## Meeting Schedule

### Monday, October 13, 2003
- **8:30** R. B. Bird (PL1)
- **9:20** Coffee
- **9:45** SM1 VFI1 RS1 MM1
- **10:10** SM2 VFI2 RS2 MM2
- **10:35** SM3 VFI3 RS3 MM3
- **11:00** SM4 VFI4 RS4 MM4
- **11:25** SM5 VFI5 RS5 MM5
- **11:50** Lunch
- **1:30** SM6 VFI6 RS6 MM6
- **1:55** SM7 VFI7 RS7 MM7
- **2:20** SM8 VFI8 RS8 MM8
- **2:45** SM9 VFI9 RS9 MM9
- **3:10** Coffee
- **3:35** SM10 VFI10 RS10 MM10
- **4:00** SM11 VFI11 RS11 MM11
- **4:25** SM12 VFI12 RS12 MM12
- **4:50** SM13 VFI13 RS13 MM13
- **5:15** SM14 VFI14 RS14 MM14
- **5:40** End
- **7:00** Awards Reception
- **8:00** Awards Banquet

### Tuesday, October 14, 2003
- **8:30** G. Marrucci (PL2)
- **9:20** Coffee
- **9:45** SM15 VFI15 EA1 MM15
- **10:10** SM16 VFI16 EA2 MM16
- **10:35** SM17 VFI17 EA3 MM17
- **11:00** SM18 VFI18 EA4 MM18
- **11:25** SM19 VFI19 EA5 MM19
- **11:50** Lunch
- **1:30** SM20 VFI20 EA6 MM20
- **1:55** SM21 VFI21 EA7 MM21
- **2:20** SM22 VFI22 EA8 MM22
- **2:45** SM23 VFI23 EA9 MM23
- **3:10** Coffee
- **3:35** SM24 VFI24 EA10 LC1
- **4:00** SM25 VFI25 EA11 LC2
- **4:25** SM26 VFI26 EA12 LC3
- **4:50** SM27 VFI27 EA13 LC4
- **5:15** End
- **5:30** Business Meeting
- **7:00** Tuesday Night Reception

### Wednesday, October 15, 2003
- **8:30** A. B. Metzner (PL3)
- **9:20** Coffee
- **9:45** SM28 VFI28 EA14 LC5
- **10:10** SM29 VFI29 EA15 LC6
- **10:35** SM30 VFI30 EA16 LC7
- **11:00** SM31 VFI31 EA17 LC8
- **11:25** SM32 VFI32 EA18 LC9
- **11:50** Lunch
- **1:30** SM33 BR1 EA19 LC10
- **1:55** SM34 BR2 EA20 LC11
- **2:20** SM35 BR3 EA21 LC12
- **2:45** SM36 BR4 EA22 LC13
- **3:10** Coffee
- **3:35** SM37 BR5 EA23 LC14
- **4:00** SM38 BR6 EA24 LC15
- **4:25** SM39 BR7 EA25 LC16
- **4:50** SM40 BR8 EA26 LC17
- **5:15** SM41 BR9 EA27 LC18
- **5:40** End
- **6:00** Poster Session & Refreshments

### Thursday, October 16, 2003
- **8:05** SM42 BR10 ER1 LC19
- **8:30** SM43 BR11 ER2 LC20
- **8:55** SM44 BR12 ER3 LC21
- **9:20** SM45 BR13 ER4 LC22
- **9:45** Coffee
- **10:10** SM46 BR14 ER5 LC23
- **10:35** SM47 BR15 ER6 LC24
- **11:00** SM48 BR16 ER7 LC25
- **11:25** SM49 BR17 ER8 LC26
- **11:50** SM50 BR18 ER9 LC27
- **12:15** End

### Session Codes
- **BR** = Biorheology
- **EA** = Entangled Polymers and Analytical Rheology
- **ER** = Extensional Rheology
- **LC** = Liquid Crystalline Polymers and Self-Assembling Fluids
- **MM** = Microrheology, Microfluids and MEMS
- **PL** = Plenary Lectures
- **RS** = Rheology of Solids and Near-Solids
- **SM** = Suspension and Multiphase Fluids
- **VF** = Viscoelastic Flows and Instabilities
# Monday, October 13

