



The Society of Rheology 90th Annual Meeting

Westin Galleria Houston, Houston, Texas

Meeting Schedule

Monday, October 15, 2018

	<i>GLI</i>	<i>PZ1</i>	<i>BL</i>	<i>PO</i>	<i>SF</i>	<i>TG</i>	<i>PZ2</i>
8:30			W. Poon (PL1) - <i>GLI</i>				
9:20			Coffee Break				
9:50	SC1	FC1*	AM1	PS1	ET1	BA1	FP1
10:15	SC2	FC2	AM2	PS2	ET2	BA2	FP2
10:40	SC3	FC3	AM3	PS3	ET3	BA3	FP3
11:05	SC4	FC4		PS4	ET4	BA4	FP4
11:30	SC5	FC5	AM5	PS5	ET5		FP5
11:55			Lunch Break / Student-Industry Forum				
1:30	SC6	FC6	AM6	PS6	ET6	BA6	FP6*
1:55	SC7	FC7	AM7	PS7	ET7	BA7	FP7
2:20	SC8	FC8	AM8	PS8	ET8	BA8	FP8
2:45	SC9	FC9	AM9	PS9	ET9	BA9	FP9
3:10			Coffee Break				
3:45	SC10	FC10	AM10	PS10	ET10*	BA10	FP10
4:10	SC11	FC11	AM11	PS11	ET11	BA11	FP11
4:35	SC12	FC12	AM12	PS12	ET12	BA12	FP12
5:00	SC13	FC13	AM13		ET13	BA13	FP13
5:25			End				
6:30			Monday Evening Reception				

Tuesday, October 16, 2018

	<i>GLI</i>	<i>PZ1</i>	<i>BL</i>	<i>PO</i>	<i>SF</i>	<i>TG</i>	<i>PZ2</i>
8:30			M. Rubinstein (PL2) - <i>GLI</i>				
9:20			Coffee Break				
9:50	SC14	PM1	AM14*	PS14	DA1	BA14	NF1
10:15	SC15	PM2	AM15	PS15	DA2	BA15	NF2
10:40	SC16	PM3	AM16	PS16	DA3	BA16	NF3
11:05	SC17	PM4	AM17	PS17	DA4	BA17	NF4
11:30	SC18	PM5		PS18	DA5	BA18	NF5
11:55			Lunch Break / Society Business Meeting				
1:30	SC19	PM6	PG1	PS19*	DA6	BA19	NF6
1:55	SC20	PM7	PG2	PS20	DA7	BA20	NF7
2:20	SC21	PM8	PG3	PS21	DA8	BA21	NF8
2:45	SC22	PM9	PG4	PS22		BA22	NF9
3:10			Coffee Break				
3:45	SC23	PM10	PG5	PS23	DA9*	FE1	NF10
4:10	SC24	PM11	PG6	PS24	DA10	FE2	NF11
4:35	SC25	PM12	PG7		DA11	FE3	NF12
5:00	SC26	PM13	PG8			FE4	NF13
5:25			End				
7:00			Awards Reception				
8:00			Awards Banquet				

Wednesday, October 17, 2018

	<i>GLI</i>	<i>PZ1</i>	<i>BL</i>	<i>PO</i>	<i>SF</i>	<i>TG</i>	<i>PZ2</i>
8:30			L. M. Walker (PL3) - <i>GLI</i>				
9:20			Coffee Break				
9:50	SC27*	PM14	PG9	SG1	ET14	FE5	NF14*
10:15	SC28	PM15	PG10	SG2	ET15	FE6	NF15
10:40	SC29	PM16	PG11	SG3	ET16	FE7	NF16
11:05	SC30	PM17	PG12	SG4	ET17	FE8	NF17
11:30	SC31	PM18	PG13	SG5	ET18	FE9	NF18
11:55			Lunch Break				
1:30	SC32	PM19*	PG14	SG6	ET19	FE10	NF19
1:55	SC33	PM20	PG15	SG7	ET20	FE11	NF20
2:20	SC34	PM21	PG16	SG8	ET21	FE12	NF21
2:45	SC35	PM22	PG17	SG9	ET22	FE13	NF22
3:10			Coffee Break				
3:45	SC36	PM23	PG18*	SG10	ET23	FE14	NF23
4:10	SC37	PM24	PG19	SG11	ET24	FE15	NF24
4:35	SC38	PM25	PG20	SG12	ET25	FE16	NF25
5:00	SC39	PM26		SG13	ET26	FE17	NF26
5:25			End				
6:30			Poster Session & Reception				
6:30			Gallery of Rheology Contest				

Thursday, October 18, 2018

	<i>GLI</i>	<i>PZ1</i>	<i>BL</i>	<i>PO</i>	<i>SF</i>	<i>TG</i>	<i>PZ2</i>
8:00			T. Divoux (AP1) - <i>GLI</i>				
8:40	SC40	PM27	PG22	SG14*	ET27	FE18	NF27
9:05	SC41	PM28	PG23	SG15	ET28	FE19	NF28
9:30	SC42	PM29	PG24	SG16	ET29	FE20	NF29
9:55			Coffee Break				
10:25	SC43	PM30	PG25	SG17	ET30	FE21	NF30
10:50	SC44	PM31	PG26		ET31	FE22	NF31
11:15	SC45	PM32				FE23	NF32
11:40		PM33					NF33
12:05			End				

Session and Room Codes

AM = Additive Manufacturing

AP = Award Presentations

BA = Biological and Active Matters

DA = Design of Applied Materials

ET = Advanced Experimental

Techniques/Methods in Rheology

FC = Flow Assurance of Crude Oil &

Derivatives

FE = Foams, Emulsions & Interfacial

Rheology

FP = Food, Pharmaceuticals & Cosmetics

NF = Non-Newtonian Fluid Mechanics & Flow

Instabilities

PG = Polyelectrolytes, Self-assembling
Systems & Gels

PL = Plenary Lectures

PM = Polymer Melts: From Molecular

Rheology to Processing

PS = Polymers in Solution

SC = Suspensions & Colloids

SG = Solids, Composites & Granular

Materials

* = Keynote

BL = Bellaire

GLI = Galleria I

PO = Post Oak

PZ1 = Plaza I

PZ2 = Plaza II

SF = San Felipe Room

TG = Tanglewood

W23 = Woodway II/III

WF = Woodway Foyer

Monday, October 15

Morning

8:30	PL1. Shear thickening in the real world: The application of suspension rheology to industrial processes. <i>W. Poon</i> Galleria I						
9:20	COFFEE BREAK						
	Galleria I Suspensions & Colloids	Plaza I Crude Oil & Derivatives	Bellaire Additive Manufacturing	Post Oak Polymers in Solution	San Felipe Room Advanced Technique/Method	Tanglewood Biological & Active Matters	Plaza II Food, Pharma. & Cosmetics
9:50	SC1. Dynamics of ultrasoft microgels. <i>M. Mattiello, S. Goujard and M. Cloitre</i>	FC1* . The role of rheology in the O&G flow assurance discipline: Eni's experiences. <i>A. G. Di Lullo</i>	AM1. Rheology of thermotropic liquid crystalline polymers for generating high-performance strands for use in fused filament fabrication. <i>M. O. Ansari and D. G. Baird</i>	PS1. Rheological scaling of polymerized ionic liquids: From salt-free to ion condensed solutions. <i>A. Matsumoto, F. D. Giudice, R. Rotratanadumrong and A. Q. Shen</i>	ET1. Using rheo-microscopy to directly correlate structural and mechanical aging in a thermoreversible colloidal gel. <i>T. Nguyen and M. E. Helgeson</i>	BA1. High throughput microfluidic characterization of cell rheology. <i>S. M. Ahmmed and S. A. Vanapalli</i>	FP1. Frictional and rheological behavior of multicomponent self-assembled gels. <i>B. V. Farias and S. A. Khan</i>
10:15	SC2. The hydrodynamics of the colloidal glass transition. <i>R. N. Zia, J. Wang, G. B. McKenna, X. Peng and Q. Li</i>	FC2. Rheology of THF hydrate slurries. <i>P. H. de Lima Silva, M. F. Naccache and P. R. de Souza Mendes</i>	AM2. Modelling polymer melt behaviour during fused filament fabrication. <i>C. McIlroy, R. S. Graham and P. D. Olmsted</i>	PS2. Universal scaling and the characterisation of gelation in associative polymer solutions. <i>A. Santra and R. Prakash</i>	ET2. Applications of a new shear-induced polarized light imaging (SIPLI) technique. <i>J. Laeuger and L. Voelker-Pop</i>	BA2. Rheological characterization of dynamic re-engineering of the pericellular region by human mesenchymal stem cell-secreted enzymes. <i>M. Daviran, S. M. Longwill, J. F. Casella and K. Schultz</i>	FP2. Characterizing wear behaviors of casein gels by kernel-based modeling. <i>J. Tan and H. S. Joyner</i>
10:40	SC3. Experimental observation of strongly heterogeneous displacements at the depinning transition in a colloidal glass. <i>N. Senbil, M. Gruber, C. Zhang, M. Fuchs and F. Scheffold</i>	FC3. Controlled formation and aggregation of hydrate suspensions. <i>M. Geri, K. Sambath, R. Venkatesan and G. H. McKinley</i>	AM3. Rheological and heat transfer effects in thermoplastic extrusion additive manufacturing. <i>D. D. Phan, Z. R. Swain and M. E. Mackay</i>	PS3. Elasto-capillary flow of dilute solutions of associative polymers. <i>E. Pashkovski, R. Patterson and D. Nickerson</i>	ET3. Digital holographic rheology of complex fluids. <i>S. Gupta and S. A. Vanapalli</i>	BA3. Measurement of strength and viscoelasticity of mammalian tissues by dynamic oscillatory rheology. <i>R. D. Corder, R. B. Vachieri, D. K. Taylor, J. M. Fleming, F. L. Jayes and S. A. Khan</i>	FP3. Effects of hydrocolloids, acids and nutritional supplements on gelatin network in gummies. <i>H. Ge and E. Shneyvas</i>
11:05	SC4. Microstructure and rheology of associative soft particles glasses. <i>F. Khabaz, M. Mattiello, M. Cloitre and R. T. Bonnecaze</i>	FC4. The influence of the cooling rate on the yielding of gelled waxy oil. <i>C. O. Negrão, D. E. Andrade and M. A. Marcelino Neto</i>		PS4. Intermolecular association in the in-situ formed physically cross-linked poly(vinyl alcohol) cryogels. <i>N. Joshi and Y. M. Joshi</i>	ET4. A simple shear cell for direct microstructural characterization of step-stress deformation in soft materials. <i>C. K. Hubert, B. Rajaram and A. Mohraz</i>	BA4. Constitutive modelling of human skin. <i>J. Soetens, G. Peters and C. Oomens</i>	FP4. Microrheological characterization of covalent adaptable hydrogels for applications in oral drug and nutrient delivery. <i>N. Wu and K. Schultz</i>
11:30	SC5. Binary colloidal glasses: Linear viscoelasticity and its link to local structure and dynamics. <i>G. Petekidis, T. Sentjabrskaja, A. R. Jacob, M. Laurati, S. U. Egelhaaf and T. Voigtmann</i>	FC5. Effect of gap thickness on rheological behavior of thin bituminous films. <i>K. Suman, S. Bhattacharya and Y. M. Joshi</i>	AM5. Molecular weight dependence of weld formation in material extrusion additive manufacturing. <i>J. E. Seppala and K. Migler</i>	PS5. Transport of interacting nanoparticles in complex polymeric solutions. <i>R. Poling-Skutvik, A. Slim, R. Krishnamoorti and J. C. Conrad</i>	ET5. High speed confocal microscopy of sheared colloidal gels. <i>G. Colombo and J. Vermant</i>		FP5. The gluten is for stretch, but the bubbles define the elasticity of bread doughs. <i>S. Chakrabarti-Bell</i>
11:55	LUNCH BREAK / STUDENT-INDUSTRY FORUM Monarch Room, 12:00-1:15 pm						

