



The Society of Rheology 87th Annual Meeting

Hyatt Regency Baltimore Inner Harbor Baltimore, Maryland

Meeting Schedule

Monday, October 12, 2015

	CC	CD	CE	CF	BA	FC
8:30	J. Vermant (PL1) - CDF					
9:20	Coffee Break					
10:00	SC1	SM1	IR1	BM1	SG1	NF1
10:25	SC2	SM2	IR2	BM2	SG2	NF2
10:50	SC3	SM3	IR3	BM3	SG3	NF3
11:15	SC4	SM4	IR4	BM4	SG4	NF4
11:40	SC5	SM5	IR5	BM5	SG5	NF5
12:05	Lunch Break					
1:30	SC6	SM6	IR6	BM6	SG6	NF6
1:55	SC7	SM7	IR7	BM7	SG7	NF7
2:20	SC8	SM8	IR8	BM8	SG8	NF8
2:45	SC9	SM9	IR9	BM9	SG9	NF9
3:10	SC10	SM10	IR10		SG10	NF10
3:35	Coffee Break					
4:00	SC11	SM11	IR11	BM11		NF11
4:25	SC12	SM12	IR12	BM12	SG12	NF12
4:50	SC13	SM13	IR13	BM13	SG13	NF13
5:15	SC14	SM14	IR14	BM14	SG14	NF14
5:40	SC15	SM15	IR15	BM15	SG15	NF15
6:05	End					
7:00	Baltimore Aquarium Reception 7:00-9:30					

Tuesday, October 13, 2015

	CC	CD	CE	CF	BA	FC
8:30	H. Watanabe (PL2) - CDF					
9:20	Coffee Break					
10:00	SC16	SM16	SA1	BM16	SG16	NF16
10:25	SC17	SM17	SA2	BM17	SG17	NF17
10:50	SC18	SM18	SA3	BM18	SG18	NF18
11:15	SC19	SM19	SA4	BM19	SG19	NF19
11:40	SC20	SM20	SA5	BM20	SG20	NF20
12:05	Lunch Break / Society Business Meeting - CC					
1:30	SC21	SM21	SA6	BM21	SG21	NF21
1:55	SC22	SM22	SA7	BM22	SG22	NF22
2:20	SC23	SM23	SA8	BM23	SG23	NF23
2:45	SC24	SM24	SA9	BM24	SG24	NF24
3:10	SC25	SM25	SA10	BM25	SG25	
3:35	Coffee Break					
4:00		SM26	SA11		SG26	
4:25	SC27	SM27	SA12		SG27	NF26
4:50	SC28	SM28	SA13		SG28	NF27
5:15	SC29	SM29	SA14			NF28
5:40	SC30	SM30	SA15			NF29
6:05	End					
7:00	Awards Reception - FA					
8:00	Awards Banquet - CDF					

Wednesday, October 14, 2015

	CC	CD	CE	CF	BA	FC
8:30	M. O. Robbins (PL3) - CDF					
9:20	Coffee Break					
10:00	SC31	SM31	SA16	CR1	PM1	MN1
10:25	SC32	SM32	SA17	CR2	PM2	MN2
10:50	SC33	SM33	SA18	CR3	PM3	MN3
11:15	SC34	SM34	SA19	CR4	PM4	MN4
11:40	SC35	SM35	SA20	CR5	PM5	MN5
12:05	Lunch Break					
1:30	SC36	SM36	SA21	CR6	PM6	MN6
1:55	SC37	SM37	SA22	CR7	PM7	MN7
2:20	SC38	SM38	SA23	CR8	PM8	MN8
2:45	SC39	SM39	SA24	CR9	PM9	MN9
3:10	SC40	SM40	SA25	CR10		MN10
3:35	Coffee Break					
4:00	SC41	SM41	SA26	CR11		MN11
4:25	SC42	SM42	SA27	CR12		MN12
4:50	SC43	SM43	SA28	CR13		
5:15	SC44	SM44	SA29	CR14		
5:40	SC45	SM45	SA30	CR15		
6:05	End					
6:05	Poster Session & Reception - AH / 6:05-8:00					

Thursday, October 15, 2015

	CC	CD	CE	CF
8:00	A. Ma (AP1) - CA			
8:40	SC46	SM46	SA31	CR16
9:05	SC47	SM47	SA32	CR17
9:30	SC48	SM48	SA33	CR18
9:55	Coffee Break			
10:25	SC49	SM49	SA34	CR19
10:50		SM50	SA35	CR20
11:15		SM51		
11:40		SM52		
12:05	End			

Session and Room Codes

AP = Award Presentations
 BM = Biological Macromolecules: Proteins, Cellulosic Biomass and other Biomaterials
 CR = Computational Rheology
 IR = Interfacial Rheology
 MN = Micro and Nanofluidics
 NF = Non-Newtonian Fluid Mechanics
 PL = Plenary Lectures
 PM = Probe Microrheology
 SA = Self-assembled Systems and Gels

SC = Suspensions and Colloids
 SG = Solids, Glasses, and Composites
 SM = Polymer Solutions and Melts

AH = Atrium/Harborview
 BA = Baltimore/Annapolis
 CA = Constellation A
 CC = Constellation C
 CD = Constellation D
 CDF = Constellation D-F
 CE = Constellation E
 CF = Constellation F
 FA = Foyer/Atrium
 FC = Frederick/Columbia

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Plenary Lectures and Award Presentation

- Monday, October 12**
8:30 AM, Constellation D-F
Rheological excursions in flatland: From monolayers to bilayers
Jan Vermant
Materials Science, ETH Zürich
- Tuesday, October 13**
Bingham Lecture
8:30 AM, Constellation D-F
Slow dynamics of components in miscible polymer blends
Hiroshi Watanabe
Institute for Chemical Research, Kyoto University
- Wednesday, October 14**
8:30 AM, Constellation D-F
Flow in disordered systems: From simple fluids to athermal solids
Mark O. Robbins¹, Joel Clemmer¹, Vikram Jadhao¹, and K. M. Salerno²
¹*Physics, Johns Hopkins University*; ²*Sandia National Laboratory*
- Thursday, October 15**
Metzner Award Presentation
8:00 AM, Constellation A
The rheology and microstructure of carbon nanotube suspensions
Anson Ma
Institute of Materials Science, University of Connecticut

Social Program

- Sunday, October 11**
SoR Outreach Event
1:00 PM – 4:00 PM Maryland Science Center
- Registration**
2:00 PM – 6:30 PM Foyer
- ASTM-E37.08 Subcommittee on Rheology**
3:00 PM – 4:00 PM Constellation C (Meeting open to all.)
- Student/Industry Forum and Reception: *Careers in Rheology***
4:00 PM – 6:00 PM Starting in Constellation F
Sponsored by The Dow Chemical Company and American Institute of Physics
- Welcoming Reception**
6:30 PM – 8:30 PM Foyer/Atrium
Hosted by TA Instruments
- Monday, October 12**
Baltimore Aquarium Reception
7:00 PM – 9:30 PM National Aquarium
- Tuesday, October 13**
Society Business Meeting
12:05 PM – 1:30 PM Constellation C
- Awards Reception**
7:00 PM – 8:00 PM Foyer/Atrium
Sponsored by Xpansion Instruments
- Awards Banquet**
8:00 PM Constellation D-F
- Wednesday, October 14**
Poster Session and Reception
6:05 PM – 8:00 PM Atrium/Harborview
Sponsored by Anton-Paar USA