## Morning

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speakers</th>
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<tbody>
<tr>
<td>8:30</td>
<td>PL1</td>
<td>Dumbbells, trumbbells, shishkebabs, and pearl necklaces — a gallimaufry of results</td>
<td>R. Bird Grand Station I/II</td>
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<tr>
<td>9:20</td>
<td>COFFEE</td>
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<tr>
<td>9:45</td>
<td>SM1</td>
<td>Effect of film formation on tack of waterborne adhesives.</td>
<td>M. S. Tirumukudulu, W. B. Russel and T. J. Huang</td>
</tr>
<tr>
<td>10:10</td>
<td>VF1</td>
<td>Monte Carlo simulation of uniaxial extension of dilute polymer solutions.</td>
<td>X. Li and M. M. Denn</td>
</tr>
<tr>
<td>10:35</td>
<td>SM2</td>
<td>Kinetic transitions and osmotic interactions.</td>
<td>E. Stiakakis, G. Petekidis, D. Vlassopoulos and J. Roovers</td>
</tr>
<tr>
<td>10:50</td>
<td>VF2</td>
<td>Self-consistent Brownian dynamics simulation of rheology of polymer blends.</td>
<td>V. Ganesan, V. Pryamitsyn and B. Narayanan</td>
</tr>
<tr>
<td>11:00</td>
<td>SM3</td>
<td>Shear thickening of attractive particles in suspensions and gels.</td>
<td>V. Gopalakrishnan and C. F. Zukoski</td>
</tr>
<tr>
<td>11:25</td>
<td>SM4</td>
<td>Shear induced anisotropy in reversibly aggregated suspensions.</td>
<td>H. Hoekstra, J. Vermant, J. Mewis and T. Narayanan</td>
</tr>
<tr>
<td>11:50</td>
<td>SM5</td>
<td>The rheology of model polyampholyte stabilized colloidal dispersions: Comparison of experiments and theory.</td>
<td>L.-N. Krishnamurthy, D. C. Boris and N. J. Wagner</td>
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<tr>
<td>11:50</td>
<td>LUNCH</td>
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## Afternoon

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>1:30</td>
<td>SM6</td>
<td>Rheology and microrheology of microgels and compressed emulsions.</td>
<td>E. Pashkovski, L. Cipelletti, S. Manley and D. Weitz</td>
</tr>
<tr>
<td>2:00</td>
<td>VF6</td>
<td>Dilute polymer flow incorporating slippage and polymer migration: Model formulation and predictions.</td>
<td>L. P. Cook and L. Rossi</td>
</tr>
<tr>
<td>2:30</td>
<td>RS1</td>
<td>Elastic instabilities in rubber: Aneurysms, wrinkles and knots.</td>
<td>A. N. Gent</td>
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<tr>
<td>3:00</td>
<td>SM7</td>
<td>Rheo-dielectric behavior of poly(ethylene oxide) containing lithium perchlorate.</td>
<td>Y. Matsumiya, N. P. Balsara and H. Watanabe</td>
</tr>
<tr>
<td>3:30</td>
<td>RS2</td>
<td>Stress and birefringence relaxation in end-linked elastomers with pendent chains.</td>
<td>A. Baira, M. Chaouche, C. Cohen and L. A. Archer</td>
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<tr>
<td>4:00</td>
<td>MM1</td>
<td>Geometrically mediated breakup of drops in microfluidic devices.</td>
<td>D. R. Link, S. L. Anna, D. Weitz and H. A. Stone</td>
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<tr>
<td>4:30</td>
<td>MM2</td>
<td>Microfluidic analogue of the 4-roll mill: Pressure-driven flow devices with adjustable flow type.</td>
<td>S. D. Hudson, F. R. Phelan and J. T. Cabral</td>
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<tr>
<td>5:00</td>
<td>MM3</td>
<td>Velocity profiles in circular microchannels with hydrophobic and hydrophilic surfaces.</td>
<td>L. F. Douglas, N. S. Martys and J. G. Hagedorn</td>
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<td>5:30</td>
<td>MM4</td>
<td>Breakup of a fluid in a confined geometry.</td>
<td>J. F. Douglas, N. S. Martys and J. G. Hagedorn</td>
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<td>6:00</td>
<td>MM5</td>
<td>Oscillatory behavior and pattern formation in binary fluids flowing in patterned microchannels.</td>
<td>O. Kuksenok, D. Jasnow, J. Yeomans and A. Balazs</td>
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## Grand Station I
- Suspension & Multiphase Fluids
- Viscoelastic Flows & Instabilities
- Rheology of Solids & Near-Solids