Afternoon

	Galleria I Suspensions & Colloids	Plaza I Crude Oil & Derivatives	Bellaire Additive Manufacturing	Post Oak Polymers in Solution	San Felipe Room Advanced Technique/Method	Tanglewood Biological & Active Matters	Plaza II Food, Pharma. & Cosmetics
1:30	SC6. Comparing the response of colloidal glasses to transient stress- and strain-controlled shear. <i>M. Laurati, T. Sentjabrskaja, J. Hendricks, A. R. Jacob, G. Petekidis and S. U. Egelhaaf</i>	FC6. Kinetic and thermodynamic stability of surfactant stabilized water-in-diesel emulsion fuels. <i>P. Rastogi, N. S. Kaisare and B. G. Madivala</i>	AM6. From liquid ink to solid object: Tailoring the microstructure of additively manufactured freeform macrostructures through extensional rheology-mediated extrusion. <i>C. E. Owens, A. J. Hart and G. H. McKinley</i>	PS6. Assessment of the evaporation-induced strength development of polymer solutions used for membrane applications: A shear rheometry protocol. <i>E. A. Caicedo-Casso and K. Erk</i>	ET6. Using extensional viscosity to determine the length (or molecular weight) of rod-like molecules, and its importance in studying the phase behavior of carbon nanotube solutions. <i>M. Pasquali, D. E. Tsentalovich, A. Ma, J. A. Lee, N. Behabtu, E. A. Bengio, R. J. Headrick, M. J. Green and I. Talmon</i>	BA6. Effect of surfactant size on the development of pellicles. <i>L. Qi and G. F. Christopher</i>	FP6*. Creating stable colloidal systems using insoluble fiber networks. <i>R. Clark</i>

1:55	SC7. The transient behavior of soft glassy materials far from equilibrium. <i>J. D. Park and S. A. Rogers</i>	FC7. Role of interfacial rheology on the flow of pickering emulsions through a constriction. <i>I. Sinha and G. F. Christopher</i>	AM7. Simulation of rheological effects in processing during material extrusion. <i>J. S. Horner, D. D. Phan, K. Coasey, A. N. Beris and M. E. Mackay</i>	PS7. Tailoring pore morphology in the polymer films fabricated via dry cast phase separation technique. <i>R. Pervin and B. Gudappa</i>	ET7. Measurement of the steady-state extensional viscosity of a linear polymer solution using a differential pressure extensional rheometer on a chip. <i>S. G. Kim, C. M. Ok and H. S. Lee</i>	BA7. Characterization of dual-species biofilm of <i>Bacillus licheniformis</i> and <i>Pseudomonas fluorescens</i> at the air-liquid interface. <i>C. Abriat, M.-C. Heuzey, N. Virgilio and F. Daigle</i>	FP7. Modeling the effects of fat type and crystallization conditions on the wear behaviors of solid fats. <i>J. Tan and H. S. Joyner</i>
2:20	SC8. Meso-scale model of a soft glassy material under oscillatory shear. <i>C. E. Maloney, K. Khirallah, B. Tyukodi and D. Vandembroucq</i>	FC8. Pore blockage by emulsion injection in a microfluidic porous media. <i>G. Cruz, J. Avendaño and M. S. Carvalho</i>	AM8. Nonisothermal welding in fused filament fabrication. <i>K. Coasey, K. R. Hart, E. Wetzal, D. Edwards and M. E. Mackay</i>	PS8. Temperature and concentration behavior of the viscosity of lubricating oil-polymer viscosity index improvers: Thermodynamic (TV ^T) scaling versus T-T _g scaling. <i>S. Cheng and G. B. McKenna</i>	ET8. Liquid-liquid interface capillary breakup extensional rheometry. <i>C. Clasen, S. Formenti, K. Verbeke, N. K. Reddy, C. Mitrias, P. D. Anderson and F. Briatico Vangosa</i>	BA8. Viscosity of confined bacterial suspensions. <i>Z. Liu, S. Narayan, C. S. Dutcher, K. Zhang and X. Cheng</i>	FP8. Micromechanical characterization of edible capsules with finite shell thickness. <i>A. Kamble, A. Xu, M. Michelon, B. C. Leopércio, M. S. Carvalho and J. M. Frostad</i>
2:45	SC9. Relationship between dynamical heterogeneity and rheology of soft particle glasses. <i>F. Khabaz, M. Cloitre and R. T. Bonnecaze</i>	FC9. The effect of demulsifiers in heavy oil production. <i>M. J. Moura, B. C. Talita, D. Maza, B. C. Leopércio, F. S. Soares, P. R. Souza Mendes and M. S. Carvalho</i>	AM9. Welding of 3D printed carbon nanotube-polymer composites by locally induced RF heating. <i>M. J. Green, C. B. Sweeney and M. A. Saed</i>	PS9. Entangled polymer chains relax via dynamically heterogeneous pathways. <i>Y. Zhou and C. M. Schroeder</i>	ET9. Dielectric RheoSANS: A technique for the simultaneous interrogation of the electrical, mechanical and structure properties of soft matter. <i>J. J. Richards, J. K. Riley, P. D. Butler and N. J. Wagner</i>	BA9. Symmetric shear banding and swarming vortices in bacterial "superfluids". <i>X. Cheng, S. Guo, D. Samanta, Y. Peng and X. Xu</i>	FP9. Rheology and molecular interactions in therapeutic protein solutions. <i>E. M. Furst and M. A. Woldeyes</i>
3:10	COFFEE BREAK						
3:45	SC10. Microstructure of sheared soft particles glasses near walls. <i>T. Liu, R. T. Bonnecaze and M. Cloitre</i>	FC10. Dense suspensions of hollow glass beads in a shear thinning fluid. <i>J. P. Singh and R. G. Morgan</i>	AM10. Selective laser sintering of polymer particle pairs studied by in-situ visualization. <i>P. Hejmady, R. Cardinalis, L. van Breemen and P. D. Anderson</i>	PS10. Nonhomogeneous flows during startup shear of highly entangled polystyrene solutions. <i>M. C. Burroughs, M. E. Helgeson and L. G. Leal</i>	ET10*. Combining time-resolved rheo-SANS and rheo-SAXS to study molecular and crystal alignment of highly-entangled α -olefin molecular bottlebrushes during uniaxial deformation. <i>C. López-Barrón</i>	BA10. Controlling the microscopic dynamics and rheology of colloidal gels with active motion. <i>M. E. Szakasits, K. T. Saud and M. J. Solomon</i>	FP10. eCapillary: A disposable microfluidic extensional viscometer. <i>N. S. Suteria, S. Baier and S. A. Vanapalli</i>
4:10	SC11. Oscillatory and history-dependent dynamics of shear banding in a thixotropic yield-stress fluid. <i>Y. Wei, M. J. Solomon and R. G. Larson</i>	FC11. Microstructure and rheological characteristics of asphalt binders. <i>L. Shan, N. J. Wagner, Z. Li, H. He and R. Xie</i>	AM11. A comparison of the cold spray deposition process to micro-ballistic single particle impact experiments for polymer powders. <i>Z. Khalkhali, W. Xie, J.-H. Lee and J. Rothstein</i>	PS11. Conformational averaging as a route to incorporating hydrodynamic interactions into simulations of dilute and semidilute polymers. <i>C. E. Sing and C. D. Young</i>	ET11. Probing nanostructure under controlled complex deformations with neutron scattering in a fluidic four-roll mill. <i>P. T. Corona, N. Ruocco, K. M. Weigandt, L. G. Leal and M. E. Helgeson</i>	BA11. Scaling theory for athermal fiber networks. <i>J. Shivers, S. Arzash, A. Sharma and F. C. MacKintosh</i>	FP11. Production of monodispersed microcapsules for food applications using microfluidics. <i>M. Michelon, B. C. Leopércio and M. S. Carvalho</i>
4:35	SC12. Dynamics and reversibility of attractive colloidal dispersions: Influence of matrix viscoelasticity. <i>R. Massaro, G. Colombo, C. Clasen, J. Vermant and P. Van Puyvelde</i>	FC12. Displacing viscous heavy oil via emulsification with alkali-surfactant foam in micromodels. <i>E. D. Vavra, M. Puerto, G. J. Hirasaki and S. L. Biswal</i>	AM12. Computational modeling of the selective laser sintering process. <i>C. Balemans, M. A. Hulsen and P. D. Anderson</i>	PS12. Brownian dynamics simulations of semidilute polymer solutions in extensional flow. <i>C. D. Young and C. E. Sing</i>	ET12. Simultaneous slit rheology and structural characterization with small angle neutron scattering. <i>K. M. Weigandt, J. Weston and S. Hudson</i>	BA12. Competition between motor and Brownian forces in active gels. <i>A. Córdoba</i>	FP12. Investigating cocoa butter polymorph formation through in situ rheology and Raman spectroscopy. <i>N. C. Crawford, M. Ibrahim and R. Chen</i>
5:00	SC13. Diffusion and equilibrium structure of polydisperse colloidal suspensions confined by a spherical cavity. <i>E. Gonzalez, C. Aponte-Rivera and R. N. Zia</i>	FC13. Optical and rheological analysis of waxy crude oils microstructure: Applications to flow assurance control. <i>C. Carillo, S. Coppola and S. Caserta</i>	AM13. Quantification of isothermal crystallization of polyamide 12: Modelling of crystallization kinetics and phase composition. <i>F. Paolucci and G. Peters</i>		ET13. Elastic particle deformation in rectangular channel flow as a measure of particle stiffness. <i>M. Y. Hwang, S. G. Kim, H. S. Lee and S. J. Muller</i>	BA13. Fundamental principles behind the emergence of contractility in acto-myosin networks. <i>G. Papoian</i>	FP13. Fourier transform rheology of acrylate copolymer dispersion in thermoplastic elastomer. <i>M. Hasebe, N. Biderman and H. Bui</i>
5:25	END						
6:30	MONDAY EVENING RECEPTION Saint Arnold Brewing Company, until 9:30 pm						

Tuesday, October 16

Morning

PL2. Rheology of ring polymer melts. *M. Rubinstein, T. Ge, S. Panyukov, G. S. Grest and D. Vlassopoulos* (Bingham Lecture) Galleria I