Monday, October 12

Morning

8:30	PL1. Rheological excursions in flatland: From monolayers to bilayers. <i>J. Vermant</i> Constellation D-F					
9:20	COFFEE BREAK					
	<i>Constellation C</i>	<i>Constellation D</i>	<i>Constellation E</i>	<i>Constellation F</i>	<i>Baltimore/Annapolis</i>	<i>Frederick/Columbia</i>
	Suspensions and Colloids	Polymer Solutions and Melts	Interfacial Rheology	Biological Macromolecules	Solids, Glasses, and Composites	Non-Newtonian Fluid Mechanics
10:00	SC1. A simple paradigm for strongly nonlinear large-amplitude oscillatory shear (LAOS) rheology. <i>A. S. Khair</i>	SM1. Force-level theory of multiscale transient localization and emergent elasticity in polymer solutions and melts. <i>Z. E. Dell and K. S. Schweizer</i>	IR1. Modelling of complex interfaces for pendant drop experiments. <i>C. Balemans, M. A. Hulsen and P. D. Anderson</i>	BM1. How do distinct extracellular matrix polymers confer distinct mechanical properties on bacterial biofilms? <i>K. Kovach, M. Davis-Fields, S. Doorwar, K. Mohanty and V. D. Gordon</i>	SG1. Echoes in x-ray speckles track nanometer-scale plastic events in nanostructured soft disordered solids under shear. <i>R. L. Leheny, M. C. Rogers, K. Chen, T. G. Mason, S. Narayanan, S. Ramakrishnan and J. L. Harden</i>	NF1. Drop impact on permeable meshes with yield-stress fluids. <i>B. C. Blackwell and R. H. Ewoldt</i>
10:25	SC2. Unsteady shear flows of colloidal suspensions: Simulation by Accelerated Stokesian Dynamics. <i>S. Marene and J. F. Morris</i>	SM2. Tubes and entanglements in polymer melts. <i>A. E. Likhtman</i>	IR2. An oscillating pendant drop method to study the interfacial viscoelasticity of monolayers. <i>M. Nagel, M. Pepicelli and J. Vermant</i>	BM2. Evolution to change the matrix composition of clinical biofilm infections makes the biofilms stiffer, consistent with a mechanical fitness benefit. <i>V. D. Gordon, M. Davis-Fields, K. Kovach, S. Doorwar and K. Mohanty</i>	SG2. Theory of polymer dynamics in model nanocomposites. <i>U. Yamamoto and K. S. Schweizer</i>	NF2. Drop deformation of viscoelastic drops in the presence of continuous air stream in the bag breakup regime. <i>V. Kulkarni, A. Ardekani, S. Snyder and P. E. Sojka</i>
10:50	SC3. Athermal analogue of sheared dense Brownian suspensions. <i>M. Trulsson, M. Bouzid, J. Kurchan, E. Clément, P. Claudin and B. Andreotti</i>	SM3. Single chain dynamics of entangled linear polyethylene liquids under homogenous shear and planer elongational flows using nonequilibrium molecular dynamics simulations. <i>M. H. Nafar Sefiddashti, B. J. Edwards and B. Khomami</i>	IR3. Shear thinning behavior of surface viscosity for surfactant monolayer at low shear rate. <i>T. Hirano and K. Sakai</i>	BM3. Effect of particulate contaminates on the development and interfacial rheology of pellicle biofilms. <i>Z. Zhang and G. F. Christopher</i>	SG3. Entangled polymer-nanocomposites: Structure and dynamics. <i>R. Mangal, S. Srivastava and L. A. Archer</i>	NF3. Extensional necking in complex fluids: Beyond the Considere criterion. <i>S. M. Fielding and D. M. Hoyle</i>
11:15	SC4. Silica particles dispersion in the ionic liquid [C ₄ mim][BF ₄]. <i>J. Gao and N. J. Wagner</i>	SM4. Viscoelastic relaxation of Rouse chains undergoing head-to-head association and dissociation. 1. Simple modeling of motional coupling through chemical equilibrium. <i>H. Watanabe and Y. Matsumiya</i>	IR4. Relative importance of capillarity and microstructure on interfacial viscoelasticity of particle laden interfaces. <i>S. Barman and G. F. Christopher</i>	BM4. Pseudomonas aeruginosa biofilm rheology. <i>U. Daalkhajav and T. W. Walker</i>	SG4. Effective pairwise mobility determines the rheology of soft particle glasses. <i>S. Das, T. Liu, M. Cloitre and R. T. Bonnecaze</i>	NF4. Extensional rheology of suspensions of motile cells. <i>R. Prabhakar, A. McDonnell, J. Friend and L. Yeo</i>
11:40	SC5. The role of hydrodynamic interactions in shear-induced clustering in polymer-colloid suspensions. <i>J. Kim and M. E. Helgeson</i>	SM5. Viscoelastic relaxation of Rouse chains undergoing head-to-head association and dissociation. 2. Experimental test. <i>Y. Matsumiya and H. Watanabe</i>	IR5. A 2D Stokesian dynamics simulation of microstructure deformation of particle laden interfaces. <i>N. Laal-Dehghani, S. Barman and G. F. Christopher</i>	BM5. Study of the linear rheology and structure of Casein gels at different concentrations. <i>B. Keshavarz, M. Leocmach, S. Manneville, T. Divoux and G. H. McKinley</i>	SG5. Effect of attractions on the yielding behavior of glasses. <i>M. A. Kumar, R. H. Ewoldt and C. F. Zukoski</i>	NF5. Extensional flowSANS at NIST. <i>K. Weigandt and R. McAllister</i>
12:05	LUNCH BREAK					

Afternoon

	<i>Constellation C</i>	<i>Constellation D</i>	<i>Constellation E</i>	<i>Constellation F</i>	<i>Baltimore/Annapolis</i>	<i>Frederick/Columbia</i>
	Suspensions and Colloids	Polymer Solutions and Melts	Interfacial Rheology	Biological Macromolecules	Solids, Glasses, and Composites	Non-Newtonian Fluid Mechanics
1:30	SC6. The suspension balance model revisited: Revisited. <i>M. Wang and J. Brady</i>	SM6. The long-awaited universality in polymer physics. <i>S. Wingstrand, Q. Huang, O. Hassager and N. J. Alvarez</i>	IR6. Rheological behavior of bacteria at fluid interfaces. <i>L. Vaccari, N. Sharifi-Mood, T. H. Niepa, R. L. Leheny and K. J. Stebe</i>	BM6. Redefining the role of the gluten network in the rheology of wheat dough. <i>M. Meerts, R. Cardinaels, F. Oosterlinck, C. M. Courtin and P. Moldenaers</i>	SG6. Convective cage release in model colloidal glasses. <i>A. R. Jacob, A. Poulos, S. Kim, J. Vermant and G. Petekidis</i>	NF6. Stress gradient diffusion in dilute polymer solutions: Two model problems. <i>R. G. Larson, G. Zhu and X. Wang</i>
1:55	SC7. Does suspension crowding screen hydrodynamic interactions? <i>Y. Su, J. W. Swan and R. N. Zia</i>	SM7. Exploring the dynamics of star polymers in fast extensional flow and stress relaxation. <i>Q. Huang, S. Agostini, L. Hengeller, M. Shivokhin, N. J. Alvarez, L. R. Hutchings and O. Hassager</i>	IR7. Wrinkling of thin interfacial films by viscous stress. <i>S. Chatterjee, M. Christina, P. Wang, R. Huang and S. S. Velankar</i>	BM7. Fracture patterns and failure criteria for soft solid gels. <i>M. Leocmach, B. Keshavarz, C. Perge, G. H. McKinley, T. Divoux and S. Manneville</i>	SG7. What are the minimal interparticle interactions necessary to successfully simulate soft particle glasses? <i>T. Liu, M. Cloitre and R. T. Bonnecaze</i>	NF7. Stress diffusion in models for shear banding. <i>E. M. Masnada and P. D. Olmsted</i>