## Grand Station III
- Grand Station IV
- Grand Station V

## Grand Station V
- Microrheology, Microfluids & MEMS
SM7. Structure in concentrated colloidal gels: Relation to interparticle potential and effect of shear flow. S. L. Elliott, R. J. Butera and N. J. Wagner


RS7. Structural recovery response of an epoxy resin after carbon dioxide pressure-jumps: Intrinsic isoepistics, asymmetry of approach and memory effects. M. Alcoutlabi, L. Banda and G. B. McKenna


MM9. From two-point microrheology to cell mechanics. J. C. Crocker, B. D. Hoffman and G. Massiera

SM10. Shear controlled aggregation and break-up in suspensions, studied with video microscopy. M. H. Dauts, V. A. Tolpekin, D. van den Ende and J. Mellema


RS10. Characterization of cured and uncured highly filled polymers using the new SER extensional rheometer fixture. M. Senimanat

MM10. A microbubble method to measure biaxial creep of nanometer thickness films. P. A. O'Connell and G. B. McKenna

SM11. Rheology and microstructure of stERICALLY stabilized, acicular precipitated calcium carbonate dispersions and the shear thickening behavior. R. G. Egres and N. J. Wagner

VF11. The effect of rheological properties in viscoelastic turbulent channel flow. K. D. Houssadis and A. N. Bertis

RS11. On the implementation of time-temperature superposition. S. Varghese and D. A. Hill

MM11. Surface dynamics in semi-crystalline polymer films. K. Tanaka, A. Sakai, A. Takahara and T. Kajiyama

SM12. Rheological properties and flow-small angle neutron scattering of stable dispersions of nanoparticles at high shear rates. Y. S. Lee and N. J. Wagner


MM12. Nanorheology using the atomic force microscope. P. M. McGuiggan and D. J. Yarusso


RS13. Cooperative dynamics in glass-forming liquids. B. M. Erwin, R. H. Colby and S. K. Kumar

MM13. Rheology and birefringence at high shear rates. K. S. Mriziq, M. D. Dadmun and H. D. Cochran


RS14. Role of molecular tacticity on the crystal structure and plastic deformation behavior of semi-syndiotactic polyproplyenes. M. Sevegney, G. Parthasarthy, R. M. Kannan and A. Siedle


5:40 END

7:00 AWARDS RECEPTION Reflections/Waterfront

8:00 AWARDS BANQUET Admiral

The Society of Rheology 75th Annual Meeting, October 2003
### Tuesday, October 14

#### Morning

<table>
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<tr>
<td>8:30</td>
<td>PL2.</td>
<td>The nonlinear response of entangled polymers. Does theory explain all the facts?</td>
<td>G. Marrucci and G. Ianniruberto</td>
<td>Grand Station I/II</td>
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<td>9:20</td>
<td>COFFEE</td>
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<td>10:35</td>
<td>SM17.</td>
<td>Shear behavior of attractive and repulsive emulsions: Relationship of attractive forces, negative normal stresses, and vorticity alignment. A. Montesi, A. Peña and M. Pasquali</td>
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<td>Grand Station IV</td>
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<td>11:00</td>
<td>SM18.</td>
<td>Extension of the Maffettone and Minale model to predict effects of high order in capillary number. M. Minale</td>
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<td>Grand Station V</td>
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#### Afternoon

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<tr>
<td>1:30</td>
<td>SM20.</td>
<td>Effect of compatibilization on the deformation and breakup of droplets in polymer blends. E. Van Hemelrijck, P. Van Puyvelde and P. Moldenaers</td>
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<td>Grand Station I</td>
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### COFFEE
1:55  **SM21.** Drop breakup in shear flow.  
*V. Cristini*

**VF21.** Modeling and simulation of polymer degradation in contraction flow.  
*I. B. Owusu and Y. L. Joo*

**EA7.** Developing useful phenomenological rheology models with physically meaningful parameters.  
*C. P. Lusignan*

**MM21.** Probe surface chemistry and particle size dependence of microrheological measurements in F-actin.  
*B.-S. Chae and E. M. Furst*

2:20  **SM22.** A new mechanism for drop breakup in emulsions under shear.  
*X. F. Zhao and J. L. Goveas*

**VF22.** Parallel shear flow of a fluid with pressure dependent viscosity.  
*M. Renardy*

**EA8.** Nonresonant mechanical hole burning spectroscopy to study dynamic heterogeneity in polymers.  
*X. F. Shi and G. B. McKenna*