8:30

9:20

COFFEE BREAK

	<i>Galleria I</i> Suspensions & Colloids	<i>Plaza I</i> Polymer Melts	<i>Bellaire</i> Additive Manufacturing	<i>Post Oak</i> Polymers in Solution	<i>San Felipe Room</i> Design of Applied Materials	<i>Tanglewood</i> Biological & Active Matters	<i>Plaza II</i> Non-Newtonian Fluid Mech.
9:50	SC14. Thermal processing of colloidal gels: Kinetics of quenching, coarsening and arrest. <i>M. E. Helgeson, T. Nguyen, P. Padmanabhan and R. N. Zia</i>	PM1. Microscopic theory of rheology and tube field instabilities of polymer liquids under continuous uniaxial extension. <i>K. Schweizer and S. Xie</i>	AM14* . Concentrated suspensions for 3D printing. <i>D. Lootens</i>	PS14. Impact of molecular weight distribution in developing crystalline morphology of gel-spun UHMWPE fibers. <i>C. K. Henry, G. R. Palmese and N. J. Alvarez</i>	DA1. Viscosities in coatings industry: Shear vs. extension. <i>Y. Wang and H. Sun</i>	BA14. Transient modeling of viscoelasticity, thixotropy, and flow inhomogeneities (syneresis) in human blood rheology. <i>J. S. Horner, A. N. Beris and N. J. Wagner</i>	NF1. Wormlike micelle instabilities: Rheology fundamentals. <i>L. Pinaud, P. Herve and G. Ovarlez</i>
10:15	SC15. Flow and structure during drying of colloid-polymer thin films. <i>J. F. Gilchrist and T. Kaewpetch</i>	PM2. Examining the nature of melt stretching of entangled melts. <i>Z. Zhao and S.-Q. Wang</i>	AM15. Structure-mechanical property relationship in UV-cured acrylate systems. <i>R. Anastasio, R. Cardinaels, G. Peters and L. van Breemen</i>	PS15. Dripping-onto-substrate (DoS) extensional rheometry of low-viscosity printing inks: Effect of varying concentration and molecular weight of the polymer binders. <i>S. Sur, M. Rosello and J. Rothstein</i>	DA2. Characterizing and designing printability, spinnability, jettability, sprayability or stickiness of complex fluids and soft materials. <i>Y. Sharma, J. Dinic, L. N. Jimenez and C. Martinez</i>	BA15. Contemporary modeling and analysis of human blood rheology with recently developed models, experimental and analysis techniques. <i>M. J. Armstrong, N. J. Wagner, A. N. Beris, J. S. Horner, T. Hill and C. Keith</i>	NF2. Effect of varying fluid rheology on viscoelastic fluid-structure interactions between a flexible cylinder and wormlike micelle solution. <i>A. Dey, Y. Modarres-Sadeghi and J. Rothstein</i>
10:40	SC16. Rheological properties of aqueous suspensions of cellulose nanocrystals modified by polyethyleneimine. <i>D. Khandal, J. R. Tavares, M.-C. Heuzey and P. J. Carreau</i>	PM3. A coil-stretch transition in planar elongational flow of an entangled polymeric melt. <i>M. H. Nafar Sefiddashti, B. J. Edwards and B. Khomami</i>	AM16. Direct write of UV curable polymer-bonded magnets. <i>A. Shen, A. Ma, S. Dardona and C. Bailey</i>	PS16. Stretched polymer physics, pinch-off dynamics and printability of polymer solutions. <i>J. Dintic, M. Biagioli and V. Sharma</i>	DA3. Inverse problems in linear viscoelastic material design. <i>R. E. Corman, J. Vermant and R. H. Ewoldt</i>	BA16. Swimming to stability: Activity-doped colloidal gels. <i>A. K. Omar, Y. Wu, Z.-G. Wang and J. F. Brady</i>	NF3. Sphere sedimentation in wormlike micelles: The role of relaxation spectrum and extensional gradients. <i>S. Wu and H. Mohammadigoushki</i>
11:05	SC17. Shear-induced microstructural gradients in colloidal gels for composite hydrogel fibers. <i>E. D. Cardenas-Vasquez and L. C. Hsiao</i>	PM4. What is the microscopic origin of stress in entangled polymer melts? <i>W.-S. Xu, C. Lam, J.-M. Carrillo, B. Sumpter and Y. Wang</i>	AM17. Multimaterial 3D printing of silica-titania glass: Predictive tuning of suspension rheology. <i>N. Dudukovic, L. Wong, D. Nguyen, J. Destino, T. Yee, F. Ryerson, T. Suratwala, E. Duoss and R. Dylla-Spears</i>	PS17. Effect of fluid contact angle on filament thinning and break-up of high surface tension polymer solutions in extension. <i>R. Neelakantan, J. Unidat, E. Karatay, E. Cocker, P. Ramesh and D. Johnson</i>	DA4. Field-sensitivity of flow predictions to rheological parameters. <i>J. B. Freund, J. Kim and R. H. Ewoldt</i>	BA17. Continuum modeling of nanoparticles transport in vivo through bifurcations. <i>R. R. Rao, J. Clausen, D. S. Bolintineanu, J. Wagner, K. Butler, R. Martin, Z. Liu and C. Aidun</i>	NF4. Effect of confinement on velocity profiles in pressure driven flow of wormlike micelle solutions. <i>P. F. Salipante and S. Hudson</i>
11:30	SC18. Telechelic Star Polymers as models for soft-patchy colloids with tunable rheology. <i>E. Moghimi, D. Vlassopoulos, C. Likos and N. Hadjichristidis</i>	PM5. Unraveling dynamics of entangled polymers in strong extensional flows: An alternative to the tube model. <i>S. Moghadam and R. G. Larson</i>		PS18. Extensional flow behavior of methylcellulose solutions containing fibrils. <i>S. Morozova, P. W. Schmidt, A. E. Metaxas, F. S. Bates, T. P. Lodge and C. S. Dutcher</i>	DA5. Deciphering the adhesive properties of mussel-inspired metal-coordinate physical gels. <i>E. Lai, B. Keshavarz and N. Holten-Andersen</i>	BA18. Mechanical shape programming of double network liquid crystal elastomers. <i>M. G. Barnes and R. Verduzco</i>	NF5. Transient evolution of shear bands in a model wormlike micellar solutions. <i>A. Dalili and H. Mohammadigoushki</i>
11:55			LUNCH BREAK / SOCIETY BUSINESS MEETING Galleria Ballroom I, 12:00-1:30 pm				

Afternoon

	<i>Galleria I</i> Suspensions & Colloids	<i>Plaza I</i> Polymer Melts	<i>Bellaire</i> Polyelectrolytes & Gels	<i>Post Oak</i> Polymers in Solution	<i>San Felipe Room</i> Design of Applied Materials	<i>Tanglewood</i> Biological & Active Matters	<i>Plaza II</i> Non-Newtonian Fluid Mech.
1:30	SC19. Shear-tunable colloidal gels with embedded granular particles. <i>Y. Jiang, J. Royer and W. Poon</i>	PM6. Rheology of molten polyolefin interfaces: Slip in shear, strain hardening in extension. <i>A. M. Jordan, K. Kim, B. Lee, E. Ludtke, F. S. Bates, C. W. Macosko and O. Lhost</i>	PG1. Gelation mechanism of tri- and penta-block copolymers in the presence of small molecules. <i>M. A. Calabrese, R. Yang, B. D. Olsen and D. S. Kohane</i>	PS19* . Rheology of particle-laden polymeric fluids: A perspective from the order of addition. <i>H. Sun</i>	DA6. Development of a shear-thickening fluid for use in space suits for low-Earth orbit and the lunar and Martian surfaces. <i>M. Katzarova, R. D. Dombrowski and N. J. Wagner</i>	BA19. Propulsion of catalytic Janus spheres in viscosified solutions. <i>P. T. Underhill, P. Chatterjee and E. M. Tang</i>	NF6. Consequences of the mobility of particles in viscoelastic shear flow. <i>E. G. Shaqfeh, A. Zhang, W. L. Murch and E. Jonas</i>
1:55	SC20. Colloidal elasticity arises from packing of locally glassy clusters. <i>J. Swan, Z. Varga, E. M. Furst, M. J. Solomon, L. C. Hsiao and K. Whitaker</i>	PM7. Elongational rheology of unentangled polystyrene and poly(tert-butyl styrene) melts. <i>H. Watanabe and Y. Matsumiya</i>	PG2. Surfactant-activated microgels: A pathway to viscoplastic gels. <i>S. Goujard, C. Locatelli-Champagne, J.-M. Suau and M. Cloitre</i>	PS20. Shear rheology of carbon nanotubes in chlorosulfonic acid. <i>I. Rosa de Siqueira, O. S. Dewey, L. W. Taylor, E. A. Bengio and M. Pasquali</i>	DA7. Rheology of suspension and particles interactions. <i>W. Chèvrement, H. Bodiguel and B. Chareyre</i>	BA20. Mixing of active suspensions in chaotic flow. <i>B. C. Blackwell, B. Qin and P. E. Arratia</i>	NF7. Dynamics and rheology of particles in shear-thinning fluids. <i>C. Datt, S. A. Abtahi and G. Elfring</i>