2:20	SC8. Bulk rheology of suspensions of rigid particles in viscoelastic fluids. <i>N. O. Jaensson, M. A. Hulsen and P. D. Anderson</i>	SM8. Issues with melt extension from non-isothermal condition, breakdown of time-temperature superposition to internal energy buildup. <i>P. Lin and S.-Q. Wang</i>	IR8. Disentangling the mechanisms underlying the dilatational modulus of irreversibly adsorbed layers. <i>A. P. Kotula, S. M. Kirby, T. M. Moyle, L. M. Walker and S. L. Anna</i>	BM8. An investigation of the capillary thinning dynamics of saliva using a sticky gel network model. <i>C. E. Wagner and G. H. McKinley</i>	SG8. Structure, rheology and transport properties of binary soft colloids. <i>A. Agrawal, S. Choudhury and L. A. Archer</i>	NF8. Evaluation of stress diffusion coefficient for wormlike micellar systems. <i>H. Mohammadigoushki and S. J. Muller</i>
2:45	SC9. Mixing and demixing in ternary particle-liquid-liquid mixtures. <i>S. J. Heidlebaugh, T. Domenech, S. Iasella and S. S. Velankar</i>	SM9. Small-angle neutron scattering study of the molecular deformation mechanism of entangled polymer melts in rapid uniaxial extension. <i>J. Liu, P. Lin, S.-Q. Wang, L. E. Sanchez-Diaz, S. Cheng, K. Hong, W.-R. Chen and Y. Wang</i>	IR9. Impact of composition on the interfacial mechanics of multicomponent fluid-fluid interfaces. <i>S. M. Kirby, S. L. Anna and L. M. Walker</i>	BM9. Synergistic interaction between kappa-carrageenan and methylcellulose and the effect of salts on sol-gel transition. <i>N. Almeida, L. Rakesh and J. Zhao</i>	SG9. WLF to Arrhenius dynamic transition in nanocomposites. <i>G. P. Baeza, C. Dessi, D. Zhao, A. Alegria, D. Vlassopoulos and S. K. Kumar</i>	NF9. Disclination in nematic liquid crystal. <i>C. Zhang, X. Zhang, A. Acharya, N. Walkington and D. Golovaty</i>
3:10	SC10. Rheology in hydrate formation at atmospheric pressure. <i>P. H. de Lima Silva, A. S. Stender, M. Barçante, M. F. Naccache, P. R. de Souza Mendes and A. P. Gramatges</i>	SM10. Nonlinear extensional behavior of an A-B-A thermoplastic elastomer near $T_{g,A}$. <i>L. Martinetti, F. S. Bates and C. W. Macosko</i>	IR10. Interfacial self-assembly in the elasto-capillary regime. <i>A. A. Evans</i>		SG10. Design of yield-stress fluids: A rheology-to-structure inverse problem. <i>A. Z. Nelson and R. H. Ewoldt</i>	NF10. An immersed boundary method for fluid-structure interactions in a nematic liquid crystal. <i>S. E. Spagnolie</i>
3:35	COFFEE BREAK					
4:00	SC11. A minimal model for the hydrodynamics of colloidal gelation. <i>J. W. Swan and Z. Varga</i>	SM11. Linear and extensional rheology of butyl rubber. <i>J. Bielby and D. Adkinson</i>	IR11. Influence of interfacial rheology on the volume of liquid entrained in a foam film. <i>J. M. Frostad, D. Tammaro, L. Santollani, S. Bochner de Araujo and G. G. Fuller</i>	BM11. Characterizing and understanding protein stability and rheology at high concentrations. <i>W. Qi, S. Kenyon, S. Blake, M. Majumdar, S. Amin and E. N. Lewis</i>		NF11. Morphology and rheology of micelle and micelle-nanoparticle solutions: A molecular dynamics study. <i>A. Sambasivam, S. Dhakal and W. Sureshkumar</i>
4:25	SC12. Gel formation and rheology of short range attractive nanocolloidal suspensions and their mixtures. <i>D. Bahadur, S. Ramakrishnan, R. L. Leheny and J. Telotte</i>	SM12. Recent developments in extensional rheology. <i>N. J. Alvarez, Q. Huang, S. Wingstrand, L. Hengeller, A. Shabbir and O. Hassager</i>	IR12. Effect of pH changes on the rheology of unsaturated zwitterionic and anionic phospholipids at the air-water interface. <i>S. Ghazvini and P. Dhar</i>	BM12. Dilatation air bubbles in solution: A rheological study of their effects on therapeutic antibody stability. <i>G. L. Lin, J. Pathak, V. Riguero, M. Carlson, J. Buff and G. G. Fuller</i>	SG12. Shear banding in time dependent flows of soft glassy materials. <i>R. Radhakrishnan and S. M. Fielding</i>	NF12. Immersed boundary methods for particles in viscoelastic fluids. <i>S. Krishnan, E. S. Shaqfeh and G. Iaccarino</i>
4:50	SC13. Residual stresses in colloidal gels. <i>E. Moghimi and G. Petekidis</i>	SM13. Exploring necking instability in polymeric solutions with single DNA molecules. <i>P. E. Boukany and S. Sachdev</i>	IR13. Estimating strain-dependent interfacial rheological properties of the encapsulation of lipid-coated mono-disperse microbubbles using broadband attenuation at different pressure amplitudes. <i>K. Sarkar, L. Xia and T. M. Porter</i>	BM13. Correlating protein-protein interactions and solution viscosities at high concentration. <i>M. A. Woldeyes, E. M. Furst and C. J. Roberts</i>	SG13. The Kovacs aging signatures in colloidal glasses. <i>X. Peng and G. B. McKenna</i>	NF13. Computational modeling of suspension flow in pipes with generalized Newtonian matrix fluids. <i>N. S. Marty, C. F. Ferraris and W. L. George</i>
5:15	SC14. Delayed yield in reversible colloidal gels: A micro-mechanical perspective. <i>R. N. Zia, B. J. Landrum and W. B. Russel</i>	SM14. Stretch-relaxation of DNA molecules in semidilute solutions. <i>C. Sasmal, H. Kai-Wen, C. M. Schroeder and J. R. Prakash</i>	IR14. A mesoscale computational study on the effectiveness of surface-active molecules on droplet dynamics and break-up. <i>A. Boromand, R. D Apolito, S. Jamali, V. Preziosi, G. Tomaiuolo, S. Guido and J. Maia</i>	BM14. Deciphering the thermodynamic underpinnings of increased solution viscosity in crowded monoclonal antibody solutions. <i>R. Keeling, P. Ke, R. Curtis, P. S. Sarangapani, S. Ekizoglou, R. L. Jones, S. Uddin, C. F. van der Walle and J. Pathak</i>	SG14. A model for aging under deformation field, residual stresses and strains in soft glassy materials. <i>Y. M. Joshi</i>	NF14. Migration of rigid particles in two-phase shear flow of viscoelastic fluids. <i>N. O. Jaensson, M. A. Hulsen and P. D. Anderson</i>
5:40	SC15. Structural anisotropy and rheological behavior of colloidal gel under start-up shear. <i>P. Jun Dong, A. Kyung Hyun and N. J. Wagner</i>	SM15. Extensional rheology and printability of polymer solutions. <i>J. Dinic, L. N. Jimenez, Y. Zhang and V. Sharma</i>	IR15. The role of interfacial charge transport on the deformation and relaxation of a low-conductivity drop exposed to a DC electric field. <i>J. Lanzaue, L. M. Walker and A. S. Khair</i>	BM15. A "syringe-on-chip" device for quantitative injectability study of concentrated protein solutions. <i>A. Lanzaro, R. Curtis, J. Pathak and X.-F. Yuan</i>	SG15. Rheology of polyethylene/oxidized polyethylene blends and blend-nanocomposites with graphene and surface functionalized graphene. <i>M. Z. Iqbal, F. C. Prehn Jr., A. A. Ahmed, B. G. Stephen and M. W. Liberatore</i>	NF15. Non-equilibrium depletion interactions: First particles attract, then they repel. <i>B. E. Dolata and R. N. Zia</i>
6:05	END					
7:00	BALTIMORE AQUARIUM RECEPTION National Aquarium / 7:00-9:30					

Tuesday, October 13

Morning

8:30	PL2. Slow dynamics of components in miscible polymer blends. <i>H. Watanabe</i> (Bingham Lecture) Constellation D-F					
9:20	COFFEE BREAK					
	<i>Constellation C</i>	<i>Constellation D</i>	<i>Constellation E</i>	<i>Constellation F</i>	<i>Baltimore/Annapolis</i>	<i>Frederick/Columbia</i>
	Suspensions and Colloids	Polymer Solutions and Melts	Self-assembled Systems and Gels	Biological Macromolecules	Solids, Glasses, and Composites	Non-Newtonian Fluid Mechanics
10:00	SC16. Shear stress induced microstructure in concentrated silica dispersions. <i>J. Lee, X.-M. Lin, A. R. Sandy and S. Narayanan</i>	SM16. Exact analytical solution for large-amplitude oscillatory shear flow. <i>C. Saengow, A. J. Giacomin and C. Kilitawong</i>	SA1. Dynamic transitions of colloidal gels measured using multiple particle tracking microrheology. <i>M. D. Wehrman, S. Lindberg and K. M. Schultz</i>	BM16. Macroscopic rheology of human blood: Effects of cholesterol and triglycerides. <i>A. J. Apostolidis and A. N. Beris</i>	SG16. The role of polymer composite binder on mechanics and performance of lithium ion battery electrodes. <i>T. Humplik, A. M. Grillet, D. A. Barringer, E. K. Stirrup, K. N. Long, H. Mendoza, S. A. Roberts, C. A. Apblett and K. R. Fenton</i>	NF16. Testing an elastic instability criterion in a planar elongational flow. <i>S. J. Haward, G. H. McKinley and A. Q. Shen</i>
10:25	SC17. Timescales of microstructure relaxation in sheared colloidal hard sphere suspensions. <i>R. Damer, R. Sanctuary and J. Baller</i>	SM17. Fingerprinting the non-linear response of a polystyrene solution: Comparison of strain controlled and stress controlled mechanical spectral hole burning. <i>Z. Qian and G. B. McKenna</i>	SA2. Avalanche-like fluidization of a colloidal gel. <i>A. Kurokawa, V. Vidal, K. Kurita, T. Divoux and S. Manneville</i>	BM17. The rheology of nanoparticles in blood for improved cancer therapy. <i>E. Carboni, Y. Guo, G. Bouchillon, A. Kadilak, L. Shor and A. Ma</i>	SG17. A comprehensive constitutive framework for describing the non-isothermal rheology of waxy crude oil. <i>M. Geri and G. H. McKinley</i>	NF17. Dynamics and flow structures of the laminar-turbulent edge state for understanding polymer drag reduction. <i>L. Xi</i>
10:50	SC18. Rheology and microstructure of soft to rigid shear-thickening colloidal suspensions. <i>S. Jamali, A. Boromand, N. J. Wagner and J. Maia</i>	SM18. A library of rheological fingerprints for medium amplitude oscillatory shear: Models and experiments. <i>N. A. K. Bharadwaj and R. H. Ewoldt</i>	SA3. Aging promoted work-hardening of a colloidal gel. <i>D. Calzolari, I. Bischofberger and V. Trappe</i>	BM18. Rheological properties of electrosterically stabilized nanocrystals of cellulose in the semi-dilute regime. <i>G. Lenfant, M.-C. Heuzey, T. M. van de Ven and P. J. Carreau</i>	SG18. Low-temperature glassy dynamics of bitumen and proposed relaxation time spectrum for polydisperse glass formers. <i>Q.-V. Laukkanen and H. H. Winter</i>	NF18. Spatial-temporal dynamics of Newtonian and viscoelastic turbulence. <i>S.-N. Wang and M. D. Graham</i>
11:15	SC19. Nanoparticle-induced gelation in bimodal slurries of highly size asymmetric particles. <i>J. Lee, S. J. Lee, K. H. Ahn and S. J. Lee</i>	SM19. Complex polymer orientation in LAOS. <i>P. H. Gilbert and A. J. Giacomin</i>	SA4. On the relaxation and dynamics of colloidal gel. <i>M. Bouzid, J. Colombo and E. Del Gado</i>	BM19. Shear-induced crystallization of poly (L-lactic acid). <i>A. Jalali</i>	SG19. A combination of large amplitude oscillatory shear and Fourier transform rheology to determine the fatigue behavior of polymers. <i>V. Hirschberg, D. Merger, M. Wilhelm and D. Rodrigue</i>	NF19. Elastic turbulence in parallel shear flows at low Reynolds numbers. <i>B. Qin and P. E. Arratia</i>
11:40	SC20. Thixotropy and viscosity bifurcation in fluid fine tailings. <i>B. Derakhshandeh</i>	SM20. Design intuition and user experience: Stress-input rheology with viscoelastic polymer systems. <i>R. E. Corman, J. Godman and R. H. Ewoldt</i>	SA5. Tuning structure in short-range attractive colloidal gels via the flow history. <i>A. Boromand, S. Jamali and J. Maia</i>	BM20. Viscoelastic properties of cartilage polymers. <i>W.-K. Oh, S. Raghavan, P. J. Bassler and F. Horkay</i>	SG20. Applying Boltzmann superposition principle to aging soft glassy materials. <i>A. Shukla and Y. M. Joshi</i>	NF20. Elastic instabilities around periodic cylinder arrays and their role on oil displacement. <i>X. Shi and G. F. Christopher</i>
12:05	LUNCH BREAK / SOCIETY BUSINESS MEETING Constellation Ballroom C / 12:05-1:30					