**MM22.** Membrane and interfacial microrheology.  
*A. J. Levine and F. C. MacKintosh*

2:45  **SM23.** Modeling coalescence, breakup and relaxation of polymer droplets.  
*A. A. Leyrat, M. Brizard, C. Verdier, T. Biben and C. Misbah*

**VF23.** Characterization and control of sharkskin instability through localized thermal modification.  
*E. Miller and J. P. Rothstein*

**EA9.** Dynamical properties of hairy wormlike micelles.  
*G. Massiera, L. Ramos and C. Ligoure*

**MM23.** Investigating stress fluctuations and active behavior of living cells.  
*B. D. Hoffman, A. W. Lau, T. C. Lubensky and J. C. Crocker*

3:10  **COFFEE**

3:35  **SM24.** Large scale hydrodynamic simulations of emulsions and foams.  
*J. L. Higdon and M. S. Talbot*

**VF24.** Constitutive origin of sharkskin-like melt fracture: An update.  
*Z. Zhu and S.-Q. Wang*

**EA10.** Relaxation dynamics of entangled cis-polyisoprene physisorbed at surfaces.  
*Q. Zhang and L. A. Archer*

**LC1.** Kinetics of shear banding in wormlike micellar solutions probed by simultaneous rheometry and particle image velocimetry.  
*Y. T. Hu*

4:00  **SM25.** A constitutive equation for highly viscous foam.  
*M. Doi and A. M. Kraynik*

**VF25.** The gas-assisted full slip extrusion of molten polyethylene.  
*R. Liang and M. R. Mackley*

**EA11.** Pressure dependent viscosities and dissipation heating in high shear rate capillary rheometry.  
*H. M. Laun*

**LC2.** Study of the shear banding in wormlike micellar solutions using NMR.  
*M. R. López González, P. Photinos and P. T. Callaghan*

4:25  **SM26.** Rheological study of injection-molded LDPE foams.  
*X. Chen, M.-C. Heuzey and P. J. Carreau*

**VF26.** Negative wake and velocity discontinuity of a bubble rising in a viscoelastic fluid.  
*S. Pillapakkam and P. Singh*

**EA12.** The effects of supercritical CO$_2$ and pressure on the rheological properties of a molten polyethylene.  
*H. E. Park and J. M. Dealy*

**LC3.** Tuning rheological properties of cationic surfactant solutions by varying solvent polarity, temperature and counterion concentration.  
*Y. Zhang, J. Schmidt, Y. Talmon and J. Zakin*

4:50  **SM27.** Stability of "solid-stabilized" emulsions.  
*G. G. Fuller and E. Stancik*

**VF27.** The influence of elasticity on the drop formation and spraying processes.  
*H. Shore, G. Park and G. M. Harrison*

**EA13.** Fast oscillation.  
*S. W. Race, K. Hedman and B. C. Mei*

**LC4.** Transient extensional rheology of wormlike micelle solutions.  
*J. P. Rothstein*

5:15  END

5:30  **BUSINESS MEETING**  
Grand Station III

7:00  **TUESDAY NIGHT RECEPTION**  
River Cruise and Dinner
Wednesday, October 15

Morning

8:30  PL3. Development of the science of rheology since its formal inception. A. B. Metzner  Grand Station I/II
9:20  COFFEE

PL3. Development of the science of rheology since its formal inception. A. B. Metzner  Grand Station I/II

9:45  SM28. Effect of the rheology of the suspending fluid on string formation in suspensions. J. Vermant, R. Scirocco and J. Mewis


10:00 SM29. Jamming in concentrated suspensions. K. M. Knipmeyer and D. J. Pine


10:00 EA15. Rheological characterization of polymer melts with narrow molecular weight distribution. D. Venerus and T. Schweizer


10:35 EA16. Effects of polydispersity on the rheological properties of entangled polystyrene solution. X. Ye and T. Sridhar

11:00 SM31. Diffusivities and front propagation in sedimentation. P. J. Mucha and M. P. Brenner

11:00 VF31. Role of inertia and gap temperature on the thermoelastic instability in Taylor-Couette flow. D. Thomas, R. Sureshkumar and B. Khomami

11:00 EA17. Effect of molecular architecture on the rheology of polymer blends: Birefringence and rheo-FTIR. S. B. Kharchenko and R. M. Kannan