2:20	SC21. Dynamics and flow instabilities in sheared colloidal rod gels. <i>M. Das and G. Petekidis</i>	PM8. Interdiffusion of two molten polystyrenes under SAOS. <i>W. Nakhle, P. M. Wood-Adams and M.-C. Heuzey</i>	PG3. Longtime viscoelasticity of soft bottlebrush gels. <i>L. Cai</i>	PS21. Rheology of dry native cellulose in solution with ionic liquids. <i>N. W. Utomo, B. Nazari, S. Mony, P. Jain, I. Saifuddin and R. H. Colby</i>	DA8. High shear rheology of silica slurries. <i>E. Akbari Fahkrabadi and M. W. Liberatore</i>	BA21. Silk: A natural example of a sticky entangled polymer. <i>C. Schaefer, P. R. Laity, C. Holland and T. C. McLeish</i>	NF8. Viscoelastic ordering of particles in a straight microfluidic channel. <i>F. Del Giudice, G. D'Avino, F. Greco, A. Q. Shen and P. L. Maffettone</i>
2:45	SC22. Controlling the rotational dynamics of semiflexible colloidal chains. <i>S. Kuei and S. L. Biswal</i>	PM9. Determining the dilution exponent for 1,4-polybutadienes using blends of entangled monodisperse star with unentangled, low molecular weight linear polymers. <i>R. Hall, B. Kang, S. Lee, T. Chang, D. Venerus, N. Hadjichristidis, J. Mays and R. G. Larson</i>	PG4. Signatures of physical aging in Carbopol microgel. <i>M. Agarwal and Y. M. Joshi</i>	PS22. Rheology of linear/circular DNA mixtures in the linear entanglement regime. <i>D. Kong, S. Banik, M. J. San Francisco, R. M. Robertson-Anderson and G. B. McKenna</i>		BA22. Fully-resolved simulation of undulatory swimming of <i>C. elegans</i> in viscoelastic fluids via the immersed boundary technique. <i>C. Guido, J. Binaglia and E. G. Shaqfeh</i>	NF9. Steady viscoelastic flow around high-aspect-ratio, low-blockage-ratio microfluidic cylinders. <i>S. J. Haward, K. Toda-Peters and A. Q. Shen</i>
3:10	COFFEE BREAK						
3:45	SC23. Nonlinear viscoelasticity of a dilute suspension of Brownian spheroids in oscillatory shear flow. <i>T. M. Bechtel and A. S. Khair</i>	PM10. Mobility of polymer-tethered nanoparticles in unentangled polymer melts. <i>T. Ge and M. Rubinstein</i>	PG5. Characterization of the change in rheological properties of a fibrous colloidal gel due to consecutive phase transitions and sample preparation. <i>M. Wehrman, S. Lindberg and K. Schultz</i>	PS23. Direct observation of ring polymer dynamics in semi-dilute solutions: Coupling of molecular topology and interchain interactions. <i>Y. Zhou, K. Regan, D. Kong, S. Banik, R. M. Robertson-Anderson, G. B. McKenna and C. M. Schroeder</i>	DA9*. Triggering microstructural changes in complex fluids: Two industry-academia partnerships. <i>S. Lindberg, P. Stenger, K. Schultz, M. Wehrman, K. Erk, C. Martinez and J. Howarter</i>	FE1. Confined bubble flow through suspensions of surface active particle-surfactant complexes. <i>C. C. Sharkey, Z. Cui and S. Anna</i>	NF10. Elasto-inertial turbulence: Reentrant transition and connection to linear mechanisms. <i>A. Shekar, R. McMullen, S.-N. Wang, B. McKeon and M. D. Graham</i>
4:10	SC24. LAOS response of the rigid-rod model in nematic regime. <i>M. De Corato and G. Natale</i>	PM11. A simple constitutive model for polymer blends: Predictions and experimental comparisons for viscometric and non-viscometric flows. <i>J. D. Peterson, V. Boudara, D. J. Read, C. Sasmal and L. G. Leal</i>	PG6. The role of network topology in soft gels. <i>M. Bantawa, M. Bouzid and E. Del Gado</i>	PS24. Uniaxial extension of entangled polymer solutions. <i>J. Liu, Y. Feng and S.-Q. Wang</i>	DA10. Tuning process parameters to optimize carbon nanotube fibers for high performance conductors. <i>L. W. Taylor, O. S. Dewey and M. Pasquali</i>	FE2. Role of interfacially adsorbed particles in the rheology of solid-stabilized emulsions. <i>M. Kaganyuk and A. Mohraz</i>	NF11. Vortex dynamics for high levels of polymer drag reduction: Quantitative analysis enabled by a new vortex-tracking algorithm. <i>L. Zhu and L. Xi</i>
4:35	SC25. Short and soft nanocylinders: Multi-domain structure and tunable rheology. <i>D. Parisi, Y.-B. Ruan, C.-Y. Liu, B. Loppinet and D. Vlassopoulos</i>	PM12. Computer simulations and experimental measurements of extrudate swell for linear polystyrenes. <i>B. Robertson, T. C. McLeish and R. L. Thompson</i>	PG7. Tuning the structure and rheology of nanoemulsion colloidal gels through screening of electrostatic interactions and thermoresponsive polymer bridging. <i>L.-C. Cheng, S. L. K. Vehusheia and P. S. Doyle</i>		DA11. Characterizing the weakly elastic rheological behaviors of automotive lubricants through an improved capillary breakup extensional rheometer. <i>J. Du, H. Ohtani, G. H. McKinley and K. Ellwood</i>	FE3. Engineering the mechanical properties of oil-water interfaces using nanoparticle surfactants. <i>A. Toor, J. Forth, S. Bochner de Araujo, M. Consiglia Merola, Y. Jiang, Y. Chai, P. D. Ashby, G. G. Fuller and T. Russell</i>	NF12. Common features between the Newtonian transition to turbulence and the viscoelastic drag reducing turbulence. <i>A. S. Pereira, R. L. Thompson and G. Mompean</i>
5:00	SC26. Dynamics and rheology of suspensions of particles with arbitrary shapes. <i>M. Tan and T. W. Walker</i>	PM13. Nonlinear shear rheometry of melts and concentrated solutions of polymers with varying molecular structure. <i>S. Costanzo, D. Parisi and D. Vlassopoulos</i>	PG8. From well-entangled to partially-entangled wormlike micelles: A characterization by rheological modeling, diffusing wave spectroscopy, and small-angle neutron scattering. <i>W. Zou, G. Tan, H. Jiang, K. Vogtt, M. R. Weaver, P. Koenig, G. Beaucage and R. G. Larson</i>			FE4. Dual color Bessel beam microscopy to measure absolute three phase contact angle of microparticles. <i>A. Islam, G. F. Christopher and C. Snoeyink</i>	NF13. Plant sourced biopolymers for turbulent drag reduction. <i>A. Rajappan and G. H. McKinley</i>

END

AWARDS RECEPTION Galleria Ballroom Foyer, until 8 pm

AWARDS BANQUET Monarch Room

Wednesday, October 17

Morning

8:30	PL3. Connecting rheology to nanoscale structure of block copolymer micelle liquid crystals and nanocomposites. <i>L. M. Walker</i> Galleria I						
9:20	COFFEE BREAK						
	Galleria I Suspensions & Colloids	Plaza I Polymer Melts	Bellaire Polyelectrolytes & Gels	Post Oak Solids & Granular Materials	San Felipe Room Advanced Technique/Method	Tanglewood Foams & Emulsions	Plaza II Non-Newtonian Fluid Mech.
9:50	SC27* . Industrial suspension rheology as a tool to solve complex engineering problems. <i>B. Derakhshandeh</i>	PM14. Chain length dispersity effects on viscoelastic response of entangled polymers. <i>G. S. Grest, B. L. Peters, K. M. Salerno, T. Ge and D. Perahia</i>	PG9. A direct correlation between the evolution of microstructure and recoverable strain in wormlike micellar solutions. <i>C.-W. Lee and S. A. Rogers</i>	SG1. Emergence and persistence of flow inhomogeneities in the yielding and fluidization of dense soft solids. <i>V. Vishwas, G. Roberts and E. Del Gado</i>	ET14. High-pressure linear viscoelasticity measurements of polymer solutions and gels. <i>K. A. Dennis, Y. Gao, A. Phatak and E. M. Furst</i>	FE5. Viscoelasticity of a drying emulsion. <i>H. H. Winter</i>	NF14* . Using SAOS, LAOS and narrow gap rheology to better understand changes to food structure during oral processing. <i>M. W. Boehm and S. Baier</i>
10:15	SC28. Impact of polymer binder molecular weight on battery slurry rheology and electrochemical performance. <i>S. L. Morelly, M. H. Tang and N. J. Alvarez</i>	PM15. Effects of branching on rheology of polyethylene combs: A molecular dynamics simulation study. <i>D. Perahia, S. Wijesinghe and G. S. Grest</i>	PG10. Tracking wormlike micelle topology during steady and transient shear flows with Dielectric RheoSANS. <i>J. K. Riley, J. J. Richards, N. J. Wagner and P. D. Butler</i>	SG2. 3D simulation of dense granular flow in a rotating drum. <i>A. M. G. Arseni, G. D'Avino, F. Greco and P. L. Maffettone</i>	ET15. Non-equilibrium micro-rheology of a model soft colloidal glass. <i>Q. Li, X. Peng and G. B. McKenna</i>	FE6. Field-induced control of magnetic emulsions rheology. <i>L. Hildebrand Pires da Cunha, I. Rosa de Siqueira and T. Felamingo de Oliveira</i>	NF15. Intrinsic nonlinearity in oscillatory shear from the corotational Maxwell fluid. <i>A. J. Giacomin, P. Pongthong, C. Saengow and C. Koltawong</i>
10:40	SC29. Rheological investigation of fuel cell catalyst inks. <i>S. Khandavalli, J. H. Park, N. N. Kariuki, D. J. Myers, J. J. Stickel, K. Hurst, K. C. Neyerlin, M. Ulsh and S. A. Mauger</i>	PM16. Relating chain conformations to extensional stress in entangled polymer melts. <i>T. C. O'Connor, N. J. Alvarez and M. O. Robbins</i>	PG11. Rheological and alignment transitions in wormlike micelle solutions. <i>J. Weston, K. M. Weigandt and S. Hudson</i>	SG3. Thermal and rheological analysis of polystyrene-grafted silica nanocomposite: Effect of graft length on absolute heat capacity and rubbery plateau modulus. <i>N. U. Sakib, Y. P. Koh and S. L. Simon</i>	ET16. Measuring the mechanical properties of soft particles through microfluidics. <i>M. M. Villone, J. K. Nunes, H. A. Stone and P. L. Maffettone</i>	FE7. Breakup of magnetic drops under simple shear and magnetic field. <i>T. F. Oliveira and L. H. Cunha</i>	NF16. Visualization of chain dynamics of highly entangled shear-banding polymer solutions under large amplitude oscillatory shear (LAOS). <i>S. Shin, K. D. Dorfman and X. Cheng</i>
11:05	SC30. Rheological properties of corn stover slurries during fermentation by Clostridium thermocellum. <i>S. Ghosh, E. K. Holwerda, R. S. Worthen, L. R. Lynd and B. P. Epps</i>	PM17. Probe rheology simulation of heavily entangled polymer melts. <i>P. Nourian, R. Islam, N. Valadez-Perez, T. Indei, J. D. Schieber and R. Khare</i>	PG12. Dissolution kinetics in tangential fluid flow across the interface of micellar gels. <i>M. Rafailovich, J. Li, C. Marmorat, E. Zussman, I. Talmon, N. Koifman, J. Jialong and D. Gersappe</i>	SG4. Structural evolution of grafted-nanoparticles in shear flow. <i>R. Krishnamoorti</i>	ET17. Pushing the boundaries of passive microrheology with artificial thermal noise. <i>S. Kale and J. Samaniuk</i>	FE8. Effect of droplet size and volume fraction on rheology of nanoemulsions. <i>N. Sanatkar and R. Foudazi</i>	NF17. A new mechanism for shear banding of a thixotropic yield stress fluid. <i>M. Geri, B. Saint-Michel, T. Divoux, S. Manneville and G. H. McKinley</i>
11:30	SC31. Shear-induced microstructural evolution and implications for the rheo-dielectric behavior of carbon black suspensions. <i>J. B. Hipp, J. J. Richards and N. J. Wagner</i>	PM18. Attempts to coarse grain a slip-link model to a tube model. <i>K. Taletskiy and J. D. Schieber</i>	PG13. Salt effects on the rheology of semidilute polyelectrolyte solutions. <i>A. Perazzo, E. Turkoz, C. B. Arnold and H. A. Stone</i>	SG5. Yielding, strain hardening, and necking in LLDPE/SEPS rubber bilayer laminates. <i>R. Ramachandran, H. Sankaran, S. Abramowitch, S. Maiti and S. S. Velankar</i>	ET18. Novel use of the van Gurp-Palmen Plot: New insights into polymer dynamics. <i>Z. Qian and G. B. McKenna</i>	FE9. Connecting bubble growth during foaming with the mechanics of the solid foam. <i>C. Mitrias, T. Egelmeers, N. Jaenssen, M. A. Hulsen and P. D. Anderson</i>	NF18. Transient dynamics of the yielding transition in soft materials. <i>G. J. Donley, J. R. de Bruyn, G. H. McKinley and S. A. Rogers</i>
11:55	LUNCH BREAK						