Afternoon

	<i>Constellation C</i>	<i>Constellation D</i>	<i>Constellation E</i>	<i>Constellation F</i>	<i>Baltimore/Annapolis</i>	<i>Frederick/Columbia</i>
	Suspensions and Colloids	Polymer Solutions and Melts	Self-assembled Systems and Gels	Biological Macromolecules	Solids, Glasses, and Composites	Non-Newtonian Fluid Mechanics
1:30	SC21. Yield and flow of non-colloidal suspensions in a pendular state. <i>J. Yang, T. Domenech and S. S. Velankar</i>	SM21. Tube deformation, chain stretching, yielding and shear thinning in entangled polymer melts: A force-level statistical mechanical approach. <i>K. S. Schweizer</i>	SA6. Permeability in fractal aggregates: Application to unstable colloidal gels. <i>A. Mertz, L. Gelb, A. Graham, M. Ingber and R. Antonio</i>	BM21. Molecular-mechanical link in a shear-induced self-assembly of a functionalised biopolymeric fluid. <i>G. E. Pavlovskaya and T. Meersmann</i>	SG21. Developing instruments to characterize and mimic building induced fatigue in polymers. <i>C. C. White and D. Hunston</i>	NF21. How elastic flow instabilities can induce motion in flexible solid structures. <i>A. A. Dey and J. P. Rothstein</i>
1:55	SC22. Theory of margination in confined multicomponent suspensions. <i>R. G. Henríquez Rivera, K. Sinha and M. D. Graham</i>	SM22. Transition from homogeneous flow to a shear banded state before and after the stress overshoot in start flow of entangled polymer melts: The influence of flow ramp speed. <i>M. Mohagheghi and B. Khomami</i>	SA7. Phase behavior of aqueous suspension of Laponite: A rheological perspective. <i>S. Jatav and Y. M. Joshi</i>	BM22. In-line rheological characterization of wood polymer composites. <i>V. Mazzanti and F. Mollica</i>	SG22. The influence of viscoelasticity and surface energy on frictional behavior of elastomers. <i>C. J. Dimitriou</i>	NF22. Non-Newtonian swirling flow near an infinite stationary disk. <i>B. Sahoo, R. van Gorder and H. Andersson</i>

2:20	SC23. The effects of particle deformability and size on single particle lateral migration in low Reynolds number flow. <u>M. Y. Hwang</u> and <u>S. J. Muller</u>	SM23. Wall slip of HDPEs: MW, MWD and surface conditions effects. <u>M. Ebrahimi</u> and <u>S. G. Hatzikiriakos</u>	SA8. Stabilization of the network structure induced by viscoelastic phase separation through self-assembly of nanorods: PS/PVME blend. <u>M. A. Sanjari Shahrezaei</u> , <u>F. Goharpey</u> and <u>J. Khademzadeh Yeganeh</u>	BM23. Relative humidity as a new parameter in rheological testing. <u>J. Laeuger</u> and <u>G. Arnold</u>	SG23. Measuring and modeling the dimensional stability of high density polyurethane foams. <u>K. N. Long</u> , <u>L. A. Mondy</u> , <u>C. C. Roberts</u> , <u>H. Deng</u> , <u>M. C. Celina</u> and <u>R. R. Rao</u>	NF23. Slow flow of a Boger fluid around a solitary cylinder. <u>D. F. James</u> , <u>T. Shiau</u> and <u>P. Aldridge</u>
2:45	SC24. Relative viscosity trends of bimodal suspensions containing rigid and soft particles. <u>A. Chaturbedi</u> , <u>B. Schendt</u> and <u>N. C. Shapley</u>	SM24. Stick-slip transition and shear banding in entangled solutions based on polybutadiene of ultra high molecular weight. <u>M. Wang</u> , <u>T. Liu</u> and <u>S.-Q. Wang</u>	SA9. Relationship between rheology, calorimetry and structure properties in thermo-responsive laponite-Pluronic micellar solutions. <u>I. Boucenna</u> , <u>M.-A. Guedeau-Boudeville</u> , <u>L. Royon</u> , <u>A. Mourchid</u> and <u>P. Colinart</u>	BM24. Study of the phase change behavior of food ingredients using rheo-microscopy. <u>T. D. Perera</u> and <u>G. Paroline</u>	SG24. The effect of polymer rheological behavior on the morphology and flame retardant behavior of co-extruded multi-layered PP/foamed PP structures. <u>S. Lee</u> and <u>J. Maia</u>	NF24. The effect of fluid rheology on slot die coating. <u>S. Khandavalli</u> and <u>J. P. Rothstein</u>
3:10	SC25. Dependence of shear-induced particle migration on inner/outer fluid viscosity ratio. <u>Y.-L. Chen</u> , <u>S.-H. Wang</u> and <u>W.-T. Yeh</u>	SM25. Edge fracture and shear banding in a highly entangled polystyrene solution. <u>Y. Li</u> and <u>G. B. McKenna</u>	SA10. Directed assembly of Janus rods in binary blends of polymers. <u>S. Khani</u> , <u>S. Jamali</u> , <u>A. Boromand</u> and <u>J. Maia</u>	BM25. Measuring adhesion between uropathogenic E. coli and bladder-epithelial cells. <u>E. C. Hollenbeck</u> , <u>L. Cegelski</u> and <u>G. G. Fuller</u>	SG25. Evaluating the performance of a stress model of long-fiber suspensions in simple flows. <u>G. M. Lambert</u> , <u>M. J. Cieslinski</u> and <u>D. G. Baird</u>	
3:35			COFFEE BREAK			
4:00		SM26. Molecular dynamics and slip-spring model simulations of branched polymer. <u>J. Zhu</u> , <u>Z. Wang</u> and <u>A. E. Likhtman</u>	SA11. A comparison of linear and branched wormlike micelle solutions using LAOS and orthogonal superposition rheometry. <u>S. Khandavalli</u> , <u>J. Hendricks</u> , <u>C. Clasen</u> and <u>J. P. Rothstein</u>		SG26. Interaction between long flexible fibers in squeeze flow. <u>G. Meirson</u> and <u>A. N. Hrymak</u>	
4:25	SC27. Towards a continuum modeling of shear thickening suspensions? <u>R. Mari</u> , <u>R. Seto</u> , <u>J. F. Morris</u> and <u>M. M. Denn</u>	SM27. Solution and melt rheology of symmetric star-shaped poly (hydroxybutyrate) generated from immortal ring opening polymerization of β -butyrolactone. <u>E. Tannaz</u> , <u>M. Parisa</u> and <u>S. G. Hatzikiriakos</u>	SA12. Effect of branching on shear banding in wormlike micelles (WLMs) under large amplitude oscillatory shear (LAOS). <u>M. A. Calabrese</u> , <u>N. J. Wagner</u> and <u>S. A. Rogers</u>		SG27. Mechanisms of natural fibre breakage during composite compounding: Rheo-optical observations and fibre size distribution study. <u>R. Castellani</u> , <u>E. Di Giuseppe</u> , <u>T. Budtova</u> and <u>B. Vergnes</u>	NF26. Flow instability in a micro-cavity swept by a visco-elastic fluid. <u>H. Suzuki</u> , <u>R. Hidema</u> and <u>Y. Komoda</u>
4:50	SC28. A population balance based, coarse grained, evolution equation for microstructure in thixotropic colloidal dispersions. <u>P. M. Mwasame</u> , <u>A. N. Beris</u> and <u>N. J. Wagner</u>	SM28. Classification of thermorheological complexity in polyethylene and other single phase polymer melts. <u>F. J. Stadler</u>	SA13. Testing shear-induced breakage as the mechanism of shear banding for linear wormlike micelles. <u>P. Cheng</u> , <u>G. Leal</u> and <u>M. E. Helgeson</u>		SG28. An ultrasonic approach to study the rheological behavior of raw Asian noodles. <u>A. Salimi-Khorshidi</u> , <u>A. Strybulevych</u> , <u>D. Daugelaite</u> , <u>M. G. Scanlon</u> , <u>J. H. Page</u> and <u>D. W. Hatcher</u>	NF27. Numerical simulation of the flow of an asymmetric magnetic fluid in a driven cavity. <u>Y. D. Sobral</u> , <u>A. P. Reis</u> , <u>C. O. Vieira</u> and <u>F. R. Cunha</u>
5:15	SC29. Making jammed particle suspensions flow: Slow and high shear rate cooperative rearrangements. <u>V. Venkatesh</u> , <u>S. Dutta</u> , <u>E. Del Gado</u> and <u>D. Blair</u>	SM29. Conversion of creep compliance to dynamic moduli using Laplace transform and complex decomposition method. <u>S. H. Lee</u> and <u>K. S. Cho</u>	SA14. Structural dynamics of lamellar surfactant solutions in planar extensional flow. <u>B. Luo</u> and <u>W. R. Burghardt</u>			NF28. Investigation of nail enamel properties utilizing rheology, indentation, and scratch testing. <u>P. A. Kamerkar</u> and <u>P. Morel</u>
5:40	SC30. Wall slip in suspensions of thermo-responsive particles. <u>T. Divoux</u> , <u>V. Lapeyre</u> , <u>V. Ravaine</u> and <u>S. Manneville</u>	SM30. Power series approximation of continuous relaxation spectrum by the Fuoss-Kirkwood relations. <u>S. H. Lee</u> , <u>J.-E. Bae</u> and <u>K. S. Cho</u>	SA15. Rheology of multilamellar vesicle ("onion") formation and instability. <u>N. J. Wagner</u> , <u>L. Gentile</u> and <u>U. Olsson</u>			NF29. Nonlinear nanorheology of hydration layer. <u>W. Jhe</u>
6:05			END			
7:00			AWARDS RECEPTION Foyer/Atrium / 7:00-8:00			
8:00			AWARDS BANQUET Constellation D-F			

