Meeting Schedule

**Monday, October 15, 2018**

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**Tuesday, October 16, 2018**

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**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
- **NC** = Non-Newtonian Fluid Mechanics & Flow Instabilities
- **GL** = Galleria I
- **PM** = Plenary Lectures
- **PO** = Post Oak
- **PG** = Polyelectrolytes, Self-Assembling Systems & Gels
- **PL** = Polymer Melts: From Molecular to Rheology Processing
- **PS** = Polymers in Solution
- **SC** = Suspensions & Colloids
- **SG** = Solids, Composites & Granular Materials
- *** = Keynote
- **TG** = Tanglewood
- **W23** = Woodway II/III
- **WF** = Woodway Foyer
1:55
SC7. The transient behavior of soft glassy materials far from equilibrium. J. D. Park and S. A. Rogers

2:00
FC7. Role of interfacial rheology on the flow of pickering emulsions through a constriction. J. Sinha and G. F. Christopher

AM7. Simulation of rheological effects in processing during material extrusion. J. S. Horner, D. D. Phan, K. Coasey, A. N. Beris and M. E. Mackay

PS7. Tailoring pore morphology in the polymer films fabricated via dry cast phase separation technique. R. Pervaiz and B. Godappa

ET7. Measurement of the steady-state extensional viscosity of a linear polymer solution using a differential pressure extensional rheometer on a chip. S. G. King, C. M. Ok and H. S. Lee

BA7. Characterization of dual-species biofilm of Bacillus licheniformis and Pseudomonas fluorescens at the air-liquid interface. C. Abriat, M. C. Heuzey, N. Virgilio and F. Daigle

PF7. Modeling the effects of fat type and crystallization conditions on the wear behavior of solid fats. J. Tan and H. S. Iovan

2:20
SC8. Meso-scale model of a soft glassy material under oscillatory shear. C. E. Maloney, K. Khirallah, B. Tynkodi and D. Vandembroucq

FC8. Pore blockage by emulsion injection in a microfluidic porous media. G. Cruz, J. Ayendaro and M. S. Carvalho


PS8. Temperature and concentration behavior of the viscosity of lubricating oil-polymer viscosity index improvers: Thermodynamic (TV) scaling versus T-Tx scaling. S. Cheng and G. B. McKenna


PF8. Micromechanical characterization of edible capsules with finite shell thickness. A. Kamble, A. Xu, M. Michelson, B. C. Leopercio, M. S. Carvalho and J. M. Frostad

2:45
SC9. Relationship between dynamic heterogeneity and rheology of soft particle glasses. P. Khahae, M. Cloitre and R. T. Bonnecaze


AM9. Welding of 3D printed carbon nanotube-polymer composites by locally induced RF heating. M. J. Green, C. B. Sweeney and M. A. Saud

PS9. Entangled polymer chains relax via dynamically heterogeneous pathways. Y. Zhou and C. M. Schroeder


3:10

FC10. Dense suspensions of hollow glass beads in a shear thinning fluid. J. P. Singh and R. G. Morgan

AM10. Selective laser sintering of polymer particle pairs studied by in-situ visualization. P. Heymada, R. Cardinaels, L. van Breemen and P. D. Anderson

PS10. Nonhomogeneous flows during startup shear of highly entangled polystyrene solutions. M. C. Burrroughs, M. E. Helgeson and L. G. Leal

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. C. López-Barría


PF10. eCapillary: A disposable microfluidic extensional viscometer. N. S. Suteria, B. Baier and S. A. Vanapalli

4:10


PS11. Conformational averaging as a route to incorporating hydrodynamic interactions into simulations of dilute and semidilute polymers. C. E. Sin, D. Young and C. D. Young


PF11. Production of monodisperse microcapsules for food applications using microfluidics. M. Michelson, B. C. Leopercio and M. S. Carvalho

4:35

FC12. Displacing viscous heavy oil via emulsification with alkali-surfactant foam in micromolds. E. D. Vareu, M. Puerto, G. J. Hirassaki and S. L. Biswal


