour length fluctuations to non-reptation scalings. <i>C.-Y. Liu, R. Keunings and C. Baily</i>	BS9. Rheological fingerprinting of pedal mucus from terrestrial gastropods (snails and slugs) using large amplitude oscillatory shear (LAOS) experiments. <i>R. Ewoldt, A. E. Hosoi and G. H. McKinley</i>	FM9. Low Reynolds number unstable flows of complex fluids with pH dependent rheology: Experimental evidence, stability analysis, applications. <i>T. I. Burghelea, I. A. Frigaard, J. J. Feng and M. . Martinez</i>
3:35	SC10. A fundamental study on the structure of laponite-PEO dispersions using rheology, birefringence and SAXS. <i>H. A. Baghdadi and S. R. Bhatia</i>	EP10. Origins of stress in polymer melts and the implications for single-chain models. <i>A. E. Likhtman and S. K. Sukumaran</i>	BS10. Forisome: A smart plant protein inside a phloem system. <i>S. Warmann, A. Shen and W. Pickard</i>	FM10. Viscoelastic fluid flows simulations with a generalized log-conformation formulation: A simple and effective approach. <i>O. M. Coronado, D. Arora, M. Behr and M. Pasquali</i>
4:00				
4:25	SC11. The bulk viscosity of suspensions. <i>J. F. Brady and M. Swaroop</i>	EP11. Onset of chain stretch in a highly entangled polyisoprene melt observed using shear measurements and several extensional techniques. <i>J. K. Nielsen, O. Hassager and G. H. McKinley</i>	BS11. Nanoparticle reinforced associative network hydrogels of PLA-PEO-PLA triblock copolymers. <i>S. K. Agrawal, N. Sanabria-DeLong, G. N. Tew and S. R. Bhatia</i>	FM11. Discontinuous Galerkin methods for simulating viscoelastic flow. <i>S. Sun</i>
4:50	SC12. Multiscale modeling of electro- and magnetorheological suspensions. <i>D. Kittipoomwong, D. Klingenberg, Y. Yurkovetsky and J. Morris</i>	EP12. Shear and elongational behavior in fast flows of monodisperse polymer melts with a wide range of molecular weights. <i>D. Auhl, J. Ramirez, A. E. Likhtman, T. C. McLeish, P. Chambon and C. M. Fernyhough</i>	BS12. Modeling and structure-property relations in tissue engineered collagen scaffolds. <i>J. Ma, J. Larague and J. W. Bender</i>	FM12. Rheology and fracture (breakup) of liquids. <i>V. M. Entov and A. N. Rozhkov</i>
5:15	SC13. The dynamics of rodlike particles under sedimentation and induced-charge electrophoresis. <i>D. Saintillan, E. S. Shaqfeh and E. Darve</i>	EP13. Rheological behavior of polymer melts in equibiaxial elongational flow using a modified lubricated squeezing flow technique. <i>D. C. Venerus, T. Medina-Guadarrama and T. Y. Shiu</i>	BS13. Viscoelastic properties of a biodegradable, acellular xenogenic scaffold for the bioengineering of vocal fold tissues. <i>R. W. Chan and M. Rodriguez</i>	FM13. Numerical simulation of non-dilute suspensions in viscoelastic fluids in an elongational flow. <i>G. D'Avino, P. L. Maffettone, M. A. Hulszen and G. W. Peters</i>
5:40	SC14. Oscillatory shear of suspensions of noncolloidal particles. <i>J. M. Bricker and J. E. Butler</i>	EP14. Comparison of the elongational behavior of various polyolefins in uniaxial and biaxial flows. <i>F. J. Stadler, A. Nishioka, J. Stange and H. Müinstedt</i>	BS14. The mechanical behaviour of brain tissue: Large strain response and constitutive modeling. <i>G. W. Peters, M. Hrapko, H. A. van Dommelen and J. S. Wismans</i>	FM14. Linear stability analysis of viscoelastic Couette flow using finite element method. <i>J. V. Valerio and M. S. Carvalho</i>
6:05	SC15. PME Stokesian dynamics simulations of dense colloidal suspensions with attractive forces: Microstructure of liquids and gels. <i>M. D. Bybee and J. L. Higdon</i>	EP15. Elongational viscosity of multiarm (Pom-Pom) polystyrene. <i>J. K. Nielsen, H. K. Rasmussen, K. Almdal and O. Hassager</i>	BS15. Swarming of bacteria: Socio-microbiology or surface rheology? <i>J. Vermand, S. Reynaert, R. Daniels, J. Michiels and J. Fransaer</i>	FM15. Viscoelastic stagnation point flow in a wake. <i>M. Renardy</i>
6:30				
7:00				

END

SOCIETY RECEPTION Portland Museum of Art

Tuesday, October 10

Morning

8:30

9:20

Vermont

Suspensions, Colloids & Granular Mtls.

- SC16.** Jamming of dense suspensions of uniform non-spherical colloids.
R. J. Larsen, J.-W. Kim and D. Weitz

- SC17.** Rheology and microstructure of shear thickening colloidal dispersions by flow-USANS. *D. Kalman, C. Nam and N. J. Wagner*

- SC18.** A micromechanical approach to the rheological behavior of a suspension of particles in a Herschel-Bulkley fluid. *X. Chateau and K. Luu Trung*

- SC19.** Flows of concentrated suspensions in symmetric and asymmetric bifurcations. *C. Xi and N. C. Shapley*

- SC20.** Local measurements of the constitutive law of a concentrated noncolloidal suspension through MRI. *G. Ovarlez, F. Bertrand and S. Rodts*

11:50

PL2. Rheology and energy. *R. C. Armstrong* Vermont

COFFEE

Massachusetts

Rheo. and Struct. of Entang. Polym. Sys.