Wednesday, October 14

Morning

8:30 **PL3.** Flow in disordered systems: From simple fluids to athermal solids. *M. O. Robbins, J. Clemmer, V. Jadhao and K. M. Salerno* Constellation D-F

9:20 COFFEE BREAK

	<i>Constellation C</i>	<i>Constellation D</i>	<i>Constellation E</i>	<i>Constellation F</i>	<i>Baltimore/Annapolis</i>	<i>Frederick/Columbia</i>
	Suspensions and Colloids	Polymer Solutions and Melts	Self-assembled Systems and Gels	Computational Rheology	Probe Microrheology	Micro and Nanofluidics
10:00	SC31. Transient yield in reversible colloidal gels: A micro-mechanical perspective. <i>L. C. Johnson, B. J. Landrum and R. N. Zia</i>	SM31. Nonequilibrium thermodynamic modeling of semi-dilute polymer solutions. <i>S. Hooshyar and N. Germann</i>	SA16. Soft solid rheology near the gel point. <i>H. H. Winter</i>	CR1. Dissipative Particle Dynamics with diffusion and reaction: Application to blood clotting. <i>A. Yazdani, L. Zhen, B. Caswell and G. E. Karniadakis</i>	PM1. The influence of compressibility on a probe translating through a fluid-fluid interface. <i>J. R. Samaniuk, M. Nagel, A. Leth-Espensen and J. Vermant</i>	MN1. Massive elasticity-driven particle accumulation of confined suspensions in kinked and tortuous geometries. <i>A. C. Barbati, A. Robisson and G. H. McKinley</i>
10:25	SC32. The mechanics of particle bonds and the elastic modulus of cluster gels. <i>E. M. Furst and K. A. Whitaker</i>	SM32. Towards a better understanding of shear flow cessation from experimental and slip-link model comparison. <i>T. B. Schweizer, M. Katzarova and J. D. Schieber</i>	SA17. Critical-gel-like response and fractional dynamics of an A-B-A thermoplastic elastomer near T_{gA} . <i>L. Martinetti, F. S. Bates and C. W. Macosko</i>	CR2. Non-equilibrium properties of sheets in shear flow. <i>A. Varghese, G. Gompper and R. G. Winkler</i>	PM2. Probing microrheology with and without probes by differential dynamic microscopy. <i>A. V. Bayles, Y. Gao, T. M. Squires and M. E. Helgeson</i>	MN2. Size-selective collection of particles using vortical flows in inertial microfluidics. <i>H. Haddadi and D. Di Carlo</i>
10:50	SC33. Aging and nonlinear rheology of thermoreversible colloidal gels. <i>M. B. Gordon, C. J. Kloxin and N. J. Wagner</i>	SM33. Influence of chain stiffness on the thermal and rheological properties of polycarbonate copolymers. <i>M. Chellamuthu</i>	SA18. Normal force controlled rheology for thermoreversible gels. <i>B. Mao, P. Snabre and T. Divoux</i>	CR3. Numerical simulations of the rheology of suspensions of rigid spheres in a viscoelastic fluid under shear. <i>E. S. Shaqfeh, M. Yang and G. Iaccarino</i>	PM3. The impact of hydrodynamics on stress formation, relaxation, and memory in colloidal dispersions: Transient, non-linear microrheology. <i>R. P. Mohanty and R. N. Zia</i>	MN3. Towards producing and characterizing vesicle suspensions for studies of cross stream migration in channel flow. <i>K. J. Storslett and S. J. Muller</i>
11:15	SC34. The formation of structures in anisotropic colloidal glasses and gels containing weakly adsorbing polymers. <i>S. Kishore and S. R. Bhatia</i>	SM34. Effect of hydration on the mechanical performance of anion exchange membranes. <i>B. R. Caire, M. A. Vandiver, A. M. Herring and M. W. Liberatore</i>	SA19. Laponite and laponite-PEO hydrogels with enhanced elasticity in phosphate-buffered saline. <i>X. Liu and S. R. Bhatia</i>	CR4. Accelerated Stokesian Dynamics simulations of active microrheology: Microviscosity, microdiffusivity and suspension stress. <i>Y. Su, K. L. Gu, H. C. Chu, N. J. Hoh and R. N. Zia</i>	PM4. Non-continuum intermolecular correlated displacements in complex fluids. <i>Z. E. Dell, B. Tsang, L. Jiang, S. Granick and K. S. Schweizer</i>	MN4. Capsule dynamics in microfluidic junctions. <i>P. Dimitrakopoulos</i>
11:40	SC35. Reversible structure formation in aluminum trihydroxide/PDMS dispersions. <i>C. J. Cox, T. D. Fornes and S. A. Khan</i>	SM35. Effects of nanographene on rheological properties of polyamide 6/acrylonitrile-butadiene-styrene nanocomposites. <i>A. Mojarrad and M. Zarghami Dehaghani</i>	SA20. Polymer gelants for repair of leaky wellbores in CO ₂ storage formations. <i>M. Shafiqi, S. Bryant, R. T. Bonnecaze, M. Balhoff, C. Huh, P. Bommer, F. Ho, V. Shakenov and D. Paulami</i>	CR5. A "matrix-free" Brownian dynamics approach for hi-fidelity simulation of semi-dilute polymeric solutions. <i>A. Saadat and B. Khomami</i>	PM5. Passive microrheological characterization of the degradation of covalently adaptable hydrogel scaffolds. <i>F. S. Escobar IV, D. D. McKinnon, K. S. Anseth and K. M. Schultz</i>	MN5. Stokes trap: Multiplexed particle trapping and manipulation using precision microfluidics. <i>C. M. Schroeder and A. Shenoy</i>

12:05 LUNCH BREAK

Afternoon

	<i>Constellation C</i>	<i>Constellation D</i>	<i>Constellation E</i>	<i>Constellation F</i>	<i>Baltimore/Annapolis</i>	<i>Frederick/Columbia</i>
	Suspensions and Colloids	Polymer Solutions and Melts	Self-assembled Systems and Gels	Computational Rheology	Probe Microrheology	Micro and Nanofluidics
1:30	SC36. Experiments to characterize particle flotation in a curing epoxy. <i>L. A. Mondy, S. A. Altobelli, A. M. Grillet, H. Deng, C. C. Roberts, M. M. Soehnel, R. R. Rao, J. E. Bower, C. F. Brooks and A. K. Kaczmarowski</i>	SM36. SAXS/WAXS measurements of HDPE crystallization during uniaxial extensional flow. <i>E. M. McCready and W. R. Burghardt</i>	SA21. The sequencing of dynamic rheological measurement. <i>S. A. Rogers, M. A. Calabrese and N. J. Wagner</i>	CR6. Using the discrete sliplink model to predict flows in complex geometries. <i>J. D. Schieber, H. Feng and A. Marat</i>	PM6. Towards probe-free microviscometry of cells. <i>Z. S. Khan, N. Kamyabi and S. A. Vanapalli</i>	MN6. Shape controllable wax microparticle generation using microfluidics and droplet impact. <i>D. Lee, S. Beesabathuni and A. Q. Shen</i>
1:55	SC37. Silica nanoparticles in cocontinuous blends. <i>H. Sijia, B. Lian, X. Cheng, C. W. Macosko and M. Trifkovic</i>	SM37. Transient shear rheology of a thermotropic liquid crystalline polymer below the melting point. <i>C. Qian, C. D. Mansfield and D. G. Baird</i>	SA22. Nonlinear shear rheology of a supramolecular organogelator. <i>A. Louhichi, A. R. Jacob, L. Bouteiller and D. Vlassopoulos</i>	CR7. Self-organization of end-functionalized semiflexible polymer suspensions at equilibrium and under shear flow. <i>J. S. Myung, R. G. Winkler and G. Gompper</i>	PM7. Multi particle tracking microrheology probing structure and flow of turbid, concentrated colloidal dispersions. <i>N. Willenbacher and C. Weis</i>	MN7. Diamagnetic-levitation viscometer based on electro-magnetically spinning system. <i>Y. Shimokawa, Y. Matsuura, T. Hirano and K. Sakai</i>