PS12. Brownian dynamics simulations of simulative polymer solutions in extensional flow. C. D. Young and C. E. Sin


BA12. Competition between motor and Brownian forces in active gels. A. Córdoba

PF12. Investigating cocoa butter polymorph formation through in situ rheology and Raman spectroscopy. N. C. Crawford, M. Ibrahim and R. Chen

5:00
SC13. Diffusion and equilibrium structure of polydisperse colloidal suspensions confined by a spherical cavity. E. Gonzalez, C. Aponte-Rivera and R. N. Zia

FC13. Optical and rheological analysis of waxy crude oils microstructure: Applications to flow assurance control. C. Carrillo, S. Coppola and S. Caserta


BA13. Fundamental principles behind the emergence of contractility in acto-myosin networks. G. Papovan


5:25
6:30 END

MONDAY EVENING RECEPTION
Saint Arnold Brewing Company, until 9:30 pm

The Society of Rheology 90th Annual Meeting, October 2018 3
Tuesday, October 16

Morning

8:30
PL2. Rheology of ring polymer melts. M. Rubinstein, T. Ge, S. Panayuk, G. S. Grest and D. Vlassopoulos (Bingham Lecture) Galleria 1

9:20
Galleria I Suspensions & Colloids


11:05 SC17. Shear-induced microstructural gradients in colloidal gels for composite hydrogel fibers. E. D. Cardenas-Vazquez and L. C. Hsiao


11:55 LUNCH BREAK / SOCIETY BUSINESS MEETING Galleria Ballroom I, 12:00-1:30 pm

Afternoon

Galleria I Suspensions & Colloids

1:30 SC19. Shear-tunable colloidal gels with embedded granular particles. Y. Jiang, J. Royer and W. Poon


2:00 COFFEE BREAK


2:40 Post Oak Design of Applied Materials


3:10 Post Oak Design of Applied Materials


3:40 Post Oak Design of Applied Materials


4:10 Post Oak Design of Applied Materials


4:40 Post Oak Design of Applied Materials

4:42 DA18. Mechanical shape programming of double network liquid crystal elastomers. M. G. Barnes and R. Verdeco

5:10 Post Oak Design of Applied Materials


5:40 Tanglewood Biological & Active Matters


6:10 Tanglewood Biological & Active Matters

6:11 BA15. Effect of varying fluid rheology on viscoelastic fluid-structure interactions between a flexible cylinder and wormlike micelle solution. A. Dey, Y. Modarress-Sadeghi and J. Rosefth

PM8. Interdiffusion of two molten polystyrenes under SAOS. W. Nakahle, P. M. Wood-Adams and M.-C. Heuzey

PG3. Longtime viscoelasticity of soft bottlebrush gels. L. Cai


DA8. High shear rheology of silica slurries. E. Akbari Fahkhrabadi and M. W. Libratiore

BA21. Silk: A natural example of a sticky entangled polymer. C. Schueller, P. R. Leaty, C. Holland and T. C. McLeish

BA22. Fully-resolved simulation of undulatory swimming of C. elegans in viscoelastic fluids via the immersed boundary technique. C. Guido, J. Binagia and E. G. Shaqfeh

SC22. Controlling the rotational dynamics of semiflexible colloidal chains. N. Kunt and S. L. Biswal


PG4. Signatures of physical aging in Carbopol microgel. M. Agarwal and Y. M. Joshi


PM10. Mobility of polymer-tethered nanoparticles in unentangled polymer melts. T. Ge and M. Rubinstein


PG7. Tuning the structure and rheology of nanomulsion colloidal gels through screening of electrostatic interactions and thermoresponsive polymer bridging. L.-C. Cheng, S. L. K. Veheesha and P. S. Doyle

PS24. Uniaxial extension of entangled polymer solutions. J. Liu, Y. Feng and S.-Q. Wang

DA10. Tuning process parameters to optimize carbon nanotube fibers for high performance conductors. L. W. Taylor, O. S. Dewey and M. Pasquali