Afternoon

	Galleria I Suspensions & Colloids	Plaza I Polymer Melts	Bellaire Polyelectrolytes & Gels	Post Oak Solids & Granular Materials	San Felipe Room Advanced Technique/Method	Tanglewood Foams & Emulsions	Plaza II Non-Newtonian Fluid Mech.
1:30	SC32. Towards a general constitutive model of dense frictional suspensions. <i>A. Singh, O. Sedes, S. Pednekar, M. M. Denn and J. F. Morris</i>	PM19* . Unsolved problems in rheology of complex fluids. <i>S. S. Deshmukh</i>	PG14. Extensional relaxation time, pinch-off dynamics and printability of semi-dilute polyelectrolyte solutions. <i>L. N. Jimenez, J. Dinic, R. Basse and V. Sharma</i>	SG6. Unveiling the effects of heterogeneity and sub-entanglement chain stretching on the mechanical response of deformed polymeric glass. <i>W. Zou, S. Moghadam, R. S. Hoy and R. G. Larson</i>	ET19. Inferring dynamic moduli from stress relaxation in aging materials. <i>S. Shanbhag, Y. M. Joshi and A. Shukla</i>	FE10. Atypical, non-cubical of asymptotically nonlinear viscoelasticity power law scalings of capillary suspensions. <i>I. Natalia, R. H. Ewoldt and E. Koos</i>	NF19. Acoustically enhanced bubble removal from yield-stress fluids. <i>M. De Corato, B. Saint-Michel and V. Garbin</i>
1:55	SC33. Micromechanical modeling of heterogeneous suspensions. <i>B. E. Dolata and R. N. Zia</i>	PM20. Wire melt electrospinning of polymers. <i>K. Morikawa, A. Vashisth, M. Naraghi and M. J. Green</i>	PG15. Effect of polydispersity on the rheological properties of polyelectrolyte solutions. <i>A. Han, X. Li, L. A. Madsen and R. H. Colby</i>	SG7. Structure-property relation in polymer glasses: Correlation between deformation kinetics and molecular structure. <i>C. Clarijs, V. Leo and L. Govaert</i>	ET20. Study of the rheological behavior of molten polyethylene and numerical simulation of flow in OpenFoam. <i>A. M. Castro, J. O. Pereira, A. R. Secchi and V. M. Calado</i>	FE11. Role of interfacial viscosity and bending resistance on droplet deformation, translation, rheology, and breakup. <i>V. Narsimhan</i>	NF20. Buoyancy effects on micro-annulus formation: Fluid-fluid displacements in vertical channels. <i>I. A. Frigaard and M. Zare</i>

2:20	SC34. High frequency stress contributions of colloidal dispersions: From hard to soft, from smooth to frictional. <i>B. Schroyen, C.-P. Hsu, L. Isa, P. Van Puyvelde and J. Vermant</i>	PM21. Shear and extensional rheology of entangled bulk polymers functionalized with metal-ligand coordination. <i>F. Zhuge, S. Costanzo, D. Parisi, T. Shahid, C.-A. Fustin, J.-F. Gohy, D. Vlassopoulos and E. van Ruymbeke</i>	PG16. Influencing liquid crystalline gel formation in cellulose ionic liquid solutions by adding water and nanoparticles. <i>A. Rajeev, A. P. Deshpande and M. G. Basavaraj</i>	SG8. Rheological behavior of polypropylene reinforced with cellulose filaments. <i>J. Genoyer, N. R. Demarquette, H. Lentzakis and A. Khadri Diallo</i>	ET21. Computing the linear viscoelastic properties of soft gels using an Optimally Windowed Chirp protocol. <i>M. Bouzid, B. Keshavarz, M. Geri, T. Divoux, E. Del Gado and G. H. McKinley</i>	FE12. Interfacial viscoelasticity - the effect of polymer chain flexibility and hydrophobicity. <i>D. Ashkenazi and M. Gottlieb</i>	NF21. Law of resistance for viscoelastic fluids in channel flows at low Re. <i>P. E. Arratia and B. Qin</i>
2:45	SC35. Squeeze flow rheology of shear thickening suspensions. <i>J. A. Ruiz-Lopez, J. Royer, M. Haw and W. Poon</i>	PM22. Rheological studies of polyacrylonitrile copolymer plasticized with water and ethanol. <i>J. Yu and D. G. Baird</i>	PG17. Dynamics of liquid coacervates formed by oppositely charge polyelectrolytes. <i>C. Aponte-Rivera and M. Rubinstein</i>	SG9. Studies on single-screw extrusion of wood-polymer composites with slip effects. <i>K. Wilczynski, K. Buziak, A. Lewandowski and A. Nastaj</i>	ET22. Time-strain separability in medium-amplitude oscillatory shear (MAOS). <i>L. Martinetti and R. H. Ewoldt</i>	FE13. Interfacial viscoelasticity of the native oxide layer on gallium based liquid metal alloys. <i>A. R. Jacob, D. Parekh, M. Dickey and L. C. Hsiao</i>	NF22. Roles of elasticity and inertia in the flow of polymer solutions around a sharp bend. <i>M. Cromer and L. Villasmil</i>
3:10				COFFEE BREAK			
3:45	SC36. Controlling shear thickening in colloidal dispersions through the addition of nanoclay, polymer, and nonBrownian particles. <i>N. J. Wagner, J. Lawton and M. Katzarova</i>	PM23. Decoding the viscoelastic properties of metallo-supramolecular networks moving in a linear polymer matrix. <i>E. van Ruymbeke and F. Zhuge</i>	PG18*. The application of rheology in the development of cosmetic products. <i>H. Bui</i>	SG10. Stimuli-responsive soft composites with semiflexible polymers. <i>G. Chaudhary, J. G. Kang, A. Ghosh, N. A. K. Bharadwaj, K. Schweizer, P. V. Braun and R. H. Ewoldt</i>	ET23. The effect of instrumental inertia on large amplitude oscillatory shear (LAOS) testing of starch suspensions. <i>M. Yildirim, H. Turasan and J. Kokini</i>	FE14. Single droplet interfacial measurements using microfluidic extensional flows. <i>S. Narayan, D. B. Moravec, B. G. Hauser, A. J. Dallas and C. S. Dutcher</i>	NF23. Viscous fingering instabilities in carbon black gels. <i>B. Marsit, Y. Kaloga, I. Bischofberger and T. Divoux</i>
4:10	SC37. First normal stress difference of model attractive colloid polymer depletion mixtures. <i>N. Park and J. C. Conrad</i>	PM24. Identifying nematic ordering and quantifying its effect on chain entanglement in conjugated polymers. <i>R. Xie, A. R. Weisen, E. D. Gomez and R. H. Colby</i>	PG19. Structure and rheology of polypeptide complex coacervates. <i>S. Srivastava, A. Marciel and M. V. Tirrell</i>	SG11. Electrically conductive graphene/polyolefin nanocomposites. <i>M. Z. Iqbal and M. W. Liberatore</i>	ET24. Making MAOS faster, better, and more insightful. <i>P. K. Singh, L. Martinetti, T. R. Price, J. M. Soulages and R. H. Ewoldt</i>	FE15. Tears of wine. <i>P. Rathore, C. Xu and V. Sharma</i>	NF24. Effect of viscoelasticity on the hole growth dynamics in a liquid curtain. <i>M. S. Bazzi, A. M. Karim, W. Suszynski, F. Lorraine and M. S. Carvalho</i>
4:35	SC38. Effect of depletion attraction on reversible shear thickening in bimodal silica suspensions in PEG. <i>Z. Daneshfar, F. Goharpey and R. Foudazi</i>	PM25. Rheology of poly(ethylene-co-methacrylic acid) ionomers: Effects of ionic interactions. <i>T. Tomkovic and S. G. Hatzikiriakos</i>	PG20. The role of extensional kinematic flow field in the study of supramolecular stress recovery. <i>Z. R. Hinton, A. Shabbir and N. J. Alvarez</i>	SG12. Rheological optimization of hydroxyl grafted polybutadiene/clay nanocomposites. <i>V. A. Tanna, J. Enokida, E. B. Coughlin and H. H. Winter</i>	ET25. Influence of experimental setup on squeeze flow behavior of mortars as measured by dynamic pressure mapping. <i>F. A. Cardoso, F. A. Grandes, A. A. Rego and R. G. Pileggi</i>	FE16. Understanding interfacial structure and flow properties of protein-surfactant systems at the air-water interface. <i>Y.-H. S. Tein, M. Zhang, Y. Liu, A. M. Woys, I. Zarraga and N. J. Wagner</i>	NF25. Microrheology and kinematics of a drying paint. <i>S. M. Varghese, R. M. Rock, J. F. Gilchrist and C. L. Wirth</i>
5:00	SC39. Rheology and microstructure of semi-dense and dense soft-to-rigid colloidal suspensions in confined flows. <i>J. Maia, S. Khani, E. Barcelos, S. Jamali and A. Boromand</i>	PM26. Use of rheology to understand the influence of compatibilizer structure on the morphology of polymer blends. <i>N. R. Demarquette, J. Genoyer, M. Yee, J. Soulestin and A. M. De Souza</i>		SG13. The time-temperature superposition principle in polymer nanocomposites. <i>S. Cheng</i>	ET26. Rheo-kinetic study of thermoplastic polyurethane synthesis using in situ Rheo-FTIR analysis. <i>J. Maia, D. Klein, A. Boromand and J. Gadley</i>	FE17. Foam films and liquid bridges formed by aqueous sodium naphenate solutions. <i>C. Ochoa, Y. Zhang, J. Dinic, W. Yang, S. Yilixiati and V. Sharma</i>	NF26. Discontinuous shear thickening of polar liquid crystals. <i>T. Markovich, E. Tjhung and M. E. Cates</i>

END

POSTER SESSION & RECEPTION Woodway II & III Ballrooms, until 8:30 pm
GALLERY OF RHEOLOGY CONTEST Woodway Foyer; Online voting 10 am - 8 pm