2:20	SC38. Experiments and modelling of the thinning and breaking of particle suspension filaments. <i>C. Clasen, O. G. Harlen, C. McIlroy, W. Mathues, M. Rubio and A. Sevilla</i>	SM38. Flow and thermal profiles of fused deposition modeling extrusion. <i>J. E. Seppala, K. E. Hillgarter, A. M. Forster and K. B. Migler</i>	SA23. Nonlinear rheology and cavitation of a triblock copolymer gel. <i>S. Kundu, S. M. Hashemnejad, M. Zabet, S. Mishra and M. Namani</i>	CR8. Entanglement loss during crazing of glassy polymers is not geometrically necessary. <i>R. S. Hoy, T. Ge, S. Anogiannakis, C. Tzoumanekas and M. O. Robbins</i>	PM8. Quantitative imaging of fluid systems under flow: Novel 3D rheoscope option for rotational rheometers. <i>A. J. Franck</i>	MN8. Continuous shear-rate and disposable microfluidic viscometers for complex fluid rheology. <i>S. Gupta and S. A. Vanapalli</i>
2:45	SC39. Rheology of cellulose nanofibers suspensions. <i>B. Nazari and D. W. Bousfield</i>	SM39. Simultaneous rheology and Raman spectroscopic measurements during polyethylene crystallization. <i>A. P. Kotula, M. W. Meyer, F. De Vito, J. P. Plog, A. R. Hight Walker and K. B. Migler</i>	SA24. Stochastic modeling of networked fluids. <i>L. Zhou and L. P. Cook</i>	CR9. Viscoelastic properties of an entangled polymer melt by probe rheology simulation. <i>M. Karim, T. Indei, J. D. Schieber and R. Khare</i>	PM9. Combined DLS-optical microrheology and Raman spectroscopy: A novel tool for probing self-assembly and gelation in complex fluids. <i>S. Amin, S. Blake, S. Kenyon, M. Majumdar and E. N. Lewis</i>	MN9. Effects of contraction ratio on elastic instability of sodium hyaluronate solution in a micro channel. <i>R. Hidema, T. Oka, H. Suzuki and Y. Komoda</i>
3:10	SC40. Structure and rheological properties of rod-shaped cellulose nanocrystal suspensions in aqueous dilute polymer solutions. <i>Y. Boluk, H. Oguzlu and Z. Khalili</i>	SM40. Qualitative and quantitative SAXS/WAXS studies of shear-induced crystallization of poly(1-butene). <i>M. S. Kweon, B. Luo and W. R. Burghardt</i>	SA25. The fluidity model for the mechanical description of thixotropic elasto-viscoplastic materials. <i>P. R. de Souza Mendes, R. L. Thompson, B. Abedi and L. R. Sica</i>	CR10. Molecular dynamics of polymer melt crystallization. <i>T. Vasilij, J. Rottler and S. G. Hatzikiriakos</i>		MN10. Polymer solution flow in porous media: Pore and macro scale analyses. <i>N. Lima, R. Dias and M. S. Carvalho</i>
3:35			COFFEE BREAK			
4:00	SC41. Inkjet printing of carbon nanotube suspensions. <i>Y. Guo, B. Bognet, H. Patanwala, S. Vora and A. Ma</i>	SM41. Understanding and modelling the dynamics of entangled linear associative polymer melts. <i>E. van Ruyambeke, L. Hawke, A. Sharma and H. Goldansaz</i>	SA26. Structure and rheology of Pluronic® tri-block copolymer binary mixtures self-assembled micelles in the protic ionic liquid ethylammonium nitrate. <i>R. Chen, C. R. López-Barrón and N. J. Wagner</i>	CR11. Hydrodynamically interacting particles confined by a spherical cavity via dynamic simulations. <i>C. Aponte-Rivera, Y. Su and R. N. Zia</i>		MN11. Microfluidic valve based on the light-activated self-assembly of a biopolymer. <i>S. Raghavan and H. Oh</i>
4:25	SC42. The mechanobiology of construction and operation of traffic networks in interstitial swarms of bacteria. <i>R. Prabhakar, A. Nagilla, C. B. Whitchurch and S. Jadhav</i>	SM42. New insight into structure healing ability of polylactic acid-graphene nanocomposites by rheological investigations. <i>M. Sabzi, L. Jiang and F. J. Stadler</i>	SA27. Effect of dispersed nanoparticles on the static structure and flow behavior of block copolymer soft solids. <i>M. M. Dao and L. M. Walker</i>	CR12. Boundary integral simulations of dissolving drops in circular tubes. <i>T. Leary and A. Ramachandran</i>		MN12. Domain expansion dynamics in stratifying foam films. <i>Y. Zhang, S. Yilixiati and V. Sharma</i>
4:50	SC43. Using a stochastic field theory to understand active colloidal suspensions. <i>Y. Qian, P. R. Kramer and P. T. Underhill</i>	SM43. Application of polymer concepts to dynamics of short-chain hydrogen-bonded liquids: Tests of the minimal model of associating polymers. <i>Y. Wang</i>	SA28. Structure and tensile properties of cross-linked Pluronic-diacrylate copolymers /ethylammonium nitrate ionoelastomers. <i>C. R. López-Barrón, R. Chen and N. J. Wagner</i>	CR13. Deformation of a viscoelastic drop in periodic planar extensional flows. <i>A. R. Malipiedi and K. Sarkar</i>		
5:15	SC44. Diffusion of an ellipsoid in bacterial suspensions. <i>X. Cheng and Y. Peng</i>	SM44. Linear and circular DNA dynamics in semi-dilute solutions. <i>K.-W. Hsiao, Y. Li, G. B. McKenna and C. M. Schroeder</i>	SA29. SAXS studies of the structure of a BCC-ordered block copolymer melt subjected to uniaxial extensional flow. <i>W. R. Burghardt and E. M. McCready</i>	CR14. Effects of polymer additives on the structural, dynamic and rheological properties of asphalt: A molecular simulation study. <i>F. Khabaz and R. Khare</i>		
5:40	SC45. Effect of hematocrit and dextran on human blood viscoelasticity. <i>G. Tomaiuolo, A. Carciati, S. Caserta and S. Guido</i>	SM45. Investigating the behavior of bead-spring chains in dilute and semi-dilute regimes: A hi-fidelity Brownian dynamics approach. <i>A. Saadat and B. Khomami</i>	SA30. Enhanced gelling properties of gelatin and xanthan mixtures due to synergistic interactions. <i>C. Wang, G. Natale, N. Virgilio and M.-C. Heuzey</i>	CR15. Inferring structure from rheology: Parameter uncertainties in fitting asymptotically-nonlinear rheology. <i>P. K. Singh and R. H. Ewoldt</i>		
6:05			END			
6:05			POSTER SESSION & RECEPTION Atrium/Harborview / 6:05-8:00			

Thursday, October 15

Morning

8:00		API. The rheology and microstructure of carbon nanotube suspensions. <u>A. Ma</u> (Metzner Award Presentation) Constellation A		
	<i>Constellation C</i>	<i>Constellation D</i>	<i>Constellation E</i>	<i>Constellation F</i>
	Suspensions and Colloids	Polymer Solutions and Melts	Self-assembled Systems and Gels	Computational Rheology
8:40	SC46. The electrorheological effect for polyhedral silsesquioxane cage structures with cyanopropyl functional groups. <u>C. McIntyre and M. Sturm</u>	SM46. Single molecule dynamics of DNA comb polymers. <u>C. M. Schroeder and D. J. Mai</u>	SA31. Flow and gelation of a suspension of microfibers. <u>A. Perazzo, J. K. Nunes, S. Guido and H. A. Stone</u>	CR16. Program to extract continuous and discrete relaxation spectra from linear rheology. <u>S. Shanbhag and A. Takeh</u>
9:05	SC47. In-situ simultaneous rheo-conductivity and rheo-impedance spectroscopy measurements of strongly conductive complex fluids. <u>A. Helal, X. W. Chen, T. Divoux, Y.-M. Chiang and G. H. McKinley</u>	SM47. Constraint release leads to size-dependent diffusivity of nanoparticles in solutions of unentangled polyelectrolytes. <u>R. Poling-Skutvik, R. Krishnamoorti and J. C. Conrad</u>	SA32. Star telechelic poly(L-lactide) ionomers. <u>A. D. Kulkarni, A. K. Lele, S. Swaminathan, P. R. Rajmohanam, V. Sachin and A. Chatterji</u>	CR17. An efficient log-conformation stabilization. <u>P. Knechtges, M. Behr and S. Elgeti</u>
9:30	SC48. Alignment dynamics of magnetic microdisks in rotating magnetic field. <u>M. Tan, H. Song, A. Jander, P. Dhagat and T. W. Walker</u>	SM48. Size, shape and diffusivity of a single Debye-Hückel polyelectrolyte chain in solution. <u>W. C. Soysa, B. Duenweg and J. R. Prakash</u>	SA33. How do amphiphilic biopolymers gel blood? An investigation using optical microscopy. <u>S. Raghavan, I. C. MacIntire and M. B. Dowling</u>	CR18. Predicting density variation from polyurethane process modeling. <u>R. R. Rao, L. A. Mondy, K. N. Long, C. C. Roberts, M. M. Soehnel, M. C. Celina, H. Deng, V. E. Brunini and J. J. Tinsley</u>
9:55		COFFEE BREAK		
10:25	SC49. Rheology of cubic particles suspended in both a Newtonian fluid and a concentrated colloidal dispersion. <u>C. D. Cwalina and N. J. Wagner</u>	SM49. A microstructural constitutive model for the rheology of solutions of flexible unentangled polymers. <u>R. Prabhakar and M. J. Shaw</u>	SA34. Improved mechanical behavior with multicomponent nanocomposite hydrogels. <u>W. L. Hom and S. R. Bhatia</u>	CR19. Concentration coupled flow instability of hard sphere glasses: Modeling and simulation. <u>H. Jin, K. Kang, K. H. Ahn and J. Dhont</u>
10:50		SM50. Exploring the effects of compatibilizer on the morphology and interface of polymer blends by means of rheology and dielectric spectroscopy. <u>A. Bharati, R. Cardinaels, M. Wübbenhorst and P. Moldenaers</u>	SA35. Rheology and microstructure of capillary force induced gels. <u>S. S. Huprikar, A. V. Orpe and A. K. Lele</u>	CR20. A constitutive model for monodisperse and polydisperse entangled polymers incorporating binary entanglement pair dynamics and a configuration dependent friction coefficient. <u>D. W. Mead, N. Banerjee and J. Park</u>
11:15		SM51. Rheology of polymer nanocomposites using novel evaluation of oscillatory shear flow data. <u>M. Kracalik</u>		
11:40		SM52. Interpenetration, entanglements and bonding interactions in dendronized polymers. <u>D. Vlassopoulos, S. Costanzo, L. Scherz, T. B. Schweizer, M. Kroger and D. Schluter</u>		
12:05			END	