- EP16.** Thermodynamics of non-isothermal polymer flows: Experiment, theory, and simulation. *T. C. Ionescu, B. J. Edwards, D. J. Keffer and V. Mavrantzas*

- EP17.** Large strain requirements for strain induced crystallization. *D. Arora and H. H. Winter*

- EP18.** Flow-induced crystallization of polybutene-1: From the low shear rate region up to processing rates. *J. Baert, P. Van Puyvelde and F. Langouche*

- EP19.** A study of the flow induced crystallization behavior of polyethylene in simple shear and high-rate uniaxial extension. *M. Sentmanat, D. Omar and S. G. Hatzikiriakos*

- EP20.** A new equation to describe melt shear-thinning behavior. *J. P. Ibar*

Connecticut

Microrheology

- MR1.** Active and nonlinear microrheology in the large-probe limit: Direct vs. bulk effects. *T. M. Squires*

- MR2.** Experimental two-particle microrheology of quasi 2-D viscous systems and thin films. *V. Prasad, S. A. Koehler and E. R. Weeks*

- MR3.** Laser tweezer microrheology of colloidal dispersions and gels. *E. M. Furst, M. H. Lee and A. Meyer*

- MR4.** Non-Brownian microrheology of a fluid-gel interface. *E. K. Hobbie, S. Lin-Gibson and S. Kumar*

- MR5.** In-situ monitoring of mechanical properties during photopolymerization with particle tracking microrheology. *R. P. Slopek and V. Breedveld*

LUNCH

Rhode Island

Non-Newt. Fluid Mech., Instab. & Turb.

- FM16.** Film drainage between micron size droplet and a solid substrate. *B. Steinhaus, P. Spicer and A. Shen*

- FM17.** Compliance effects in torsional flow of viscoelastic fluids. *C. S. Dutcher and D. C. Venerus*

- FM18.** Nonlinear dynamics and stability of film blowing process accompanied by flow-induced crystallization. *D. M. Shin, J. S. Lee, H. W. Jung and J. C. Hyun*

- FM19.** Rheological characterization and flow simulations of PTFE paste extrusion. *P. D. Patil, I. Ochoa, S. G. Hatzikiriakos and J. J. Feng*

- FM20.** A molecular approach to fully eradicate sharkskin extrudate distortions in entangled polyethylene. *J. F. Vega, M. T. Expósito and J. Martínez-Salazar*

Cumberland/Kennebec

Paper, Pulp & Industrial Processes

- PP1.** Effect of strongly repulsive particle interactions on the rheology of concentrated silica suspensions. *S. Savarmand, P. J. Carreau, F. Bertrand and D.-E. Vidal*

- PP2.** Rheological aspects of paper coatings. *J. Husband and R. Iyer*

- PP3.** Simulating and improving the application behavior of paper coatings by rheological test methods. *J. Laeuger and S. Hietala*

- PP4.** The influence of dispersant chemistry on calcium carbonate suspension rheology. *G. Gagnon, D. J. Neivandt and D. W. Bousfield*

- PP5.** Effects of fiber shape on fiber settling dynamics. *E. Tozzi, D. Klingenbergs, T. Scott and D. Lahey*

Vermont

Suspensions, Colloids & Granular Mtls.

- SC21.** A thermodynamically consistent model for the thixotropic rheological behavior of concentrated colloidal star polymer solutions. *A. N. Beris and D. Vlassopoulos*

Massachusetts

Rheo. and Struct. of Entang. Polym. Sys.

- EP21.** Flow instabilities and constitutive relation in entangled polymer solutions studied by particle tracking velocity. *Y. T. Hu and A. Lips*

Connecticut

Microrheology

- MR6.** Rheology and microrheology of microstructured gellan gum systems. *M. Caggioni, P. Spicer and D. Weitz*

Rhode Island

Non-Newt. Fluid Mech., Instab. & Turb.

- FM21.** Rupture of molten polymers. *J. M. Dealy*

Cumberland/Kennebec

Paper, Pulp & Industrial Processes

- PP6.** Rheological tests and process model for frothed carpet compounds. *N. Triantafillopoulos, B. Schreiner and D. W. Bousfield*