11:25 VF32. Purely elastic instabilities in non-viscometric viscoelastic flows. B. Sudanandan and R. Sureshkumar


11:50 LUNCH

Afternoon

1:30 SM33. Nonlocal electrostatics and structural coarsening in electrro rheological fluids. D. Klingenberg and J. F. Morris

1:30 BR1. Mechanical properties of living cells measured by magnetic twisting cytometry. G. Massiera and J. C. Crocker

1:30 EA19. Theoretical modeling of the conformation of entangled linear polymers under rapid flow as measured by small angle neutron scattering. R. S. Graham, A. E. Likhtman, T. C. McLeish, T. M. Nicholson, D. J. Read and O. G. Harlen

1:30 LC10. Rheology of multi-component rod-like micellar solutions. P. Pimenta, J. Gambogi and E. Pashkovski
SM34. Steady and transient shear flow of magnetic dispersions: Structure and rheology. M. Piao, A. M. Lane and J. M. Wiest

SM35. Magnetorheological suspensions: Rheology and applications in controllable energy absorption. S. S. Deshmukh and G. H. McKinley

SM36. Induced particle aggregation in suspensions: Effect on rheological properties. F. E. Filisko, R. Lynch and Y. Meng


SM38. Orientation effects on the capillary instabilities for thin liquid crystalline fibers embedded in a flexible polymer matrix. J. Wu and P. T. Mather


SM40. Collision efficiency of orthokinetic agglomeration of particulate suspensions subjected to polymer bridging flocculation. S. Agarwal, R. K. Gupta and D. Doraiswamy

SM41. Nanoparticles induced non-Einstein like behavior of polymer melts. A. Tuteja, M. E. Mackay and C. J. Hawker

BR2. Microrheology and adhesion in cellular systems. A. A. Leyrat, E. Canetta, R. Chotard-Ghodnia, C. Verdier and A. Duperray


BM20. Predicting the viscosity of a miscible polymer blend. T. P. Lodge and J. C. Haley


BM23. Linear and nonlinear relaxation dynamics of entangled branched polymers. J. Juliani and L. A. Archer


BM27. Effects of polydispersity and branch-point motion on the rheology of entangled polymers. S. Shanbhag and R. G. Larson

BM28. Effect of high electric fields on the isotropic phase of a lyotropic liquid crystalline system. T. J. Menna and F. E. Filisko
Thursday, October 16

Morning

Grand Station I
Suspension & Multiphase Fluids

8:05 SM42. Rheology of highly concentrated particle-liquid systems. R. G. Morgan and J. F. Morris

8:30 SM43. Visco-elastic surfactant fluids as particle transport media for hydraulic fracturing operations. P. F. Sullivan, H. Huang and E. Nelson

8:55 SM44. Characterization of bauxite residue for neutralization of acid mine drainage. E. M. Humiston


9:45 COFFEE

10:10 SM46. Rheological behavior of polystyrene (PS) with incorporation of hybrid polyhedral oligosilsesquioxane (POSS). J. Wu, T. S. Haddad and P. T. Mather

10:35 SM47. Morphological effects of tethered and untethered polyhedral oligosilsesquioxanes (POSS) on the viscometric and linear viscoelastic properties of PMMA. E. T. Kopesky, G. H. McKinley, R. E. Cohen and T. S. Haddad

11:00 SM48. Rheology of polyanime-6/clay based layered silicate nanocomposites. R. K. Ayyer and A. I. Leonov


Grand Station III
Biorheology


8:15 BR11. Evolution of microstructure and rheology in mixed biopolymer systems. V. Pui, M. Srinivasarao and S. A. Khan

8:55 BR12. Rheology of hagfish mucins. S. A. Melotti, G. J. Braithwaite, D. S. Fudge and J. M. Gosline


9:45 COFFEE


11:00 BR16. Electrophoretic dynamics of large DNA stars. D. Heuer and L. A. Archer


Grand Station IV
Extensional Rheology

8:05 ER1. The use of capillary breakup extensional viscosity to examine concentration dependence of relaxation time. G. M. Neal and G. J. Braithwaite

8:30 ER2. Extensional rheology of paper coating colors at high strain rates. A. Arzate, G. Ascanio, P. J. Carreau and P. A. Tanguy


9:45 COFFEE

10:10 ER5. Fingerprinting polymer macrostructure using the new SER extensional rheometer fixture. M. Sentmanat