Thursday, October 18

Morning

	<i>Galleria I</i> Suspensions & Colloids	<i>Plaza I</i> Polymer Melts	<i>Bellaire</i> Polyelectrolytes & Gels	<i>Post Oak</i> Solids & Granular Materials	<i>San Felipe Room</i> Advanced Technique/Method	<i>Tanglewood</i> Foams & Emulsions	<i>Plaza II</i> Non-Newtonian Fluid Mech.
8:00			AP1. Memory effects in colloidal gels. <i>T. Divoux</i> (Metzner Award Presentation) Galleria I				
8:40	SC40. Diving into a shear-thickening bath. <i>P. Bourrianne and G. H. McKinley</i>	PM27. Gap spanning spherulitic clusters during isothermal crystallization of polypropylene. <i>D. Roy, D. Audus and K. Migler</i>	PG22. Effect of confinement on the rheology of a yield-stress fluid. <i>J. R. de Bruyn and Y. Liu</i>	SG14*. Real-time rheology management for the concrete industry. <i>N. Tregger</i>	ET27. Planar Couette flow for magnetic resonance microscopy. <i>S. J. Stevenson, T. I. Brox and P. Galvosas</i>	FE18. Dynamics of stratification in micellar freestanding films. <i>Y. Zhang, S. Yilixiati, C. Xu and V. Sharma</i>	NF27. Extensional rheology: A microstructural probing technique for living polymers. <i>R. Omidvar and H. Mohammadigoushki</i>
9:05	SC41. Linear viscoelasticity of colloidal suspensions from probe rheology simulations: Application to nanoscopic systems. <i>D. Sundaravadivelu Devarajan and R. Khare</i>	PM28. Flow induced crystallisation in polymers: From molecules to processing. <i>R. S. Graham</i>	PG23. Viscoelastic and hydrogen bonding character of supramolecular polyurethanes. <i>J. Fedderly and J. Santiago</i>	SG15. Computational modelling of suspension flow in pipes: Application to cement based materials. <i>N. S. Martys, W. L. George, S. G. Satterfield and S. Z. Jones</i>	ET28. Polymer degradation in cone-plate rheometry. <i>P. H. Gilbert and A. J. Giacomin</i>	FE19. Dynamics of bubble-bubble pinch-off in a microfluidic expansion channel for high throughput foam generation. <i>D. J. Vecchiolla, V. Giri and S. L. Biswal</i>	NF28. On the measurement and characterization of velocity-slip in Couette-rheology of viscoelastic fluids. <i>M. N. Azese</i>
9:30	SC42. Shear-induced migration and segregation of concentrated bidisperse suspensions in Poiseuille flows. <i>B. Chun, J. S. Park and H. W. Jung</i>	PM29. Formation and reactivation of flow-induced crystallization precursors in semi-crystalline engineering thermoplastics. <i>A. M. Rhoades, J. Seo, A. M. Gohn, R. Androsch and R. H. Colby</i>	PG24. Self-assembly of cellulose nanocrystals (CNCs) in chiral liquid-crystalline phase. <i>M. J. Pospisil, P. Saha, S. Abdulquddos, M. M. Noor, V. A. Davis and M. J. Green</i>	SG16. Use of a bi-fluidic, confining-fluid, pressurizable dilatometer to evaluate engineering and thermal properties of polymers and their composites. <i>B. R. Ondra and A. J. Lesser</i>	ET29. Observation of semiflexible filament thermal bending and transport in complex porous media. <i>Z. Tang, S. Eichmann, F. C. MacKintosh and M. Pasquali</i>	FE20. Foamability of aqueous solutions of charged surfactants and of surfactant-polymer mixtures. <i>C. Martinez, C. U. Ortiz and V. Sharma</i>	NF29. Next-generation aerosol technology for viscoelastic fluids: Filament Extension Atomization. <i>J. Unidad, R. Neelakantan and D. Johnson</i>
9:55				COFFEE BREAK			
10:25	SC43. Conformation tensor-based macroscopic models of particulate and multiphase systems. <i>P. M. Mwasame, N. J. Wagner and A. N. Beris</i>	PM30. SAXS/WAXS studies of flow-induced crystallization of poly(lactic acid) under uniaxial extensional flow. <i>M. S. Kweon, W. Burghardt, A. Jalali and M. Huneault</i>	PG25. Probing the shear mechanical properties of graphene oxide hydrogels with tailored crosslinks for use as structural electrodes for energy storage. <i>S. A. Shah, D. Parviz, W. Sun, D. Kulhanek, J. L. Lutkenhaus and M. J. Green</i>	SG17. Fatigue fingerprints via Fourier transform of the stress. <i>V. Hirschberg, D. Rodrigue and M. Wilhelm</i>	ET30. Methods to characterize microstructural transitions in suspensions. <i>S. Bindgen, F. Bossler, J. de Graaf and E. Koos</i>	FE21. Developing conducting immiscible PP/PS blends with a percolated polyaniline/PA filler by tuning their specific interactions with the compatibilizer. <i>P. Hejmady, A. Bharati, R. Cardinaels and P. Moldenaers</i>	NF30. 3D finite element method for predicting extrudate swell of domains containing sharp corners. <i>M. M. Spanjaards, M. A. Hulsen and P. D. Anderson</i>
10:50	SC44. The dynamics of confined paramagnetic colloidal chain. <i>K. Joshi and S. L. Biswal</i>	PM31. Viscoelasticity-crystallinity relationships for flow-induced crystallization in polycaprolactone. <i>A. Kotula</i>	PG26. Determination of viscoelastic properties of polymer networks using probe rheology simulations. <i>R. Islam, N. Valadez-Perez, T. Indei, J. D. Schieber and R. Khare</i>		ET31. Probing the rheological properties of natural and synthetic fibers with a simple torsional pendulum. <i>B. Keshavarz, B. Zarket, G. H. McKinley and N. Holten-Andersen</i>	FE22. Tuning the phase separated morphology by developing self-compatibilizing polymer blends. <i>A. Bharati, J. Allard, R. Cardinaels and P. Moldenaers</i>	NF31. Pressure loss and flow behavior of gels over a constriction in a pressure driven flow. <i>A. D. Stiefel, C. U. Kirchberger, H. K. Ciezki and G. Kurth</i>
11:15	SC45. A viscoelastic modification to the Modified Delaware Thixotropic Model (MDTM). <i>M. J. Armstrong, N. J. Wagner and A. N. Beris</i>	PM32. Anisotropic thermal transport in non-linear-non-isothermal polymeric flows. <i>D. Nieto Simavilla, D. Venerus, J. D. Schieber, D. N. Theodorou and W. H. Verbeeten</i>				FE23. Modeling the viscoelastic properties of mesophases using intermicellar interactions. <i>S. Qavi and R. Foudazi</i>	NF32. Applicability of the von Mises criterion to soft solids. <i>P. R. de Souza Mendes, L. Sica and R. L. Thompson</i>
11:40		PM33. Interplay between dynamics and structure in microphase separated bottlebrush block copolymers with asymmetric molecular shape. <i>B. M. Yavitt, H. H. Winter and J. J. Watkins</i>					NF33. Numerical simulations of particulate fouling in microchannels. <i>M. Trofa, G. D'Avino, G. Tomaiuolo, F. Greco, P. L. Maffettone and S. Guido</i>
12:05				END			

Poster Session

Wednesday, October 17 6:30 PM – 8:30 PM Woodway II & III Ballrooms

- PO1.** The impact of elevated pressure on surfactant transport to fluid-fluid interfaces. *Z. R. Hinton and N. J. Alvarez*
- PO2.** pH-responsive Pickering emulsions stabilized by nanoparticles-polyelectrolytes complexes. *S. Shahid, S. R. Gurram and M. G. Basavaraj*
- PO3.** Rhamnolipids formulation design: A microrheological study. *L. Xu, Y. Zhou and S. Amin*
- PO4.** Effect of rhamnolipid biosurfactant on surface tension and interfacial rheological behavior with SLES/CAPB surfactant system. *Y. Zhou, L. Xu and S. Amin*
- PO5.** Interfacial dilatational rheology and the controlled fabrication of surfactant- and particle-stabilized emulsions. *J. J. Nash and K. Erk*
- PO6.** Characterizing rheological and interfacial properties of asphaltenes in the presence of chemical dispersants. *Y.-J. Lin, G. F. Christopher and S. L. Biswal*
- PO7.** Thermal processing of thermogelling nanoemulsions as a route to tune material properties. *L.-C. Cheng, J. Swan and P. S. Doyle*
- PO8.** Rheological characterization of mixed surfactant films at droplet interfaces via micropipette aspiration. *B. Micklavzina, M. Longo and K. Luferov*
- PO9.** Symmetry-breaking instability of a leaky dielectric drop in a strong electric field. *J. A. Koch and P. M. Vlahovska*
- PO10.** Tuning interaction potentials to modify the structure and rheology of nanoemulsion colloidal gels. *S. L. K. Vehusheia, L.-C. Cheng and P. S. Doyle*
- PO11.** Foam formation during drainage of a surfactant solution by gas injection. *N. M. Lima, S. Parsa and M. S. Carvalho*
- PO12.** A theoretical model for thermoresponsive nanoemulsions with polymer bridging interactions. *B. K. Ryu, T. Nguyen, S. Fenton, M. E. Helgeson and R. N. Zia*
- PO13.** Considerations of thermal effects in the flow of polymer melts in flat dies during extrusion of cast film. *O. Catherine*
- PO14.** Modeling polydisperse polymers in transient and steady extensional flows using the Mead “semi-toy” model. *D. W. Mead, B. Behdani and J. Park*
- PO15.** Understanding the rheology and dynamics of polymeric mixtures with molecular dynamics. *O. Adeyemi, K. Panchal, A. Heydari Beni and L. Xi*
- PO16.** Strain shifts in stress-controlled oscillatory shear: Probing zero-shear viscosity and TTS shifting factors of polymer melts. *C.-W. Lee and S. A. Rogers*
- PO17.** Configurational microphase separation in elongational flow of an entangled polymer liquid. *M. H. Nafar Sefiddashti, B. J. Edwards and B. Khomami*
- PO18.** Characterizing the impact of shear and cooling conditions on crystallinity of a polymer melt. *J. P. Eickhoff*
- PO19.** In-situ Rheo-SAXS study on shear alignment of ABA triblock copolymers with closed packed spherical morphology. *W. Ding, W. Burghardt and M. Robertson*
- PO20.** Long-lived neighbours determine the rheological response of glasses. *M. Laurati, P. Maßhoff, K. J. Mutch, S. U. Egelhaaf and A. Zaccone*
- PO21.** Thermodynamic description of shear-induced phase transition in jammed soft particle glasses. *F. Khabaz, M. Cloitre and R. T. Bonnecaze*
- PO22.** A model for the depletion layer prediction in a dilute suspension of rigid rod-like particles under shear flows in the entire range of Peclet numbers. *S. Monjezi and J. Park*
- PO23.** Prediction of residual stresses in soft glassy materials using a multi-mode structural kinetic model. *R. Kumar and Y. M. Joshi*
- PO24.** Shear flow affects the morphology and the growth kinetics of salt aggregates. *L. Sicignano, G. Tomaiuolo, A. Perazzo and S. Guido*
- PO25.** The hydrodynamics of the colloidal glass transition via parallelized accelerated Stokesian dynamics. *M. A. Zakhari, G. Ouaknin, J. Wang and R. N. Zia*
- PO26.** The rheology of a spherically confined Brownian suspensions. *A. M. Sunol and R. N. Zia*
- PO27.** Effect of pH conditions on rheological characteristics of boehmite suspensions. *G. W. Lee, D. Y. Lee, B. Chun and H. W. Jung*
- PO28.** Tracer transport probes relaxation and structure of attractive and repulsive glassy liquids. *R. C. Roberts, R. Poling-Skutvik, J. C. Palmer and J. C. Conrad*
- PO29.** Image cytometry of irregular microplastic particles in cross-slot microchannel utilizing viscoelastic focusing. *B. Kim, H. Lee, S. J. Lee, J. H. Kwon and J. M. Kim*
- PO30.** Concentrated suspensions of noncolloidal conductive particles in an electric field: Suspension dynamics and rheology. *J. S. Park and S. Mirfendereski*
- PO31.** Probing the effects of shear energy and interfacial chemistry on the yield stress and aggregate structure of model thickened tailings. *R. Neelakantan, F. Vaezi and R. S. Sanders*
- PO32.** Effect of flow types on agglomerate breakup in a Newtonian fluid. *S. H. Kim, J. Jeong and K. H. Ahn*
- PO33.** Three region rheological and order parameter behavior in nanocylinder dispersions. *M. M. Noor, K. M. Weigandt, M. J. Pospisil, M. J. Green and V. A. Davis*
- PO34.** Experimental and computational studies of the sedimentation of non-orientable objects. *N. Moreno, D. Vazquez-Cortes and E. Fried*
- PO35.** Untying of complex knots on stretched polymers in elongational fields. *B. W. Soh, A. R. Klotz and P. S. Doyle*
- PO36.** Direct visualization of comb polymer dynamics in semi-dilute solutions using single molecule studies. *S. F. Patel and C. M. Schroeder*
- PO37.** A study of the linear and nonlinear viscoelastic properties of cyclic poly(3,6-dioxo-1,8-octanedithiol) (polyDODT). *D. Chen, G. B. McKenna, J. E. Puskas, C. A. Helfer, Z. Qian and J. A. Kornfield*
- PO38.** Dynamics of filamentous viral nanoparticles in semi-dilute polymer solutions. *M. Smith, R. Poling-Skutvik, R. C. Willson and J. C. Conrad*
- PO39.** Rheology of ultra-high molecular weight ring polymer solutions. *S. Banik and G. B. McKenna*
- PO40.** Study on the vortex dynamics of DNA solution in expansion-contraction array microchannel. *S. O. Hong and J. M. Kim*
- PO41.** High-pressure linear viscoelasticity measurements of polymer solutions and gels. *K. A. Dennis, Y. Gao, A. Phatak and E. M. Furst*
- PO42.** Simulating nanoparticle dynamics in semidilute polymer solutions with multiparticle collision dynamics. *R. Chen, R. Poling-Skutvik, A. Nikoubashman, M. P. Howard, S. A. Egorov, J. C. Conrad and J. C. Palmer*
- PO43.** Assembly of tripeptide hydrogels. *L. J. Thursch, N. J. Alvarez, D. DiGuseppi and R. Schweitzer-Stenner*
- PO44.** Gel formation in urethane liquid oligomers. *P. Agarwal, B. Sammler, A. Shafi and L. Pellacani*
- PO45.** Rheological characterization of BDDE crosslinked hyaluronic acid gel for manufacturing quality control of the dermal filler: Steady shear flow and dynamic viscoelastic properties. *K. H. Lee, B. Choi, E. S. Kim and J. H. Kang*
- PO46.** Structure, dynamics and rheology of porous, low density colloidal gel electrolytes. *S. R. Kadulkar, D. Banerjee, F. Khabaz, V. Ganesan, T. M. Truskett and R. T. Bonnecaze*
- PO47.** Cure profile of highly filled silicone gel. *M. Lee and J. M. Beebe*
- PO48.** Polymer-nanoparticle hydrogels for biomedical applications. *H. Lopez Hernandez, A. C. Yu, A. K. Grosskopf and E. Appel*
- PO49.** Dense microgel suspensions with competing interaction potentials. *G. Chaudhary, A. Ghosh, K. Schweizer and R. H. Ewoldt*
- PO50.** Surfactant- versus pH-activated microgel suspensions. *S. Goujard, C. Locatelli-Champagne, J.-M. Suau and M. Cloitre*
- PO51.** Structure of polyelectrolytes in length-mismatched coacervates. *A. Marciel, S. Srivastava and M. V. Tirrell*
- PO52.** Rheology of amine functionalised poly(cyclooctenes): Transition from liquid- to solid-like. *T. Tomkovic, D. J. Gilmour, L. L. Schafer and S. G. Hatzikiriakos*
- PO53.** Phase behavior of block copolymer Pluronic: A rheological perspective. *K. Suman, S. Sourav and Y. M. Joshi*
- PO55.** Studying the polymerization kinetics in nano-confined structures using chemorheology. *S. Qavi, A. Bandegi and R. Foudazi*
- PO56.** Energetics of magnetically tunable colloidal assembly in quasi two dimensions. *E. Hilou and S. L. Biswal*
- PO57.** Actuation of dynamic structures in paramagnetic colloidal chains. *S. Kuei and S. L. Biswal*