Afternoon

1:55	SC22. Yielding, strain softening and shear thinning in dense colloidal suspensions, gels and glasses. <i>V. Kobelev and K. S. Schweizer</i>	EP22. A first determination of velocity profile of entangled polymer solutions in sliding plate rheometer. <i>P. E. Boukany and S.-Q. Wang</i>	MR7. Dynamics of individual single-walled carbon nanotubes in water by real-time visualization. <i>N. Fakhri, D. A. Tsyboulski, R. Duggal, R. B. Weisman and M. Pasquali</i>	FM22. The effect of pre-shear on the extensional rheology of wormlike micelle solutions. <i>A. G. Bhardwaj, D. Richter and J. P. Rothstein</i>	PP7. Rheological behavior of microbubble suspension in food application. <i>Y. Shen, M. L. Longo and R. L. Powell</i>
2:20	SC23. Rheology of soft particle pastes: Macroscopic behavior and microscopic origins. <i>R. T. Bonnecaze and J. R. Seth</i>	EP23. Simulation of apparent wall slip in entangled polymer melts using a full-chain stochastic tube model. <i>F. Xu, M. M. Denn and J. D. Schieber</i>	MR8. Continuum-microscopic computation of constitutive laws for viscoelastic flow. <i>S. M. Mitran</i>	FM23. Effects of boundary conditions on shear banding in different flow geometries. <i>J. M. Adams, S. M. Fielding and P. D. Olmsted</i>	PP8. Connecting linear to non-linear rheology of wheat flour doughs. <i>T. S. Ng and G. H. McKinley</i>
2:45	SC24. Soft polymer particle suspensions with controlled particle surface morphology. <i>G. H. Ling and M. T. Shaw</i>	EP24. Nonlinear behavior in large amplitude oscillatory shear of entangled polymers. <i>S. S. Ravindranath and S.-Q. Wang</i>	MR9. Autoregressive (direct) and maximum likelihood (inverse) methods for microrheology simulations and experiments. <i>L. Yao, M. G. Forest, T. Elston and J. Fricks</i>	FM24. Transient evolution of the shear-banded flow of wormlike micelles. <i>E. Miller and J. P. Rothstein</i>	PP9. Rheology of mozzarella cheese: Comparison of results from four different rheometers. <i>E. B. Muliawan and S. G. Hatzikiriakos</i>
3:10	SC25. Anomalous temperature behavior of colloidal silica gels in low-MW polyethers. <i>A. M. Sanchez and S. A. Khan</i>	EP25. Secondary stress overshoot of polymer solution with bimodal molecular weight distribution in strong shear flows. <i>H. Qi, M. Islam and L. Archer</i>	MR10. One- and two-particle microrheology of yield-stress fluids. <i>F. K. Oppong and J. de Bruyn</i>	FM25. A numerical study of dilute wormlike micellar solutions in Taylor-Couette flow. <i>L. F. Rossi</i>	PP10. The use of intrinsic viscosity measurements to investigate molecular volume and surfactant interactions in heavy oils. <i>G. Robinson</i>
3:35					
4:00	SC26. Transitions in a vibrated/stirred granular flow. <i>J. F. Gilchrist, K. J. Ford and H. S. Caram</i>	EP26. Fast shear of binary blends of polymer melts: New constitutive models and experimental results.. <i>K. Jagannathan, D. Auhl, D. J. Read, A. E. Likhtman, R. S. Graham, J. Ramirez and T. C. McLeish</i>	MF1. Microscale flows of wormlike micellar solutions in shear and elongation. <i>N. J. Kim, C. J. Pipe, K. H. Ahn and G. H. McKinley</i>	VS1. Microscopic theory of the nonlinear dynamical properties of polymer glasses. <i>K. Chen and K. Schweizer</i>	PP11. On tensile testing of concentrated suspensions. <i>A. N. Alexandrou, A. V. Bazilevsky, V. M. Entov, K. Isaev and A. N. Rozhkov</i>
4:25	SC27. Cage dynamics and dynamical heterogeneity in uniformly heated granular media. <i>R. A. Ingale, P. M. Reis, G. Marty and M. D. Shattuck</i>	EP27. Rheology and mesoscale network structure of entangled polystyrene-organoclay solutions. <i>J. Li, J. M. Fitz-Gerald and J. P. Oberhauser</i>	MF2. Effect of focal conic defects in flow of smectic-A liquid crystals in a microchannel. <i>S. Shojaei-Zadeh and S. L. Anna</i>	VS2. Ubiquity of soft glassy dynamics in polypropylene-clay nanocomposites. <i>M. A. Treece and J. P. Oberhauser</i>	PP12. Effects of process conditions on dynamics and stability in 2-D film casting process. <i>H. W. Jung, D. M. Shin, J. H. Yun, J. S. Lee and J. C. Hyun</i>
4:50	SC28. Mean-field theory of glass transitions. <i>M. Tokuyama</i>	EP28. Rheology of randomly branched poly-vinylidene fluoride. <i>N. Mekhilef and L. Hedhli</i>	MF3. The transient flow behaviour of worm-like surfactant solutions undergoing a planar extension in micro-fabricated contraction geometries. <i>L. E. Rodd and J. J. Cooper-White</i>	VS3. Aging and solid or liquid behavior in pastes. <i>P. Coussot, G. Ovarlez and X. Chateau</i>	PP13. Biomodal and broad molecular weight distribution polypropylene and its effect on rheology and physical properties. <i>S. P. Westphal</i>
5:15	SC29. Thixotropy and yield stress behavior of drilling fluids. <i>J. Maxey</i>	EP29. Viscoelastic behavior of low molecular weight sulfonated polystyrene ionomers. <i>H. Zhao and R. A. Weiss</i>	MF4. Rheological properties of polymer melts in confined shear flow from dynamic Monte Carlo simulations. <i>J. R. Dorgan</i>	VS4. Nonlinear rheology and ageing of soft colloidal glasses. <i>G. Petekidis and D. Vlassopoulos</i>	PP14. Solid state viscometers for industrial process control and asset management.. <i>J. C. Andle</i>
5:40	SC30. A model for ageing dynamics in laponite suspensions. <i>Y. M. Joshi</i>	EP30. Dynamics of flexible ring polymers in obstacle environment. <i>B. Iyer, V. Juvekar and A. Lele</i>	MF5. Viscoelastic effects in a three-dimensional curved micro channel flow. <i>P. D. Anderson</i>	VS5. Linear viscoelasticity and non-linear transitions in a soft colloidal glass of star polymers. <i>M. E. Helgeson, N. J. Wagner and D. Vlassopoulos</i>	PP15. Case studies in practical, applied rheometry. <i>D. J. Moonay</i>
6:05					
6:10					
7:00					
8:00					

Wednesday, October 11

Morning

8:30

9:20

Vermont

Blends, Emulsions and Multiphase Flows

- 9:45 **BE1.** Large scale simulations of concentrated suspensions of elastic spheres: Ordering, shear thickening and jamming. *K. F. Higa and J. L. Higdon*
- 10:10 **BE2.** Optimization of polypropylene/polystyrene/clay blend nanocomposites: An on-line morphological and rheological study. *J. M. Maia, S. Cho, K. H. Han, A. V. Machado and J. A. Covas*
- 10:35 **BE3.** Negative normal stresses in polymer nanocomposites. *B. H. Cipriano, G. T. Cheng, T. Kashiwagi, J. F. Dougals and S. Raghavan*
- 11:00 **BE4.** Deformation, orientation, and alignment during shear and elongation of a polycarbonate/carbon nanotubes composite in the melt. *U. A. Hande and P. Pötschke*
- 11:25 **BE5.** Rheological properties of short fiber filled polypropylene in extensional flow. *J. Férec, J. R. R. Siffert, M.-C. Heuzey, P. J. Carreau and G. Ausias*

11:50

Massachusetts

Polym. Sol. Rheology: Modeling & Expts.