11:00 ER7. Recovery and rupture in extensional flow of entangled polymers. Y. M. Joshi and M. M. Denn

11:25 ER8. Relating molecular structure and rheology of model branched polystyrene melts by MSF theory. M. H. Wagner, J. Hepperle and H. Münstedt

11:45 COFFEE

Grand Station V
Liquid Crystalline & Self-Assembling


9:45 COFFEE

10:10 LC23. Amphiphilic block copolymer hydrogels: Tuning gel rheology through molecular architecture. V. Breedveld, A. Nowak, T. J. Deming and D. J. Pine


11:00 LC25. Linear viscoelasticity of telechelic fluoroalkyl PEGs. R. L. Hoag and R. J. English

11:25 LC26. On the weak nematic elasticity. A. I. Leonov and V. S. Volkov
SM50. The effect of hydrodynamic interactions on the kinetics of ternary mixtures with reversible chemical reactions. K. Good, O. Kuksenok, G. Buxton, V. V. Ginzburg and A. Balazs

BR18. Effect of molecular weight of polymer matrix on electrophoretic mobility of large linear and star shaped DNA. S. Saha and L. A. Archer

ER9. Investigation of semihyperbolically converging dies for the measurement of elongational viscosity of polymeric fluids. K. Feigl, B. J. Edwards, F. X. Tanner and J. R. Collier

LC27. Anomalous rheology in a diblock copolymer/hydrocarbon system and its kinetic origin. Z. Liu and M. T. Shaw
Poster Session

Wednesday 6:00 PM Relections/Waterfront

PO1. Microhydrodynamics of concentrated hard sphere suspensions by particle-tracking confocal microscopy. Q. Lu, C. Dibble and M. Solomon


PO3. Shear and extensional thickening of filled silica suspensions. G. Bettin and G. H. McKinley

PO4. Direct imaging of three-dimensional structure of colloidal gels by confocal microscopy. M. H. Lee and E. M. Furst

PO5. Real-time X-ray radiography of a bubble rising through a concentrated suspension. A. M. Grillet, L. A. Mondy, V. Chawla and A. Graham


PO7. Effect of particle surface modification in concentrated suspension on rheological behavior. A. Hamamoto and S. J. Muller


PO9. Shear-thinning of polydisperse suspensions. A. Graham, J. Abbott, V. Chawla, R. S. Admuhe and P. Reardon

PO10. Stress fluctuations of a jammed emulsion under shear. G. Massiera and J. C. Crocker


PO12. Shear effects on microstructural dynamics of biopolymer microemulsions. J. Nesamony and W. M. Kolling


PO16. Quantification and characterization of DNA damage induced by the Fenton reaction and pyrogallol using a novel falling needle viscometric assay. H. L. Park and N. A. Park

PO17. DNA molecular configurations in flows near a glass surface. L. Fang, L. Li, H. Hu and R. G. Larson


PO19. One and two point microrheology of actin solutions. M. Atakhorrami, G. H. Koenderink and C. F. Schmidt


PO21. Investigating the local structural properties of MAXI (β-hairpin peptide) using multiple particle tracking microrheology. C. S. Palla, K. Rajagopal, J. Schneider and E. M. Furst


PO24. Charge density effects in polyelectrolyte solution rheology. S. Dou and R. H. Colby


PO26. One and two point microrheology in wormlike micelle systems. M. Atakhorrami, M. Buchanan, J.-F. Paliener and C. F. Schmidt

PO27. On the strength of monodomain attractors in sheared nematic polymers. X. Zheng, M. G. Forest, R. Zhou and Q. Wang


PO29. Transient molecular orientation in the wagging regime of a poly(benzyl glutamate) solution. W. Burghardt, S. Fay and S. Rendon


PO31. Shear gelation and relaxation of polymer-clay dispersions. D. C. Pozzo and L. M. Walker