END

AWARDS RECEPTION Galleria Ballroom Foyer, until 8 pm

AWARDS BANQUET Monarch Room

10:00

COFFEE BREAK

Foams & Emulsions


FE2. Role of interfacially adsorbed particles in the rheology of solid-stabilized emulsions. M. Koganyuk and A. Mohraz

FE3. Engineering the mechanical properties of oil-water interfaces using nanoparticle surfactants. A. Toor, J. Forth, S. Bochner, J. Binagia and C. C. Sharkey

FE4. Dual color bessel beam microscopy to measure absolute three phase contact angle of microparticles. A. Islam, G. F. Christopher and C. Snoeyink


NF4. Role of interfacially adsorbed particles in the rheology of solid-stabilized emulsions. M. Koganyuk and A. Mohraz

NF11. Vortex dynamics for high levels of polymer drag reduction: Quantitative analysis enabled by a new vortex-tracking algorithm. L. Zhu and L. Xi

NF12. Common features between the Newtonian transition to turbulence and the viscoelastic drag reducing turbulence. A. S. Pereira, R. L. Thompson and G. Monpman

PL3. Connecting rheology to nanoscale structure of block copolymer micelle liquid crystals and nanocomposites. L. M. Walker Galleria I

Morning

PL3. Connecting rheology to nanoscale structure of block copolymer micelle liquid crystals and nanocomposites. L. M. Walker Galleria I

COFFEE BREAK

Afternoon
2:20 SC34. High frequency stress contributions of colloidal dispersions: From hard to soft, from smooth to frictional. B. Schreyer, C.-P. Hsu, L. Isa, P. Van Puyvelde and J. Vermant


PG16. Influencing liquid crystalline gel formation in cellulose ionic liquid solutions by adding water and nanoparticles. A. R. J. Healy, A. P. Deshpande and M. G. Basavvaraj


FE12. Interfacial viscoelasticity - the effect of polymer chain flexibility and hydrophobicity. D. Ashkenazi and M. Gottlieb

NF21. Law of resistance for viscoelastic fluids in channel flows at low Re. P. E. Arrata and B. Qin


PM22. Rheological studies of polyacrylonitrile copolymer plasticized with water and ethanol. J. Yu and D. G. Baird

PG17. Dynamics of liquid concavates formed by oppositely charge polyelectrolytes. C. Aponte-Rivera and M. Rubinstein

PG18*. The application of rheology in the development of cosmetic products. H. But


NF22. Roles of elasticity and inertia in the flow of polymer solutions around a sharp bend. M. Creamer and L. Villasnil

3:10 COFFEE BREAK

3:45 SC36. Controlling shear thickening in colloidal dispersions through the addition of nanoclay, polymer, and non-Brownian particles. N. J. Wagner, J. Lawton and M. Katzarova

PM23. Decoding the viscoelastic properties of metallo-supramolecular networks moving in a linear polymer matrix. E. van Raaybeke and F. Zhuge

PG19. Structure and rheology of polypeptide complex concavates. S. Srinivasa, A. Marcell and M. V. Torrell


ET23. The effect of instrumental inertia on large amplitude oscillatory shear (LAOS) testing of starch suspensions. M. Yildirim, H. Turasan and J. Kokini


NF23. Viscous fingering instabilities in carbon black gels. B. Marsit, Y. Kaloga, J. Bischofberger and T. Divoux

4:10 SC37. First normal stress difference of model attractive colloidal polymer depletion mixtures. N. Park and J. C. Conrad


SG11. Geometrically complicated rheology. A. Marcell and M. V. Torrell


FE15. Tears of wine. P. Rathore, X. Yu and V. Sharma

NF24. Effect of viscoelasticity on the hole growth dynamics in a liquid curtain. M. S. Bazzi, A. M. Karim, W. Suszynski, F. Lorraine and M. S. Carvalho

4:35 SC38. Effect of depletion attraction on reversible shear thickening in bimodal silica suspensions in PEG. Z. Daneshfar, E. Goharpey and R. Foudazi


PG20. The role of extensional kinetic flow field in the study of supramolecular stress recovery. Z. B. Hinton, A. Shabbir and N. J. Alvarez