- PS1.** Experimental assessment of the Zimm model for dilute polymer solutions. *T. P. Lodge*
- PS1 continues**
- PS2.** Linear viscoelasticity of semidilute polymer solutions. *R. H. Colby*
- PS3.** Testing universal scaling of rheological properties in semi-dilute polymer solutions. *Y. Heo and R. G. Larson*
- PS4.** Ergodicity-breaking and glassy dynamics in the mixed flows of single polymer molecules. *E. S. Shaqfeh, V. Beck and B. Hoffman*

Connecticut

Microfluidics, Confined Systems & Films

- MF6.** Orientational dynamics of polydiacetylene monolayers. *A. Y. Wong, J. S. Samuel, A. J. Goffin, S. Swanson, J. C. Scott, B. Miller and G. G. Fuller*
- MF7.** Effects of temperature and chemical modification on polymer Langmuir films. *G. T. Gavranovic, M. M. Smith, A. Y. Wong and G. G. Fuller*
- MF8.** Thermoviscoelastic response of ultrathin polymer films: A nanobubble inflation method of determining the absolute creep compliance. *G. B. McKenna and P. A. O'Connell*
- MF9.** Evaporation induced self assembly and rheology change during sol-gel coating. *C. Lee and A. Shen*
- MF10.** Conformational anisotropy and glassy dynamics in polymer thin films. *F. T. Oyerokun, K. Schweizer, A. Cavallo and M. Mueller*

LUNCH

Rhode Island

Viscoelas. of Solids, Thixotr. & Glasses

- VS6.** The effect of applied strain during weathering exposure on the rheological properties of elastomers. *C. C. White, K. T. Tan, D. Benatti and D. Hunston*
- VS7.** A high strain rate tensile test instrument for rubber: Development and performance. *P. H. Mott, H. Schrader, J. A. Pathak, D. F. Roland and C. M. Roland*
- VS8.** Microstructure, rheological behavior and yield stress measurement of concentrated surfactants. *M. Y. Castro, C. W. Macosko, D. W. Giles and T. Moaddel*
- VS9.** Instrument compliance problems in linear viscoelasticity measurements. *C.-Y. Liu, R. Keunings, C. Bailly, M. L. Yao and A. J. Franck*
- VS10.** Shear waves generated by the motion of a sphere in a viscoelastic fluid. *H. Tabuteau, D. Sikorski and J. de Bruyn*

Afternoon

Vermont

Blends, Emulsions and Multiphase Flows

- 1:30 **BE6.** Generating monodisperse droplets in water/oil/surfactant systems using micro- to macro-scale co-flow cells. *M. R. Duxenneuner, J. J. Cooper-White, P. Fischer and E. J. Windhab*
- 1:55 **BE7.** Dynamics of colloidal consolidation process inside an emulsion droplet. *D. Wang, P. Spicer and A. Shen*
- 2:20 **BE8.** Influence of interfacial tension on the morphology of polymer blends. *C. Tufano, G. W. Peters, P. Van Puyvelde and H. E. Meijer*

Massachusetts

Polym. Sol. Rheology: Modeling & Expts.

- PS5.** Transient behavior of a tethered chain in uniform solvent flow. *A. Mohan and P. S. Doyle*
- PS6.** Molecular simulation investigation of cross-stream migration of chain molecules in nanofluidic channels. *R. Khare*
- PS7.** Migration, excluded volume and apparent slip in confined flowing polymer solutions: Concentration effects. *J. P. Hernandez-Ortiz, J. J. de Pablo and M. D. Graham*

Connecticut

Microfluidics, Confined Systems & Films

- MF11.** Single drop dynamics in confined geometries. *A. Vananroye, P. Van Puyvelde and P. Moldenaers*
- MF12.** Brownian dynamics simulations of the effect of polymer branching on electrophoresis through narrow constrictions. *Y. M. Lee and Y. L. Joo*
- MF13.** Single molecule visualization of polymers in flow through porous media. *C. D. DeLong and D. A. Hoagland*

Rhode Island

General Papers

- GP1.** Rigid random coils of carbon nanotubes. *H. S. Lee, C. H. Yun, H. M. Kim, M. Park and H. Lee*
- GP2.** Understanding polymer nanofiber electrospinning: Kinematic measurements and dimensional analysis. *M. E. Helgeson, K. N. Grammatikos, N. J. Wagner and J. M. Deitzel*
- GP3.** Modeling polymer melts containing short and long glass fibers: Part I Transient rheology. *A. P. Eberle, G. M. Velez, D. G. Baird and P. Wapperom*