PO32. Rheological properties of polystyrene /clay nanocomposites prepared by in-situ free radical polymerization. Y. Zhong and S.-Q. Wang
PO35. Rheology of poly-methacrylate glasses. B. M. Erwin and R. H. Colby
PO36. Description and validation of a nonlinear viscoelastic theory for glassy polymers. D. B. Adolf, R. S. Chambers and J. M. Caruthers
PO37. Torque and normal force measurements in polymer glasses. A. Flory and G. B. McKenna
PO38. Effects of the degree of undercooling on flow-induced crystallization in polymer melts. N. Grizzuti, S. Coppola and P. L. Maffettone
PO39. Influence of long chain branching on elongation and shear properties of polyethylene. F. A. Firozi and R. Ahmed
PO40. Structural formation of amorphous poly(ethylene terephthalate) under uniaxial deformation. D. Kawakami, S. Ran, C. Burger, I. Sics, C. Avila-oria and B. S. Hsiao
PO41. Rheological effects in reactive blending of polymers. N. Dufaure, P. J. Carreau, M.-C. Heuzey and A. Michel
PO42. Rheological response of isotactic polypropylene/polyamide-6 blends during coalescence. J. E. Perilla and S. C. Jana
PO43. Yield-like constitutive transition in entangled melts. P. Tapadia and S.-Q. Wang
PO44. Rheological behavior of ethylene vinyl acetate copolymer with vinyl acetate and dicumyl peroxide contents. Y.-T. Sung, W. J. Seo, J. H. Park and W. N. Kim
PO45. Rheology of polyethylenes with novel branching topology. R. Patil, R. H. Colby, G. Chen and Z. Guan
PO46. Enhanced melt strength and stretching of linear-low density polyethylene extruded under strong slip conditions. T. D. J. Guadarrama-Medina, J. Pérez-González and L. de Vargas
PO47. Rheological characterization of structural evolution in triblock copolymers. A. Philips and S.-Q. Wang
PO48. LAOS (Large Amplitude Oscillatory Shear) behavior of PEO-PPO-PEO triblock copolymer solution. K. Hyun, K. H. Ahn and S. J. Lee
PO49. Spreading of model non-Newtonian fluids. G. K. Seevaratnam, L. M. Walker and S. Garoff
PO50. Multiplicity and stability analysis of the nonisothermal film blowing process. H. W. Jung, J. S. Lee and J. C. Hyun
PO51. Stability analysis of the film casting process with encapsulation die. J. S. Lee, H. W. Jung and J. C. Hyun
PO52. Microrheology of elastomeric polypropylene probed by rheo-optical FTIR spectroscopy. R. Inapagolla, R. Kannan, W. Wiyatno, G. G. Fuller and R. Waymouth
PO53. Conformational evolution of polymer chains over extended time periods and polymer lengths. P. Dimitrakopoulos
PO54. Integral model simulations of stress distributions in an axisymmetric stagnation flow. J. Bryant and W. Burghardt
PO55. A mesoscopic description of diffusion process through polymeric materials. Q. Liu and D. De Kee
PO56. Accurate numerical simulation with essential reduced-order microstructure models. V. Venkataramani, R. Sureshkumar and B. K. Ashokan
PO57. Effect of flow field on polymer chain scission in extensional and turbulent flows. S. A. Vanapalli, M. T. Islam and M. Solomon
PO58. Molecular dynamics of a polymer tethered to a solid surface in a flow. Y. Gratton and G. W. Slater
PO59. Tensile properties and structure of topological gel: Molecular dynamics study. F. Sawa, T. Okamoto, T. Aoyagi, J.-I. Takimoto and M. Doi
PO60. Multi-decade viscosity analyses during chemical and thermoreversible gelation, using Brookfield viscometers or rheometers and a novel control algorithm. D. J. Moonay
PO64. Evaluation of the variability of the WLF constants of extruded soy flour with the extent of cooking. B. K. Ashokan and J. L. Kokini
PO65. Interfacial rheology system for a commercial rheometer. E. F. Brown
Social Program

Sunday, October 12  
**Welcoming Reception**  
7:00 PM – 9:00 PM  
Reflections/Waterfront (Sheraton)

Monday, October 13  
**Awards Reception**  
7:00 PM – 8:00 PM  
Reflections/Waterfront (Sheraton)  
*Sponsored by a generous contribution from Thermo Electron Corporation*

**Awards Banquet**  
8:00 PM  
Admiral (Sheraton)

Tuesday, October 14  
**Business Meeting**  
5:30 PM  
Grand Station III (Sheraton)  
**Tuesday Night Reception** (River Cruise)  
7:00 PM  
Gateway Clipper Docks  
*Sponsored by a generous contribution from TA Instruments*

Wednesday, October 15  
**Poster Session Refreshments**  
6:00 PM – 8:00 PM  
Reflections/Waterfront (Sheraton)  
*Sponsored by a generous contribution from Paar Physica USA*