5:00 SC39. Rheology and microstructure of semi-dense and dense soft-to-rigid colloidal suspensions in confined flows. J. Matia, S. Khani, E. Barcelos, S. Jamalii and A. Boromand

PM26. Use of rheology to understand the influence of compatibilizer structure on the morphology of polymer blends. N. R. Demarquette, J. Genover, M. Raff, J. Soulestin and A. M. De Souza

PG21. Role of extensional interactions in the formation of solid precursors in polymer nanocomposites. S. Cheng


FE17. Foam films and liquid bridges formed by aqueous sodium napthenate solutions. C. Ochoa, Y. Zhang, J. Dinic, W. Tang, S. Tilisias and V. Sharma


5:25 END

6:30 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

Galleria I
Suspensions & Colloids

8:00

SC40. Diving into a shear-thickening bath. P. Bourriniere and G. H. McKinley

8:40

SC41. Linear viscoelasticity of colloidal suspensions from probe rheology simulations: Application to nanoscopic systems. D. Sundarayavathula and R. Khare

9:05

SC42. Shear-induced migration and segregation of concentrated bidisperse suspensions in Poiseuille flows. B. Chun, J. S. Park and H. W. Jung

9:30

SC43. Conformation tensor-based macroscopic models of particulate and multiphase systems. P. M. Mwasame, N. J. Wagner and A. N. Beris

10:25

SC44. The dynamics of confined paramagnetic colloidal chain. K. Joshi and S. L. Biswal

10:50


11:15


11:40

SC47. Interplay between dynamics and structure in microphase separated bottlebrush block copolymers with asymmetric molecular shape. B. M. Javidi, H. H. Winter and J. J. Watkins

Bellaire
Polyelectrolytes & Gels

8:40


9:05

PG23. Viscoelastic and hydrogen bonding character of supramolecular polyurethanethes. B. S. Graham

9:30


10:25

PG25. Probing the shear mechanical properties of graphene oxide hydrogels with tailored crosslinks for use as structural electrodes for energy storage. S. A. Shah, D. Parviz, W. Sun, D. Kulhanek, J. L. Lutkenhaus and M. J. Green

10:50


Post Oak
Solids & Granular Materials

8:40

SG14*. Real-time rheology management for the concrete industry. N. Tregger

9:05


9:30


10:25


10:50


San Felipe Room
Advanced Technique/Method

8:40

ET27. Planar Couette flow for magnetic resonance microscopy. S. J. Stevenson, T. I. Bros and P. Galvosas

9:05

ET28. Polymer degradation in cone-plate rheometry. P. H. Ghiburt and A. J. Giacomin

9:30

ET29. Observation of semiflexible filament thermal bending and transport in complex porous media. Z. Tang, S. Eichmann, F. C. MacKintosh and M. Pasquali

10:25

ET30. Developing conducting immiscible PP/PS blends with a percolated polyaniline/PA filler by tuning their specific interactions with the compatibilizer. P. Hejmady, A. Bharati, R. Cardinaels and M. A. Hulsen

10:50

ET31. Probing the rheological properties of natural and synthetic fibers with a simple torsional pendulum. R. Keshavarz, B. Zarket, G. H. McKinley and N. Holten-Andersen

Tanglewood
Foams & Emulsions

8:40

FE18. Dynamics of stratification in micellar freestanding films. Y. Zhang, S. Yil-shift, C. Xu and V. Sharma

9:05


9:30

FE20. Foamability of aqueous solutions of charged surfactants and of surfactant-polymer mixtures. C. Martinez, C. U. Ortiz and F. Sharma

10:25

FE21. Developing conducting immiscible PP/PS blends with a percolated polyaniline/PA filler by tuning their specific interactions with the compatibilizer. P. Hejmady, A. Bharati, R. Cardinaels and M. A. Hulsen

10:50

FE22. Tuning the phase separated morphology by developing self-compatibilizing polymer blends. A. Bharati, J. Allard, R. Cardinaels and P. Moldenaers

Plaza II
Non-Newtonian Fluid Mech.