2:45	BE9. Effects of compatibilizer on immiscible polymer blends near phase inversion. <i>J. D. Martin and S. S. Velankar</i>	PS8. Wormlike micellar solutions: A model and comparison with experiment. <i>P. A. Vasquez, P. Cook and G. H. McKinley</i>	MF14. Drop deformation in shear flow between parallel plates. <i>P. A. Janssen, P. D. Anderson and H. E. Meijer</i>	GP4. In situ synchrotron studies of structure development during injection molding of a liquid crystalline polymer. <i>W. R. Burghardt and S. Rendon</i>
3:10	BE10. Coalescence suppression and interfacial tension in reactively compatibilized polymer blends. <i>Y. Huo, G. Groeninckx and P. Moldenaers</i>	PS9. A Computational investigation into the effect of inhomogeneities in various models of wormlike micelles. <i>L. Zhou, P. Cook and P. A. Vasquez</i>	MF15. Simulations of DNA electrophoretic stretching in microfluidic contractions. <i>J. M. Kim and P. S. Doyle</i>	GP5. Some considerations on aspects of yield stress based on computational modeling. <i>N. S. Martys</i>
3:35				COFFEE
4:00	BE11. Equilibrium dynamics of a polymer bicontinuous microemulsion. <i>K. L. Brinker, W. R. Burghardt and S. Mochrie</i>	PS10. Structure and rheology of shear-banding wormlike micellar solutions. <i>N. J. Wagner, F. Nettesheim and E. Kaler</i>	MF16. Effect of flexibility on the shear-induced migration of short polymers in parabolic channel flow. <i>D. Saintillan, E. S. Shaqfeh and E. Darve</i>	GP6. Shear and effective elongational rheology and polymer molecular characteristics. <i>X. Wei, J. R. Collier and S. Petrovan</i>
4:25	BE12. Component terminal dynamics in PEO / PMMA blends. <i>I. Zeroni, S. Ozair and T. P. Lodge</i>	PS11. Rheo-optics of equilibrium polymer solutions: Wormlike micelles in planar elongational flow generated in a microfluidic cross-slot. <i>J. A. Pathak and S. D. Hudson</i>	MF17. Retention of polymer molecules in a cavity: A Lattice Boltzmann study. <i>H. Ma, J. J. de Pablo and M. D. Graham</i>	GP7. Investigating the steady and transient non-linear rheology of wormlike micellar solutions. <i>C. J. Pipe, N. J. Kim and G. H. McKinley</i>
4:50	BE13. Rheology and processing of LLDPE/LDPE blends: Long chain branching effects. <i>D. Omar, S. G. Hatzikiriakos, J. J. Feng and M. Sentmanat</i>	PS12. Persistence of rheo-chaos with hydrodynamic feedback and spatial coherence in confined plate-driven shear of nematic polymers. <i>R. Zhou, M. G. Forest and Q. Wang</i>	MF18. Confined diffusion of ds-DNA in slit-like nano-channels. <i>A. G. Balducci, P. Mao, J. Han and P. S. Doyle</i>	GP8. Shear induced long-range alignment of BCC ordered block-copolymers. <i>P. Mandare and H. H. Winter</i>
5:15	BE14. Crystallization of shape memory binary blends containing one crystallizable component. <i>C. J. Campo and P. T. Mather</i>	PS13. Rheology of nematic liquid crystal polymers in small amplitude oscillatory shear flow. <i>E. P. Choate and M. G. Forest</i>	MF19. Structure and dynamics of multiphase flows in microchannels. <i>S. M. Hashmi, M. Lowenberg and E. Dufresne</i>	GP9. Mechanical hole burning spectroscopy in block copolymers: Hole burning through the order-disorder transition. <i>G. B. McKenna, Q. Qin and X. Shi</i>
5:40	BE15. Prediction of crystalline structure formation in flowing polymer melts. <i>R. J. Steenbakkers, G. W. Peters and H. E. Meijer</i>	PS14. On solutions of Smoluchowski equation for solutions of rigid nematic polymers. <i>Q. Wang, M. G. Forest and R. Zhou</i>	MF20. Particle migration in 1D, 2D, and 3D microchannel flows. <i>J. F. Gilchrist and C. Gao</i>	GP10. On-line characterisation of small-scale polymer processing. <i>J. M. Maia, P. Teixeira, J. A. Covas and O. S. Carneiro</i>
6:05				END
6:10			POSTER SESSION & RECEPTION	Casco Bay Exhibit Hall