- PO58.** Desiccation cracks and external field-induced directed assembly of colloids. *H. Lama, M. G. Basavaraj and D. Satapathy*
- PO59.** Rheological evaluation of suspensions after gap positioning using different squeeze velocity: Influence of solid content and fluid viscosity. *R. C. D. O. Romano, M. H. Maciel, D. D. L. T. Pessutto, H. M. Bernardo, G. S. Soares and R. G. Pileggi*
- PO60.** Exploring anisotropic response in Magneto-Rheological fluids under shear and compressive deformation. *D. Bohnsack, C. Gracia-Fernández and M. T. Lopez-Lopez*
- PO61.** Numerical investigation of viscoelastic instabilities using an improved Level-Set method. *A. Sucena, M. A. Alves, F. T. Pinho and A. M. Afonso*
- PO62.** Detection of time dependent response of thixotropic systems by analysis of SAOS using Kramers-Kronig relations. *K. Ramya, R. Srinivasan and A. P. Deshpande*
- PO63.** Instability of shear thinning pressure driven channel flow. *H. J. Barlow, E. J. Hemingway, A. Clarke and S. M. Fielding*
- PO64.** Viscous fingering of a draining suspension. *Y. Chen, F. Malambri and S. Lee*
- PO65.** Record of rheology: Documenting past Bingham Medal winners. *M. L. Cleaver*
- PO66.** CFD simulation of the extrusion process in the fused deposition modeling using a viscoelastic model. *B. Behdani, L. Mason, M. Leu and J. Park*
- PO67.** Shear banding and delayed yielding in thixotropic yield stress fluids. *M. Agarwal, L. Kushwaha, Y. M. Joshi and V. Shankar*
- PO69.** Evolution of shear bands in Carbopol gel under transient and oscillatory shear. *Y. Wei, L. Liu, M. J. Solomon and R. G. Larson*
- PO70.** Influence of the materials of the walls on the slip behavior of a microgel in Couette flow as studied by PIV. *E. F. Medina-Bañuelos, B. M. Marín-Santibáñez and J. Pérez-González*
- PO71.** Electroviscous effects on rheological properties of polymerized ionic liquids in ion condensed solutions. *A. Matsumoto, F. Del Giudice, R. Rottrattanadumrong and A. Q. Shen*
- PO72.** Describing thixotropy with continuous spectra and low-dimensional metrics. *S. Sen and R. H. Ewoldt*
- PO73.** Tunability and dark curing of photopolymerizable ionic liquids. *R. D. Corder, S. C. Dudick and S. A. Khan*
- PO74.** Elastic stress during stepwise reduction in shear rate for thixotropic suspension. *J. Choi and S. A. Rogers*
- PO75.** Flow-visualization of concentrated surfactant paste: Elucidating flow field of complex fluids under shear deformation. *E. A. Caicedo-Casso, K. Erk and S. Lindberg*
- PO76.** The effect of shear thinning of coating liquids on coating bead dynamics and operability coating window in dual-slot die coating flows. *J. S. Park, T. H. Yoo and H. W. Jung*
- PO77.** Additively manufactured vanes with modified geometries for measurements of yield-stress fluids. *C. E. Owens, T. Narayanan, A. J. Hart and G. H. McKinley*
- PO78.** Multilamellar vesicle formation under large amplitude oscillatory shear. *S. Kuczera, L. Gentile, T. I. Brox, U. Olsson, C. Schmidt and P. Galvosas*
- PO79.** High temperature rheometry. *D. Schuetz, M. Krautschick and J. Laeuger*
- PO80.** Dripping-onto-substrate (DoS) rheometry of complex fluids. *J. Dinic, L. N. Jimenez and V. Sharma*
- PO81.** Newtonian versus non-Newtonian behavior of simple compressible liquids: Brillouin spectroscopy. *T. Yakupov and Z. Utegulov*
- PO82.** Use of a bi-fluidic, confining-fluid, pressurizable dilatometer to evaluate engineering and thermal properties of polymers and their composites. *B. R. Ondra and A. J. Lesser*
- PO83.** Using digital image correlation to monitor the localized degradation of polyethylene exposed to weathering. *A. R. Forest, D. Hunston, J.-H. Kim and C. C. White*
- PO84.** Replacement of the manual torsion tester with a rotational rheometer for the determination of the Clash-Berg flex temperature of plastics. *G. W. Kamykowski*
- PO85.** Using large amplitude oscillatory shear (LAOS) method to quantify polymer long chain branching. *T. T. Chen and G. W. Kamykowski*
- PO86.** Dynamic oscillatory testing and viscoelastic characterization of aqueous fluids under pressure. *A. K. Latshaw*
- PO87.** Remote and in-line sensing of viscosity by EMS system. *K. Sakai, T. Hirano, Y. Yamakawa and M. Hosoda*
- PO88.** A rheo-DMA platform for extended polymer analysis. *A. Shetty, A. Troiss and G. Arnold*
- PO89.** Rheology as a tool for understanding thermoset coating cure and property development. *S. V. Baranczyk, H. Sun and F. A. Johnson*
- PO90.** Evaluating temperature dependence of local mechanical property by temperature variable AFM. *Y. Kasai*
- PO91.** Interfacial exchange cell: New possibilities for subphase modification in interfacial rheology. *K. J. Whitcomb, B. Rajaram and A. Franck*
- PO92.** Small volume capillary rheometry. *S. Hudson, P. F. Salipante, D. Yoon, R. P. Murphy and K. M. Weigandt*
- PO93.** Combined rheo-Raman analysis: Correlating viscoelastic behavior with chemical structure. *B. Rajaram and J. Ramirez*
- PO94.** New, practical rheological tools for QA/QC monitoring of gelation or cure. *D. J. Mooney*
- PO95.** End effect correction for orthogonal superposition of small strain oscillatory shear in a rotational shear rheometer. *R. Tao and A. M. Forster*
- PO96.** Random-frequency sweeps: Empirical examples. *M. T. Shaw*
- PO97.** Impact of instrument inertia on oscillatory shear measurements with rotational rheometers. *G. Arnold, H. Stettin, J. Laeuger and T. Nill*
- PO98.** Testing the paradigm of an ideal glass transition by measuring viscoelastic properties of ultrastable polymeric glass. *G. B. McKenna and H. Yoon*
- PO99.** Decoupling polymeric and colloidal contributions to the rheology of self-suspended grafted nanoparticle melts. *D. Parisi, E. Buenning, B. Benicewicz, S. Kumar and D. Vlassopoulos*
- PO100.** Mechanical and electrical properties of poly(ethylene oxide)/carbon nanotube nanocomposites. *N. Getangama, J. R. de Bruyn and J. L. Hutter*
- PO101.** Effect of surface geometry on the frictional properties of poly(dimethyl siloxane). *Y. Peng, C. M. Serfass and L. C. Hsiao*
- PO102.** Fatigue analysis via Fourier transform of the stress. *V. Hirschberg, M. Wilhelm and D. Rodrigue*
- PO103.** Tribological properties of hard and soft surfaces with grafted polyzwitterionic brushes. *C. M. Serfass and L. C. Hsiao*
- PO104.** Dynamics of polymer-grafted nanoparticles controlled by soft confinement. *A. Slim, R. Poling-Skutvik, J. C. Conrad and R. Krishnamoorti*
- PO105.** Nano-rheological measurements of ultrathin amorphous fluoropolymer films. *A. A. El Banna and G. B. McKenna*
- PO106.** Characterization of clay-based magneto-rheological composite materials for structural applications. *T. L. Thornell, S. L. Williams, Z. B. McClelland and T. S. Rushing*
- PO107.** Mechanical hole-burning spectroscopy of polymer glasses. *S. C. H. Mangalana and G. B. McKenna*
- PO108.** Interplay of deformability and adhesion on margination of elastic micro-particles in blood flow. *Y. Li*
- PO109.** Viscosity curve measurements for actual and mimic bloods by originally developed RheoSpec system. *T. Hirano, S. Mitani and K. Sakai*
- PO111.** Multifaceted blood prediction using the Blackwell-Ewoldt thixo-elasto-visco (TEV) and Herschel-Bulkley/Stickel models. *M. Clark and M. J. Armstrong*
- PO112.** Multifaceted blood prediction using the Bautista-Monero-Puig (BMP) model. *K. Charles and M. J. Armstrong*
- PO113.** Multifaceted blood prediction using contemporary thixotropic and viscoelastic models. *M. Clark, M. J. Armstrong and J. S. Horner*
- PO114.** Multifaceted blood prediction using the Horner-Armstrong-Wagner-Beris thixo-elasto-visco-plastic (TEVP) model. *M. Deegan, M. J. Armstrong and J. S. Horner*
- PO115.** Stress-stabilized sub-isostatic rope networks. *S. Arzash, J. Shivers, A. J. Licup, A. Sharma and F. C. MacKintosh*
- PO116.** Measurement of blood-coagulation-process by new lineup of EMS (Electro-Magnetically-Spinning) rheometer. *Y. Yamakawa, Y. Okada and K. Sakai*