8:40

NF27. Extensional rheology: A microstructural probing technique for living polymers. R. Omidvar and H. Mohammadioughskhi

9:05

NF28. On the measurement and characterization of velocity-slip in Couette-rheology of viscoelastic fluids. M. N. Azer

9:30


10:25

NF30. 3D finite element method for predicting extrudate swell of domains containing sharp corners. M. M. Spanjaard, M. A. Hulsen and P. D. Anderson

10:50


11:15


11:40


END
PO1. The impact of elevated pressure on surfactant transport to fluid-fluid interfaces. Z. R. Hinton and N. J. Alvarez


PO3. Rhamnolipids formulation design: A micro rheological 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 dilational rheology and the controlled fabrication of surfactant- and particle-stabilized emulsions. J. J. Nash and K. Erk

PO6. Characterizing rheological and interfacial properties of asphaltene 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. Mickelevicz, M. Longo and K. Luferov

PO9. Symmetry-breaking instability of a leaky dielectric fluid 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. Vechushevski, L.-C. Cheng and P. S. Doyle

PO11. Foam formation during drainage of a surfactant solution by gas injection. N. M. Lim, S. Parsa and M. S. Carvalho


PO13. Considerations of thermal effects in the flow of polymer melts in flat dies during extrusion of cast film. O. Caterine


PO15. Understanding the rheology and dynamics of polymeric mixtures with molecular dynamics. O. Adeyemi, K. Panchal, A. Heydari Beni and L. Xi


PO18. Characterizing the impact of shear and cooling conditions on crystallinity of a polymer melt. J. P. Eickhoff

PO19. In-situ Rho-SAXS study on shear alignment of NBA triblock copolymers with closed packed spherical morphology. W. Ding, W. Burghardt and M. Robertson


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 Pecllet 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. Scigiano, G. Tomaizulo, 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. Solod and R. N. Zia


PO30. Concentrated suspensions of noncolloidal conductive particles in an electric field: Suspension dynamics and rheology. J. S. Park and S. Mitfendereski

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 type 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. Sah, 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


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


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


PO47. Cure profile of highly filled silicone gel. M. Lee and J. M. Beebe


PO49. Dense microgel suspensions with competing interaction potentials. G. Chaudhary, A. Ghosh, K. Schweizer and R. H. Ewoldt


PO51. Structure of polyelectrolytes in length-mismatched coacervates. A. Marciez, S. Srivastava and M. V. Trelle

PO52. Rheology of amine functionalised poly(cyclooctenes): Transition from liquid- to solid-like. T. Tomkovic, D. J. Gilmour, L. L. Schafer and S. G. Hatziikiriakos

PO53. Phase behavior of block copolymer Pluronic: A rheological perspective. K. Suma, S. Sourav and Y. M. Joshi

PO54. Studying the polymerization kinetics in nano-confined structures using chemorheology. S. Ovi, A. Bandegi and R. Foudazi

PO55. Energetics of magnetically tunable colloidal assembly in quasi two dimensions. E. Hilou and S. L. Biswal

PO56. 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. Langa*, M. G. Basavaraj and D. Satapathy


PO60. Exploring anisotropic response in Magneto-Rheological fluids under shear and compressive deformation. *D. Bolansack*, C. Gracia-Fernández and M. T. Lopez-Lopez


PO63. Instability of shear thinning pressure driven channel flow. *H. J. Barlong*, E. J. Hemingway, A. Clarke and S. M. Fielding

PO64. Viscous fingering of a damping suspension. *Y. Chen*, F. Malambrì 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. Mison, M. Leu and J. Park

PO67. Shear banding and delayed yielding in thixotropic yield stress fluids. *M. Agarwal*, L. Kashewara, Y. M. Joshi and V. Shankar


PO70. Influence of the materials of the walls on the slip behavior of a micрогel in Couette flow as studied by PIV. *E. F. Medina-Bañuelos*, B. M. Marin-Santibáñez and J. Pérez-González

PO71. Electrorheological effects on rheoelastic properties of polymerized ionic liquids in ion condensed solutions. *A. Matsunoto*, F. Del Giudice, R. Rotrattanamong 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. Dudic and S. A. Khan