Thursday, October 12

Morning

	<i>Vermont</i>	<i>Massachusetts</i>	<i>Connecticut</i>	<i>Rhode Island</i>
	Blends, Emulsions and Multiphase Flows			General Papers
8:05	BE16. Shear-thickening of an emulsion stabilized with hydrophilic silica particles. <u>B. Wolf</u> , <u>W. J. Frith</u> and <u>M. Kirkland</u>	Polym. Sol. Rheology: Modeling & Expts.	MF21. Flow instabilities of two-phase immiscible fluids in microfluidic devices. <u>J. S. Lee</u> , <u>R. Dylla-Spears</u> and <u>S. J. Muller</u>	GP11. Rheology of polymer/clay nanocomposites. <u>M. K. Dolgovskij</u> , <u>C. W. Macosko</u> and <u>J. Vermant</u>
8:30	BE17. Stability and rheology of particle stabilised emulsions produced using hydrophilic silica particles in the presence of multivalent cations. <u>W. J. Frith</u> , <u>R. Pichot</u> , <u>M. Kirkland</u> and <u>B. Wolf</u>	PS15. Probing the origin of nonlinear velocity profiles in shear flow of entangled polymers. <u>S. S. Ravindranath</u> and <u>S.-Q. Wang</u>	MF22. Effects of geometry and fluid elasticity during polymeric droplet pinch-off in microfluidic environments. <u>A. Shen</u> , <u>R. Sureshkumar</u> and <u>B. Steinhaus</u>	GP12. Quiescent and flow-induced crystallization of propylene-clay nanocomposites. <u>M. A. Trece</u> and <u>J. P. Oberhauser</u>
8:55	BE18. Pressure drops for two phase droplet flow in microfluidic channels. <u>B. J. Adzima</u> and <u>S. S. Velankar</u>	PS17. Opening the black box of large step strain experiments. <u>S.-Q. Wang</u> and <u>S. S. Ravindranath</u>	MF23. Stable jets of viscoelastic fluids and self-assembled cylindrical capsules by hydrodynamic focusing in microfluidic devices. <u>K. V. Edmond</u> , <u>A. D. Dinsmore</u> and <u>J. P. Rothstein</u>	GP13. Dynamic rheology of thermoplastic elastomer gels derived from poly[styrene- <i>b</i> -(ethylene- <i>co</i> -butylene)- <i>b</i> -styrene] triblock copolymers and aliphatic oils. <u>R. Shankar</u> , <u>S. A. Khan</u> , <u>R. Bukovnik</u> , <u>T. K. Ghosh</u> and <u>R. J. Spontak</u>
9:20	BE19. Simulation of pulsating blood flow in a stenosed artery. <u>D. Lacasse</u> and <u>R. G. Owens</u>	PS18. Generalized Brownian configuration fields for Fokker-Planck equations including center-of-mass diffusion. <u>J. D. Schieber</u>	MF24. Physical properties of shear gel particles created using microfluidic channels. <u>G. Christopher</u> and <u>S. L. Anna</u>	GP14. Solvent driven gelation and melting of poly(vinyl alcohol) hydrogels. <u>G. J. Braithwaite</u> and <u>N. Turner</u>
9:45	BE20. A new microstructure-based constitutive model for human blood: Homogenous and non-homogenous flows. <u>M. A. Moyers-Gonzalez</u> and <u>R. G. Owens</u>	PS19. Hi fidelity coarse grained models for dynamics of dilute polymeric solutions. <u>V. Venkataramani</u> , <u>R. Sureshkumar</u> and <u>B. Khomami</u>	MF25. Bubble trains in non-Newtonian fluids. <u>M. Sullivan</u> , <u>D. Angelescu</u> and <u>H. A. Stone</u>	GP15. Viscoelastic properties of blood in evaluation of sub-lethal damage to RBCs in blood-contacting devices. <u>P. J. Marascalco</u> , <u>S. P. Ritchie</u> , <u>T. A. Snyder</u> and <u>M. V. Kameneva</u>
10:10			COFFEE	
10:35	BE21. Long-range stress-relaxation by local bubble rearrangements in foam. <u>H. Bissig</u> , <u>D. Sessions</u> , <u>A. Duri</u> , <u>L. Cipelletti</u> and <u>V. Trappe</u>	PS20. Schmidt number effects in DPD simulation of polymer solutions. <u>V. Symeonidis</u> , <u>B. Caswell</u> and <u>G. E. Karniadakis</u>	MF26. Drag reduction and mixing enhancement of laminar flows in microchannels with micro-patterned ultrahydrophobic walls. <u>J. Ou</u> , <u>G. Moss</u> and <u>J. P. Rothstein</u>	GP16. Mechanical, optical and thermal conductivity measurements on a cross-linked polybutadiene in uniaxial elongation. <u>D. C. Venerus</u> and <u>D. N. Kolev</u>
11:00	BE22. Simulation of bubble growth in polymer foaming. <u>P. Yue</u> , <u>J. J. Feng</u> and <u>C. A. Bertelo</u>	PS21. Simulation of the rheology of concentrated polymer solutions by dissipative particle dynamics (DPD). <u>C. W. Manke</u> , <u>Z. Kas</u> , <u>I. Macioce</u> and <u>J. Potoff</u>	MF27. Effects of drag-reducing polymers on blood flow in bifurcated microchannels. <u>J. N. Marhefka</u> , <u>R. Zhao</u> , <u>S. S. Velankar</u> , <u>H.-H. Hu</u> and <u>M. V. Kameneva</u>	GP17. Stress birefringence patterns and microstructure in strong extensional flows: Multiscale modeling and flow visualizations of long-chain branched polyethylenes. <u>D. H. Klein</u> , <u>T. C. McLeish</u> , <u>O. G. Harlen</u> , <u>D. G. Hassell</u> and <u>M. R. Mackley</u>
11:25	BE23. The shear modulus of particle-laden foam. <u>A. M. Kraynik</u> , <u>S. Cohen-Addad</u> , <u>R. Hohler</u> and <u>D. A. Reinelt</u>	PS22. Transient conformational change of bead-spring ring chain during creep process. <u>H. Watanabe</u>	MF28. Microfluidic device for measuring red blood cell (RBC) deformability under the extensional flow. <u>S. S. Lee</u> , <u>Y. Yim</u> , <u>J. S. Hong</u> , <u>K. H. Ahn</u> and <u>S. J. Lee</u>	GP18. A molecular dynamics study of the stress-optical behavior of a linear short-chain polyethylene melt under shear. <u>C. Baig</u> , <u>B. J. Edwards</u> and <u>D. J. Keffer</u>
11:50	BE24. The shape of bubbles and drops rising in a nematic liquid crystal. <u>C. Zhou</u> , <u>P. Yue</u> , <u>J. J. Feng</u> , <u>C. Liu</u> and <u>J. Shen</u>	PS23. Crosslinking of water-soluble polymers. <u>P. E. Clark</u>	MF29. Deformability-based analysis of red blood cells flowing in microchannels. <u>G. Tomaiuolo</u> , <u>M. Simeone</u> and <u>S. Guido</u>	GP19. Modeling reactive displacements along plane channels. <u>K. Wielage</u> , <u>J. J. Feng</u> and <u>I. A. Frigaard</u>
12:15	BE25. Dynamic interfacial tensiometry. <u>S. D. Hudson</u> and <u>J. A. Pathak</u>	PS24. Disentanglement behavior of DNA solutions as probed with particle-tracking velocimetry. <u>P. E. Boukany</u> and <u>S.-Q. Wang</u>	MF30. Shear banding of polymer blends. <u>A. Ferrara</u> , <u>S. Caserta</u> , <u>M. Simeone</u> and <u>S. Guido</u>	GP20. Thermoforming cones and cups. <u>M. A. Kershner</u> and <u>A. J. Giacomin</u>
12:40			END	