- PO117.** Surface-induced drag on motile bacteria. *R. Chawla, R. Gupta, K. M. Ford and P. P. Lele*
- PO118.** Flow of biopolymer-based microcapsules through a constriction. *B. C. Leopércio, M. Michelon and M. S. Carvalho*
- PO119.** An interspecies comparison of blood rheology. *J. S. Horner, A. N. Beris, N. J. Wagner and D. S. Woulfe*
- PO120.** Non-equilibrium deformation and relaxation of giant floppy vesicles in a precisely controlled extensional flow. *D. Kumar and C. M. Schroeder*
- PO121.** Dynamics and structure of active fluids under confinement. *T. Gao*
- PO122.** Delivering active motion to colloidal gels for microdynamics and mechanical rheometry measurements. *K. T. Saud, M. E. Szakasits and M. J. Solomon*
- PO123.** Extensional rheology of human whole saliva and the role of the particulate matter. *N. S. Suteria, S. Baier and S. A. Vanapalli*
- PO124.** Effect of SiO₂-based nanofluids in the reduction of naphtha consumption for heavy and extra-heavy oils transport: Economic impacts on the Colombian market. *E. A. Taborda Acevedo, F. B. Cortes Correa, V. Alvarado and C. A. Franco Ariza*
- PO125.** Innovative rheology method for barite sagging prediction. *Y. Gao, Y. Chen and R. Karoum*
- PO126.** Microstructure of SBS modified asphalt binder by small-angle neutron scattering. *L. Shan, R. Xie, N. J. Wagner and Y. Liu*
- PO127.** Altering wax appearance using shear and pressure. *A. Ali, U. Asogwa, K. Piezer and M. W. Liberatore*
- PO128.** Characterizing the wear behaviors of carrageenan and whey protein isolate gels by numerical modeling. *J. Tan and H. S. Joyner*
- PO129.** An insight into linear and non-linear behaviour of microfibrillated cellulose suspensions. *S. Sarangi and S. K. Yatirajula*
- PO130.** Electrorheology in food science: Tweaking the viscosity of liquid Chocolate by Electrocutation! *K. M. Tawhid-Al-Islam, H. Tang, E. Du and R. Tao*
- PO131.** Relating cheese wear to its rheological and sensory behaviors. *F. Zad Bagher Seighalani and H. S. Joyner*
- PO132.** Rheological behavior of aqueous solutions of Nopal mucilages with different molecular weight. *F. Rodríguez-González, J. Pérez-González and B. M. Marín-Santibáñez*
- PO133.** Thermal and viscoelastic behavior of polymer films used as photovoltaic module encapsulants. *A. M. Maes, J. Y. Hartley and C. C. Roberts*

Gallery of Rheology

Preview: Monday 1:30 PM – 4:00 PM, Tuesday 8:30 AM – 4:00 PM, Wednesday 8:30 AM – 4:00 PM

Galleria Foyer

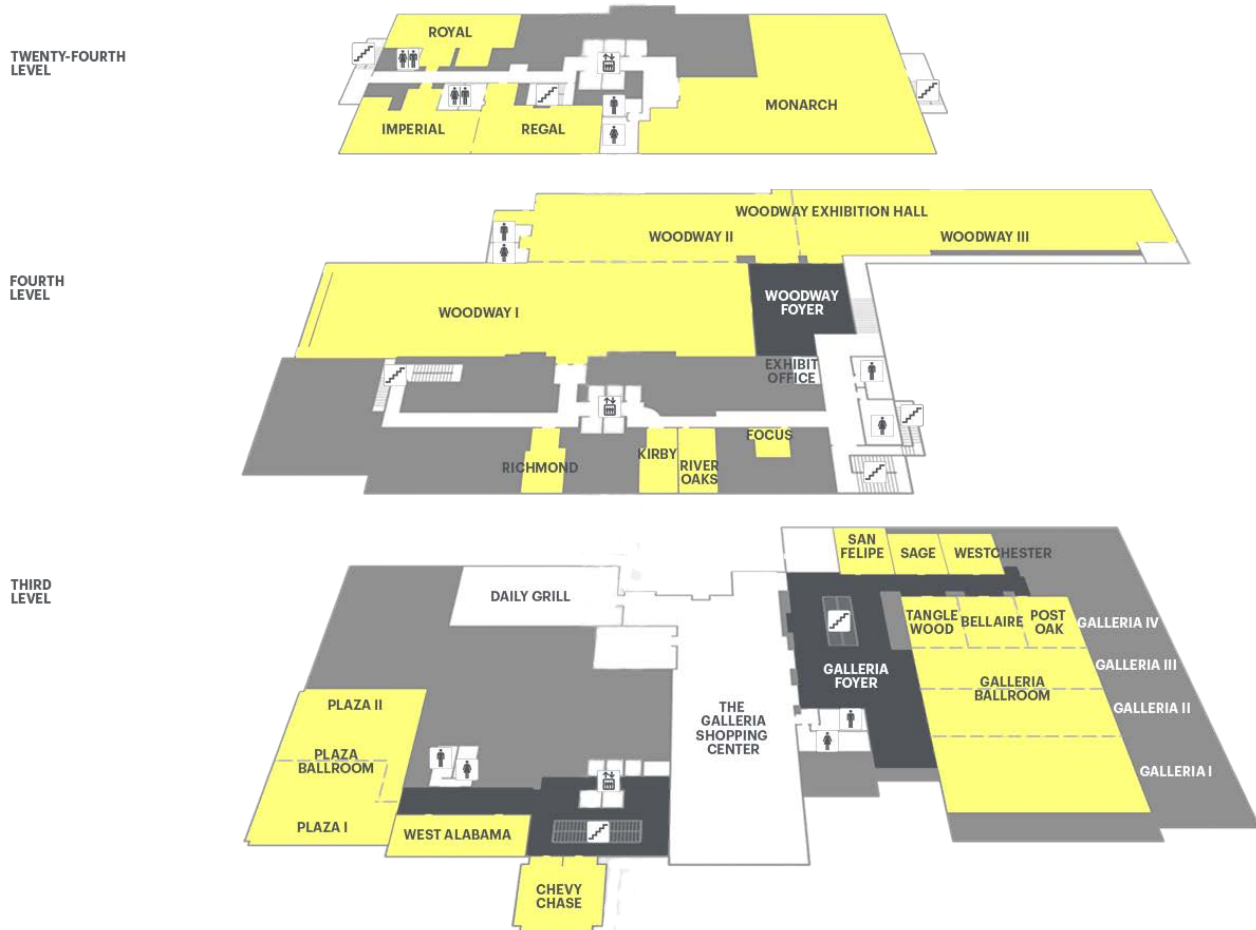
Contest: Wednesday 6:30 PM – 8:30 PM (Online voting 10:00 AM – 8:00 PM)

Woodway Foyer

- GR1.** Eye of Sauron. *A. R. Jacob, L. C. Hsiao and M. Dickey*
- GR2.** The ins and outs of elastic instabilities in cross-slot flows: A 3D experimental view. *B. Qin, R. Ran, P. F. Salipante, S. Hudson and P. E. Arratia*
- GR3.** Visualization of filament extension atomization using contrast agents and high speed video photography. *R. Neelakantan, D. Johnson, J. Unidat, E. Karatay and E. Cocker*
- GR4.** Air invasion into an elasto-viscoplastic fluid in a Hele-Shaw cell: Snowflake. *B. Abedi, B. da Silva Fonseca and P. R. de Souza Mendes*
- GR5.** Invasion of miscible fluids into a “real” yield stress fluid. *M. Zare and I. A. Frigaard*
- GR6.** Viscoelastic fishbones. *B. Keshavarz, M. Geri and G. H. McKinley*
- GR7.** Thixotropy visualized with splashing droplets. *S. Sen, A. G. Morales and R. H. Ewoldt*
- GR8.** Isolating vibration with viscoelastic fluids. *T. Antonsen, R. E. Corman and R. H. Ewoldt*
- GR9.** Go with the flow. *M. Geri, B. Keshavarz and G. H. McKinley*
- GR10.** Oscillating shear bands in a thixotropic yield-stress fluid. *Y. Wei, M. J. Solomon and R. G. Larson*
- GR11.** Stability of viscous fingering patterns in colloidal gels. *I. Bischofberger, B. Marsit, Y. Kaloga and T. Divoux*
- GR12.** Planar cholesteric liquid crystal flowers. *V. A. Davis and S. Partha*
- GR13.** Band formation during post-shear relaxation in a biphasic aqueous sulfonated cellulose nanocrystal dispersion. *M. M. Noor and V. A. Davis*
- GR14.** Carbon nanotube macrostructures from controlled elongational flow. *C. E. Owens, A. J. Hart and G. H. McKinley*
- GR15.** Direct measurement of polymer chain alignment via time-resolved in-situ extensional rheo-SANS. *C. López-Barrón*
- GR16.** Shear thinning around a vibrating wire. *C. C. Hopkins and J. R. de Bruyn*
- GR17.** Foam rheology with viscoelastic surfactant solutions examined in microfluidic devices. *E. D. Vavra, L. Zhang and S. L. Biswal*
- GR18.** 3D printing glass from colloidal suspensions. *N. Dudukovic, J. Long, B. Chavez, J. Wickboldt and R. Dylla-Spears*
- GR19.** Bread dough: A polymer network you can see, feel, and eat. *R. E. Corman, T. Antonsen and R. H. Ewoldt*
- GR20.** Control over distribution of pores in the polymer films fabricated via evaporation induced phase separation. *R. Pervin*
- GR21.** Mechanical contour mapping of human blood. *T. Helton, M. J. Armstrong and J. S. Horner*

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Westin Galleria Houston Meeting Space



Social Program and Special Events

Sunday, October 14	SoR Outreach Event 1:00 PM – 4:00 PM Children’s Museum of Houston
	Welcoming Reception 6:30 PM – 8:30 PM Monarch Room <i>Reception sponsored by TA Instruments</i>
	Monday, October 15
Monday, October 15	Student-Industry Forum 12:00 PM – 1:15 PM Monarch Room <i>Sponsored by American Institute of Physics and The Dow Chemical Company</i>
	Gallery of Rheology Preview 1:30 PM – 4:00 PM Galleria Foyer
	Monday Evening Reception 6:30 PM – 9:30 PM Saint Arnold Brewing Company
Tuesday, October 16	Gallery of Rheology Preview 8:30 AM – 4:00 PM Galleria Foyer
	Society Business Meeting 12:00 PM – 1:30 PM Galleria Ballroom I
	Awards Reception 7:00 PM – 8:00 PM Galleria Foyer
	Awards Banquet 8:00 PM Monarch Room
	Wednesday, October 17
Gallery of Rheology Preview 8:30 AM – 4:00 PM Galleria Foyer	
Poster Session and Reception 6:30 PM – 8:30 PM Woodway II & III Ballrooms <i>Reception sponsored by Anton-Paar USA</i>	
Gallery of Rheology Contest 6:30 PM – 8:30 PM Woodway Foyer Online voting 10 AM – 8 PM	

The Society of Rheology gratefully acknowledges the generous support of TA Instruments, Anton-Paar USA, Malvern Panalytical, American Institute of Physics, The Dow Chemical Company, National Institute of Standards and Technology, and Halliburton.