PO74. Elastic stress during stepwise reduction in shear rate for thixotropic suspension. *J. Chai* 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


PO79. High temperature rheometry. *D. Schuetz*, M. Krautschick and J. Laeuger


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


PO84. Replacement of the manual torsion as a reliable rheometer for the determination of the Clash-Berg flex temperature of plastics. *G. W. Kamiykowski*

PO85. Using large amplitude oscillatory shear (LAOS) method to quantify polymer long chain branching. *T. T. Chen* and G. W. Kamiykowski

PO86. Dynamic oscillatory testing and viscoelastic characterization of aqueous fluids under pressure. *A. K. Layshaw*

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. Baranycz*, H. Sun and F. A. Johnson

PO90. Evaluating temperature dependence of local mechanical property by temperature variable AFM. *Y. Kusai*


PO93. Combined rhe-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. Moonay*

PO95. End effect correction for orthogonal superposition of small strain oscillatory shear in a rotational rheometer. *R. Tao* and A. M. Forster

PO96. Random-frequency sweeps: Empirical examples. *M. T. Shaw*


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. Buening, B. Benicewicz, S. Kumar and D. Vlassopoulos

PO100. Mechanical and electrical properties of poly(ethylene oxide)/carbon nanotube nanocomposites. *N. Getungumo*, 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. *F. 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


PO105. Nano-rheological measurements of ultrathin amorphous fluoropolymer films. *A. A. El Banna* and G. B. McKenna


PO107. Mechanical hole-burning spectroscopy of polymer glasses. *S. C. H. Mangalara* and G. B. McKenna

PO108. Interplay of deformability and adhesion on 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

PO110. Multifaceted blood prediction using the Blackwell-Ewoldt thixo-elasto-visco (TEV) and Herschel-Bulkley/Stickel models. *M. Clark* and M. J. Armstrong


PO118. Flow of biopolymer-based microcapsules through a constriction. B. C. Leopércio, M. Michelon and M. S. Carvalho


PO120. Non-equilibrium deformation and relaxation of giant floppv 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. Seakasitis 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


PO125. Innovative rheology method for barite sagging prediction. Y. Gao, Y. Chen and R. Karoum


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. Yatrajula


PO131. Relating cheese wear to its rheological and sensory behaviors. F. Rodríguez-González, J. Pérez-González and B. M. Marin-Santibañez

PO132. Thermal and viscoelastic behavior of polymer films used as photovoltaic module encapsulants. A. M. Maos, 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


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


GR8. Isolating vibration with viscoelastic fluids. T. Antonsen, R. E. Corman and R. H. Ewoldt

GR9. With the flow. M. Geri, B. Keshavarz and G. H. McKinley


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


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


GR20. Control over distribution of pores in the polymer films fabricated via evaporation induced phase separation. R. Pervin


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<th>Date</th>
<th>Event Description</th>
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<tr>
<td><strong>Sunday, October 14</strong></td>
<td>SoR Outreach Event</td>
<td>1:00 PM – 4:00 PM</td>
<td>Children’s Museum of Houston</td>
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<td>Welcoming Reception</td>
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<td><strong>Monday, October 15</strong></td>
<td>Student-Industry Forum</td>
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<td>Gallery of Rheology Preview</td>
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<td>Monday Evening Reception</td>
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<td>Saint Arnold Brewing Company</td>
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<td><strong>Tuesday, October 16</strong></td>
<td>Gallery of Rheology Preview</td>
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<td>Galleria Foyer</td>
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<td>Society Business Meeting</td>
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<td>Awards Reception</td>
<td>7:00 PM – 8:00 PM</td>
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<td>Awards Banquet</td>
<td>8:00 PM</td>
<td>Monarch Room</td>
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<tr>
<td><strong>Wednesday, October 17</strong></td>
<td>Gallery of Rheology Preview</td>
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<td>Galleria Foyer</td>
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<td>Poster Session and Reception</td>
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<td>Gallery of Rheology Contest</td>
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<td>Woodway Foyer</td>
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*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.*