Poster Session

Wednesday 6:10 PM Casco Bay Exhibit Hall

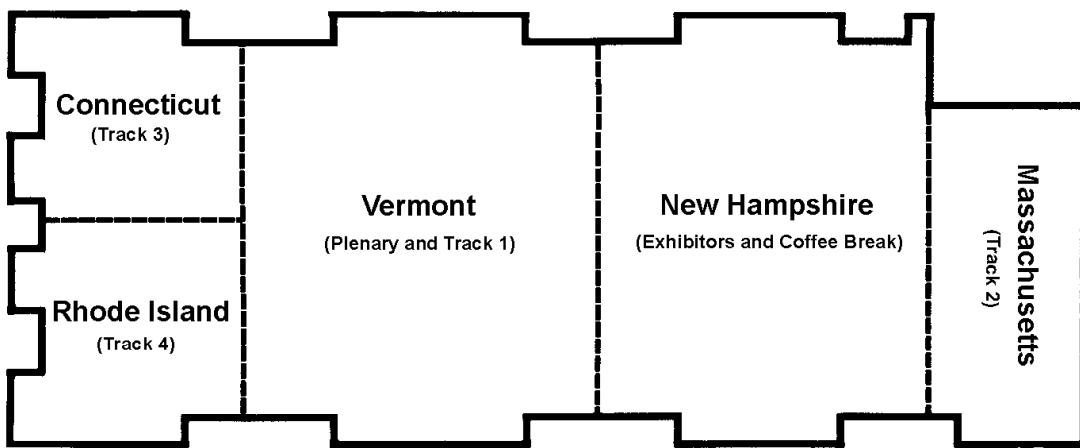
- PO1.** Non-contact measurement and control of the upper platen on a combined motor and transducer rheometer. A. Elmoumni and A. J. Franck
- PO2.** The AR-G2 magnetic bearing rheometer with a Du Noüy ring for interfacial rheological measurements. A. J. Franck and B. Costello
- PO3.** The specification of controlled torque rheometers. B. Costello, R. E. Smith, R. Ulbrich and A. J. Franck
- PO4.** A study of the rheological properties and droplet size distributions of some common nasal decongestant spray formulations. M. Bumiller and P. Rolfe
- PO6.** Rheology of heterogeneous polymer melts. C. L. Rohn, P. P. Rolfe and E. Bennett
- PO7.** Rheological measurements on fresh building materials. M. Haist, H. S. Müller, C. Küchenmeister and J. Nijman
- PO8.** Determination of the mechanical properties of a PVC coated wire with a new clamping fixture for rotational rheometers. J. Nijman and J. P. Plog
- PO9.** New and improved devices for measuring Electro- (ERF) and Magneto Rheological Fluids (MRF). J. Laeuger and P. Heyer
- PO10.** A comparison of extensional rheometers for polymer solutions. R. Clark, M. van der Wielen, N. Henderson and G. Thurston
- PO11.** An end users experience with the CaBER for water soluble polymers. M. van der Wielen
- PO12.** Experimental rheophysical investigation on concentrated noncolloidal particle suspensions in a wide-gap Couette cell. S. Wiederseiner and C. Ancey
- PO13.** Processing of polypropylene-clay nanocomposites: Single-screw extrusion with in-line supercritical carbon dioxide feed versus twin-screw extrusion. M. A. Treece and J. P. Oberhauser
- PO14.** Rheology and microstructure of organoclay dispersions. J. Li and J. P. Oberhauser
- PO15.** Soft glassy rheology of thermoreversible colloidal gels. G. Yin and M. J. Solomon
- PO16.** Fluorocarbon-based colloidal systems with triblock copolymers. X. Pan and S. R. Bhatia
- PO17.** Shear induced particle migration in binary colloidal suspensions. D. B. Semwogerere and E. R. Weeks
- PO18.** Aligning single-wall carbon nanotubes in soft media with external fields. J. A. Fagan, E. K. Hobbie and B. J. Bauer
- PO19.** Flow-SAXS studies of silica nanoparticles in polymer solutions. F. Snijkers and J. Vermant
- PO20.** Mason numbers for magnetorheology. D. Klingenberg, J. C. Ulicny and M. A. Golden
- PO21.** Reciprocity relations between Stokes flows of viscous and viscoelastic fluids. M. G. Forest, K. Xu and I. Klapper
- PO22.** Transient microrheology of heterogeneous gels. J. Sato and V. Breedveld
- PO23.** The characterization of droplet generation in branched microchannel. S. S. Lee, D. Choi, Y. Yim, K. H. Ahn and S. J. Lee
- PO24.** Colloidal particle suspension flow and transport behavior in small channels by Magnetic Resonance Microscopy. J. R. Brown, J. D. Seymour, S. L. Codd, G. R. Cokelet and M. Nydén
- PO25.** Biomechanics and micro-rheology in a primitive virtual cell. S. A. Sandersius and T. J. Newman
- PO26.** Effect of nanofluid on bubble behaviors and CO₂ absorption. W.-G. Kim, H. U. Kang and S. H. Kim
- PO27.** Rheology and phase behavior of nanostructured polyurethane/POSS hybrid dispersions prepared from homogeneous solution polymerization. S. A. Madbouly, J. U. Otaigbe, A. K. Nanda and D. A. Wicks
- PO28.** Rheology and crystallization behavior of nanostructured mPP/PC blend prepared via in situ polymerization and compatibilization. S. A. Madbouly and J. U. Otaigbe
- PO29.** Evaluation of viscous behavior for immiscible polymer blends. G. Sodeifian and M. Jamshidnejad
- PO30.** Varying phase continuity in polymer blends by sequence of mixing. J. D. Martin and S. S. Velankar
- PO31.** Elastic modulus and yield stress of suspensions of noncolloidal particles in yield stress fluids. G. Ovarlez, F. Mahaut, N. Roussel and P. Coussot
- PO32.** Dynamics in miscible blends of polystyrene and poly(vinyl methyl ether). W. Liu and R. H. Colby
- PO33.** Comparison of short and long chain polyethylene atomistic dynamics under shear and planar elongational flows. J. M. Kim, C. Baig, B. J. Edwards and D. J. Keffer
- PO34.** Three-dimensional simulations in contractions: Diverging flow, off-centre velocity maxima and “cat’s ears”. M. A. Alves and R. J. Poole