Poster Session

Wednesday 6:05 PM – 8:00 PM Atrium/Harborview

- PO1.** Rheological properties of methylcellulose in the presence of nanocellulose. L. Rakesh and R. Thota
- PO2.** Mussel-inspired self-healing nanocomposite hydrogel with dynamic mechanics by network structure. Q. Li, S. R. Mishra, P. Chen, J. B. Tracy and N. Holten-Andersen
- PO3.** Exploring elasticity and energy dissipation in mussel-inspired hydrogel transient networks. S. C. Grindy, R. Learsch and N. Holten-Andersen
- PO4.** Probing the role of cell rheology and friction on tumor cell transport using high throughput microfluidics. M. S. Ahmmed and S. A. Vanapalli
- PO5.** High shear rate rheology of protein solutions. S. D. Hudson, V. Dharmaraj and Y. Liu
- PO6.** Modeling the impact of heterogeneous composition on the extrusion driven flow of lignocellulosic biomass using a three fluid model. J. C. Duncan, M. D. Graham, D. J. Klingenberg and T. C. Scott
- PO7.** Linear and non-linear rheology of model synovial fluids. Z. Zhang and G. F. Christopher
- PO8.** Effects of granule characteristics on rheological behavior of native potato and corn starch suspensions. N. Y. Sinaki and M. G. Scanlon
- PO9.** Investigating molecular interactions between chitosan and insect cuticle protein (CPR27) using active microrheology. M. C. Vaclaw, P. Sprouse, N. T. Dittmer, M. Kanost, G. H. Stevin and P. Dhar
- PO10.** Single bacterial adhesive interactions with dental implants. S. Xu
- PO11.** Spiders tune glue viscosity to maximize adhesion. G. Amarपुरi, C. Zhang, C. Diaz, T. Blackledge, B. Opell and A. Dhiojwala
- PO12.** The rheology of nanoparticles in blood for improved cancer therapy. E. Carboni, B. Bognet, G. Bouchillon, A. Kadilak, L. Shor and A. Ma
- PO13.** Exploration of rheological and calorimetric properties of egg components as affected by high pressure processing. A. Singh and H. Ramaswamy
- PO14.** Modification of pasting and rheological properties of native tapioca starch by addition of gum arabic. A. Singh and D. Geveke
- PO15.** Determination of viscoelastic properties of polymers under physiologic conditions. E. B. Finkelstein and P. T. Mather
- PO16.** Light-responsive hyaluronic acid-based hydrogels for controlled drug delivery to pathological cavities. R. D. Corder, S. Menegatti and S. A. Khan
- PO17.** Composition-dependent rheological properties of Hagfish defense gel: A network of intermediate filament based threads and mucins. G. Chaudhary, D. S. Fudge and R. H. Ewoldt
- PO18.** Dynamics of biopolymers in cartilage extracellular matrix. W.-K. Oh and F. Horkay
- PO19.** Altered sputum microstructure as a marker of airway obstruction in cystic fibrosis patients. G. A. Duncan, J. Jung, M. P. Boyle, N. E. West, J. S. Suk and J. Hanes
- PO20.** Microstructure and rheological function of food co-texturizers. C. M. Gregson, M. Sillick, X. Yang, P. Santos and J. Layo
- PO21.** Using capillary break-up technique to study the extensional behavior of chocolate melts. F. De Vito, F. Meyer and F. Soergel
- PO22.** Applications of rheology in pharmaceutical formulation development via hot melt extrusion (HME). F. Yang
- PO23.** Examination of the viscosity of a monoclonal antibody solution as a predictor of viral filtration performance. K. D. Stewart, J. Pathak, K. J. Newell and M. Dickson
- PO24.** High throughput rheological characterization of small volume biopharmaceutical formulations. D. Nieto Simavilla, I. Akhremitchev and S.-G. Baek
- PO25.** Shear flow behavior of opuntia ficus indica (Nopal) mucilage aqueous solutions with different maturation ages. F. Rodríguez-González, C. N. Muñoz-López and J. Pérez-González
- PO26.** Cooperative motion of active Brownian spheres in three-dimensional dense suspensions. R. G. Winkler, A. Wysocki and G. Gompper
- PO27.** Dissipative particle dynamics simulation of water insoluble drugs via smart micelles. L. Rakesh
- PO28.** Numerical study of thin viscoelastic films on substrates. S. Afkhami
- PO29.** Modeling the rheological response of common food products using fractional constitutive equations. T. Kamath, C. E. Wagner and G. H. McKinley
- PO30.** A viscosity model for concentrated suspensions of rigid, randomly oriented spheroids. S. A. Faroughi and C. Huber
- PO31.** Modelling polymer structure in 3D printing. C. McIlroy and P. D. Olmsted
- PO32.** Neutron irradiation damage simulation. Y. Peng

- PO33.** Structure and rheology of binary mixtures of PEO-PPO-PEO block copolymer mixtures in the protic ionic liquid ethylammonium nitrate. *R. Chen, C. R. López-Barrón and N. J. Wagner*
- PO34.** Impact of thermal history and applied flow fields on water-swollen block copolymer micelle crystals. *M. M. Dao and L. M. Walker*
- PO35.** Rheological characterization of triblock polymer solutions for roll to roll membrane production. *E. A. Caicedo-Casso, J. Sargent, J. L. Weidman, B. W. Boudouris, W. A. Phillip and K. A. Erk*
- PO36.** Deformation effects on fracture-healing behavior of model thermoreversible triblock copolymer gels via shear rheometry. *T. Thornell, K. Subramaniam and K. Erk*
- PO37.** Rheology of self-assembled amphiphilic block copolymer mesophases. *S. Oavi and R. Foudazi*
- PO38.** Self-healing sulfur based copolymer IR lenses. *N. A. Nguyen, J. J. Griebel, J. Pyun and M. E. Mackay*
- PO39.** Rheology and structural investigation of fumed silica based shear thickening fluids. *J. Warren, S. Kundu, K. Weigandt, T. Lacy, H. Toghiani and C. U. Pittman*
- PO40.** A study of the viscosity of suspensions of solid particles: Applications to red blood cells. *F. E. Mensah*
- PO41.** Dynamics of nanoparticles in wormlike micelle solutions. *J. Lee, A. G. Iankovski, S. Narayanan, A. R. Sandy and R. L. Leheny*
- PO42.** Structural measurements of yielding colloidal gels. *J. Wang, B. J. Landrum and R. N. Zia*
- PO43.** A microstructural description of shear thickening suspensions. *A. Singh, R. Mari, R. Seto, J. F. Morris and M. M. Denn*
- PO44.** Colloids in semi-flexible networks: Templated assembly and stimuli-responsive elasticity. *N. A. K. Bharadwaj, M. Hatzell, J. G. Kang, K. S. Schweizer, P. Braun and R. H. Ewoldt*
- PO45.** Improving rheology and dispersion of graphene in polyethylene by various methods. *M. Z. Iqbal, F. C. Prehn Jr., S. G. Boyes, A. A. Abdala, V. Mittal and M. W. Liberatore*
- PO46.** Dynamic transition of a colloidal gel using multiple particle tracking microrheology. *M. D. Wehrman, S. Lindberg and K. M. Schultz*
- PO47.** Aging and jamming behavior in model soft colloidal system. *Q. Li, X. Peng and G. B. McKenna*
- PO48.** Drop formation of carbon nanotube suspensions for inkjet printing. *Y. Guo, B. Bognet, H. Patanwala and A. Ma*
- PO49.** Polymer coating over solid particles with in-situ curing: Experiments and computational insights. *S. Zhang, L. C. L. So, S. Faucher and L. Xi*
- PO50.** Rheology and microstructure of thermoreversible gels composed of adhesive hard silica rods. *R. P. Murphy and N. J. Wagner*
- PO51.** Rheology of meniscus-bound particulate suspensions. *J. Yang and S. S. Velankar*
- PO52.** Effects of confinement on the mechanical properties of hydrophobically-modified hydrogels. *C. Wang, B. D. Vogt and R. A. Weiss*
- PO53.** Transient chaos and molecule formation in chains of paramagnetic particles under rotating fields. *H. Abdi, R. Soheilian, R. Erb and C. E. Maloney*
- PO54.** Velocimetry using magnetic particles. *C. F. Brooks, M. B. Nemer, E. K. Stirrup, O. Guba, B. G. van Bloemen Waanders, H. Li, J. Buttacci and C. C. Roberts*
- PO55.** Development of liquid metal suspensions with tunable viscosity and magnetic susceptibility for magnetohydrodynamics. *F. Carle, K. Bai, J. Casara, K. Vanderlick and E. Brown*
- PO56.** A parsimonious hydrodynamic model for colloidal gelation. *Z. Varga and J. W. Swan*
- PO57.** A study of the rheological characteristics of magnetorheological (MR) fluids and the influence of periodic magnetic fields. *A. K. Latshaw*
- PO58.** Gel point determination thanks to microrheology. *J. Denis*
- PO59.** The glass transition, cyclic fatigue fracture, and the mechanics of polygonal development in cooling basalt. *M. P. Ryan*
- PO60.** Time-dependent development of viscoelastic heterogeneity during gelation of gelatin gel. *W. Sun, W. Hong and Z. Tong*
- PO61.** Determination of wax crystallization/gelation temperature by rheometry, DSC and CPM. *F. Paiva and V. Calado*
- PO62.** Strong shear thinning with a fast response in a visco-plastic suspension of long and single-walled carbon nanotubes. *S. Sakurai, K. Fuminori, D. N. Futaba and K. Hata*
- PO63.** Particle-particle interaction and shear rheology relationships in strongly flocculated particulate suspensions. *T. E. Kusuma, A. D. Stickland, R. R. Dagastine and P. J. Scales*
- PO64.** Study the rheological behavior and microstructure of bimodal highly filled PE/CaCO₃ composites. *M. Hatami, F. Goharpey and R. Foudazi*
- PO65.** Explaining interfacial behavior of a particle laden interface using microstructure analysis. *S. Barman and G. F. Christopher*
- PO66.** Particle-modified structured emulsion droplets. *T. A. Prileszky and E. M. Furst*
- PO67.** Rheology of multi-component systems of oil-in-water emulsions with associative polymers. *B. V. Farias and S. A. Khan*