- PO35.** Prediction capability of a constitutive equation derived from reversible network with non-interacting dumbbell model. A. Sunarso and T. Yamamoto
- PO36.** Cavitation between a moving sphere and a plane in near contact hydrodynamic flow. S. Feng, C. Heath, J. Day, A. Meilstrup, M. Salazar, P. Reardon, M. Ingber and A. Graham
- PO37.** Simulation of Oldroyd-B and PTT fluids through abrupt contractions using an Arbitrary Lagrangian Eulerian (ALE) based finite element method. V. Ganvir, B. P. Gautham, R. Thoakar and A. Lele
- PO38.** Comprehensive modeling of nonisothermal polymer jets in melt electrospinning. E. Zhmavayev, H. Zhou and Y. L. Joo
- PO39.** Visualization of the distribution of glass fibers in molten polypropylene through a circular die. J. Pérez-González, E. Vázquez-Otero and L. de Vargas
- PO40.** Enthalpic viscosity. J. P. Ibar
- PO41.** Time-dependent relaxation in cellulose based gels. F. K. Oppong and J. de Bruyn
- PO42.** Rheology of blood in men and pre-menopausal women: Potential risk factors for development of cardiovascular diseases. M. V. Kameneva
- PO43.** Gastric mucin exhibits pH dependent sol-gel transition. J. P. Celli, B. S. Turner, N. H. Afshar, R. Ewoldt, G. H. McKinley, R. Bansil and S. Erramilli
- PO44.** Determining motor inertia of a stress-controlled rheometer for more accurate measures near speaking frequencies. S. A. Klemuk and I. R. Titze
- PO45.** Using rheological and tribological methods to better assess mouthfeel of food systems. W. R. Aimutis, S. K. Baier, S. J. Debon, B. Guthrie, P. Heyer, J. Laeuger and J. Vanhemelrijck
- PO46.** Gastropod locomotion: How tuned are the properties of the mucus? E. Lauga and A. E. Hosoi
- PO47.** Rheological properties of lysozyme in ethanol-water mixtures. D. Sessoms, I. Bischofberger and V. Trappe
- PO48.** Viscoelastic characterization for optimization of the soft-tissue seal around osseointegrated lower-limb prosthetics. B. Holt, A. Tripathi, R. Clifton and J. Morgan
- PO49.** Time dependent effect of D-penicillamine on the viscosity of hyaluronic acid solutions. W. E. Krause and J. Liang
- PO50.** Slip during viscometric flows of viscoplastic liquids. P. R. de Souza Mendes, F. H. Marchesini and P. Mey
- PO51.** Correlation length of salt-free polyelectrolyte solutions investigated by rheology and SAXS. S. Dou and R. H. Colby
- PO52.** Synthesis and rheology of hydrophobically modified poly(vinyl alcohol)[HMPVA] using gallic acid derivatives. A. Shedge, A. Lele, P. Wadgaonkar and M. Badiger
- PO53.** Torque and normal force responses of glassy polymers: Evidence of the influence of side group beta-relaxations. G. B. McKenna and A. L. Flory
- PO54.** Examination of the pom-pom constitutive equation for two polymers melts set. G. Sodeifian
- PO55.** MD simulation of polymer melt: Chain architecture, potential model and DPD thermostat. Y. Wang, F. Y. Hansen, G. Peters and O. Hassager
- PO56.** Rheological modeling of warpage in polymeric products by plug-assisted vacuum thermoforming. H. Hosseini
- PO57.** Rheological method for prediction of the quality of dispersion in composites. H. Hosseini
- PO58.** Dynamics, stability and sensitivity of slot-fed curtain coating flow. S. I. Youn, D. M. Shin, J. S. Lee, H. W. Jung and J. C. Hyun
- PO59.** Determination and analysis of the pressure dependence of the viscosity of molten polymers. R. Cardinaels, P. Van Puyvelde and P. Moldenaers
- PO60.** Microstructure and LCB differences in tubular and CSTR polyolefins and ethylene copolymers. P. M. Cotts
- PO61.** Viscous and elastic properties of linear and short-chain branched polyethylenes. F. J. Stadler, J. Kaschta and H. Münschedt
- PO62.** Elastic breakup of entangled polymers in shear: What is chain disentanglement? S.-O. Wang, P. E. Boukany and S. S. Ravindranath
- PO63.** New understanding on polymer wall slip. Y. Wang, P. E. Boukany and S.-Q. Wang
- PO64.** Distinguishing between shear banding and shear thinning behavior in entangled systems. Y. T. Hu
- PO65.** Cooperative networks: Viscoelastic control in solutions of wormlike micelles and polymers. M. W. Liberatore, N. Wyatt and N. Work
- PO66.** Sensitivity and stability analysis of fiber spinning process accompanied by flow-induced crystallization. D. M. Shin, J. H. Yun, J. S. Lee, H. W. Jung and J. C. Hyun
- PO67.** Electromechanical response of highly filled SEBS/carbon conductive composites. R. Ibarra, O. E. Rodríguez, M. E. Mendoza and A. Márquez

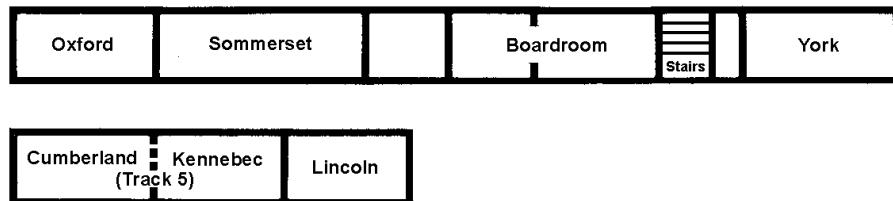
- PO68.** Analysis of the upstream plane Poiseuille flow of a shear banding micellar solution and its relation with flow instabilities. *J. Pérez-González, B. M. Marín-Santibáñez, L. de Vargas and G. Huelsz*
- PO69.** Effect of strain % on the viscosity-frequency curve of polymeric melt. *J. P. Ibar*
- PO70.** Rheo-SANS at NIST Center for Neutron Research. *L. Porcar, P. D. Butler and N. J. Wagner*
- PO71.** Active laser tweezer microrheology of colloidal suspensions. *I. Gopal and E. M. Furst*
- PO72.** Quantification of the effects of cellular microstructure on high density flexible foam mechanical properties. *T. Marks, S. Gleiman and F. Milstein*

Floor Plan – Holiday Inn By The Bay

Main Level (State of Maine Grand Ballroom)



Second Floor



Social Program

Sunday, October 8

Welcoming Reception

7:00 PM – 9:00 PM Vermont/Connecticut/Rhode Island

Sponsored by a generous contribution from TA Instruments

Monday, October 9

Society Luncheon

11:50 AM – 1:50 PM Casco Bay Exhibit Hall

Society Reception

7:00 PM – 9:00 PM Portland Museum of Art

Sponsored in part by a generous contribution from Malvern Instruments

Tuesday, October 10

Society Business Meeting

6:10 PM Massachusetts

Awards Reception

7:00 PM Casco Bay Exhibit Hall

Sponsored by a generous contribution from Xpansion Instruments

Awards Banquet

8:00 PM Vermont

Wednesday, October 11

Poster Session Reception

6:10 PM – 8:10 PM Casco Bay Exhibit Hall

Sponsored by a generous contribution from Anton-Paar USA

The Society gratefully acknowledges the support by the Department of Chemical and Biological Engineering at the University of Maine in hosting the meeting. The Society also gratefully acknowledges the generous contributions of the event sponsors.