- PO68.** Effect of polymer confinement on the film drainage behaviour between a deformable droplet and mica – an RICM study. *S. Borkar and A. Ramachandran*
- PO69.** Dry-brushes entropic attraction affecting the coalescence rate of viscous polymeric drops stabilized by block-copolymer surfactants. *C. Vannozzi*
- PO70.** Rheology, diffusion, and velocity correlations in the bubble model. *A. P. Roy, K. Karimi and C. E. Maloney*
- PO71.** Rheological characterization of pickering emulsions with a non-Newtonian dispersed phase. *P. Chatterjee, G. Sowiak, T. Gruttadauria and P. T. Underhill*
- PO72.** Linking the physical properties of foams generated from consumer products to in-use experience. *J. J. Nash and J. D. Martin*
- PO73.** Capsule motion in a microfluidic cross-junction. *P. M. Udipabu and P. Dimitrakopoulos*
- PO74.** Dynamics of an elastic capsule in a microfluidic T-junction. *A. Koolivand, I. Okoro and P. Dimitrakopoulos*
- PO75.** Polypropylene foam pressure drop fundamentals. *K. A. Koppi*
- PO76.** Investigation of rheological properties of PA6/TPU nanocomposites by Palierne emulsion model. *A. Mojarrad and L. Mahdavi*
- PO77.** Role of the interfacial resin-asphaltene complex films in the stability of water-in-bitumen emulsions. *R. Gupta, A. K. Schmitt, M. D. Reichert, D. S. Miller, T. J. Young, T. H. Kalantar and T.-C. Kuo*
- PO78.** Kinetics of cyclopentane hydrate formation analysis through interfacial rheology. *B. C. Leopercio, P. R. de Souza Mendes and G. G. Fuller*
- PO79.** Rheo-optical study on reverse thread-like micelles of lecithin in organic solvents. *T. Inoue and M. Furuta*
- PO80.** Microrheological study of viscoelastic materials by magnetic tweezers. *M. Tan and T. W. Walker*
- PO81.** Enhanced microfluidic mixing via a tricritical spiral vortex instability. *S. J. Haward, K. Toda-Peters, R. J. Poole and A. Q. Shen*
- PO82.** Viscoelastic flow development in planar microchannels. *L. Zhuo and S. J. Haward*
- PO83.** Flow-induced helical coiling of semiflexible polymers in structured microchannels. *R. G. Winkler, R. Chelakkot and G. Gompper*
- PO84.** Effect of polymer adsorption on vortex dynamics in micro contraction channel flow of particulate suspensions. *Y. Kim and K. H. Ahn*
- PO85.** Investigating the non-linear behaviour of semi-dilute PAAm aqueous solutions with a microfluidic, three-dimensional "cross-slot" flow geometry. *A. Lanzaro and X.-F. Yuan*
- PO86.** Stress overshoot in the start-up of shear deformation of polymer modified asphalt. *F. Khabaz and R. Khare*
- PO87.** Consequences of stress-concentration coupling in polymer solutions under transient shear flow. *M. Cromer, J. Peterson, G. H. Fredrickson and G. Leal*
- PO88.** Modeling of rheological behavior of PA6/ABS nanocomposites by power-law like model. *A. Mojarrad, M. Zarghami Dehaghani, Y. Jahani and M. Barikani*
- PO89.** The role of nanoclay in promoting co-continuous morphology in PA6/ABS blends. *A. Mojarrad and M. Zarghami Dehaghani*
- PO90.** Relaxation mechanism and molecular structure study of polymer blends by rheological and SANS experiments. *L. Hengeller, Q. Huang, A. Dorokhin, N. J. Alvarez, K. Almdal, J. Kirkensgaard, K. Mortensen and O. Hassager*
- PO91.** Effect of nanoclay on the co-continuous morphology of PA6/ABS nanocomposite blends. *A. Mojarrad, M. Zarghami Dehaghani, Y. Jahani and M. Barikani*
- PO92.** Development of high performance electrospun materials and their composites. *J. H. Park and G. C. Rutledge*
- PO93.** Flow induced crystallization of isotactic polypropylene. *F. G. Hamad, R. H. Colby and S. T. Milner*
- PO94.** Regio regularity effects on chain mobility and entanglement for poly(3-hexylthiophene). *R. Xie, E. D. Gomez and R. H. Colby*
- PO95.** Theory of flow induced molecular weight migration in polymer melts. *J. R. Dorgan*
- PO96.** Determining the effect of humidity on static friction of polymers. *K. S. Pondicherry and P. A. Kamerkar*
- PO97.** Damping and mechanical properties of semi-crystalline polymers using oscillatory rheology and molecular modeling. *Z. Cherian, B. Koo and S. Srinivasan*
- PO98.** Coil-stretch hysteresis in planar mixed flows of polymer solutions at finite concentrations. *C. Sasml and J. R. Prakash*
- PO99.** Eutectic gallium indium rheology. *U. Daalkhajjav, Y. Menguc and T. W. Walker*
- PO100.** Nonlinear rheology of oligomeric ionomers: Shear-thickening and shear-thinning behavior of sulfonated polystyrene melts. *C. Huang, Q. Chen and R. A. Weiss*
- PO101.** Shear rheometry of hydrolyzed polyacrylamide solutions for enhanced oil recovery. *A. V. Walter and K. A. Erk*
- PO102.** Optimal polyelectrolyte assembly in solution using macro and microscale flows. *N. Wilkinson, E. Ruud and C. Dutcher*

- PO103.** The effect of ionic strength on the shear rheology and microstructure of branched wormlike micelles (WLMs). *M. A. Calabrese, N. J. Wagner and S. A. Rogers*
- PO104.** Wormlike micellar solutions containing cationic surfactant and anionic hydrotropic salt. *Y. Zhao, S. J. Haward and A. Q. Shen*
- PO105.** Influence of relative humidity on the curing behavior of silicone sealants. *G. Arnold, R. Roohnia and G. Paroline*
- PO106.** How supramolecular assemblies control dynamics of associative polymers. *H. Goldansaz, E. van Ruymbeke and M. Wübbenhorst*
- PO107.** Rigorous analysis of polarized Raman scattering experiments in uniaxial deformations. *D. W. Mead*
- PO108.** Updates in rotational rheometry and viscometry. *D. J. Moonay*
- PO109.** Oscillatory tests with a QC level, ball bearing, rheometer. *F. Meyer, J. P. Plog and J. Nijman*
- PO110.** New applications for science and industry using a universal extensional fixture on a rotational rheometer. *R. Führer and J. Eickhoff*
- PO111.** Study of flow induced crystallization and shear induced orientation using polarized microscopy and imaging. *L. M. Völker-Pop and T. D. Perera*
- PO112.** New oscillatory method for determining the low temperature behavior of asphalt binders by using a dynamic shear rheometer. *O. Sack and P. Rückert*
- PO113.** Rheo-microscopy: Direct observation of microstructural changes in samples during rheological tests. *B. Rajaram*
- PO114.** Characterization of anisotropic microstructure formation using 2D-SAOS. *S. K. Cotts and B. Rajaram*
- PO115.** Investigating both torsional and bending orientation-dependent mechanical properties using a single rotational rheometer. *N. D. Hesse*
- PO116.** Applicability of passive microrheology for rheological measurements of stimulation fluids. *Y. Gao, P. Sullivan and A. Phatak*
- PO117.** Application of the Electro-Magnetically Spinning (EMS) viscometer. *M. Yasuda, P. Wyss, T. Hirano and K. Sakai*
- PO118.** The Wilhelmy balance rheometer. *J. R. Samaniuk and J. Vermant*
- PO119.** Development of electro-magnetic rheology spectrometer. *K. Sakai, M. Hirano, Y. Matsuura and T. Hirano*
- PO120.** Fluidized bed rheology. *D. Schütz, E. Riedl and G. Paroline*
- PO121.** A new dielectric-rheoSANS Instrument for simultaneous characterization of flow-dependent conductivity and microstructure of semi-solid flow battery electrodes. *J. J. Richards, P. Butler and N. J. Wagner*
- PO122.** Design with rheologically-complex materials via material function design targets. *R. E. Corman, L. Rao, N. A. K. Bharadwaj, J. T. Allison and R. H. Ewoldt*
- PO123.** Dynamic mechanical analysis under controlled conditions of temperature and relative humidity. *D. A. Bohnsack*
- PO124.** Granular flow in two-dimensional silo with oscillating exit. *K. To and H. T. Tai*

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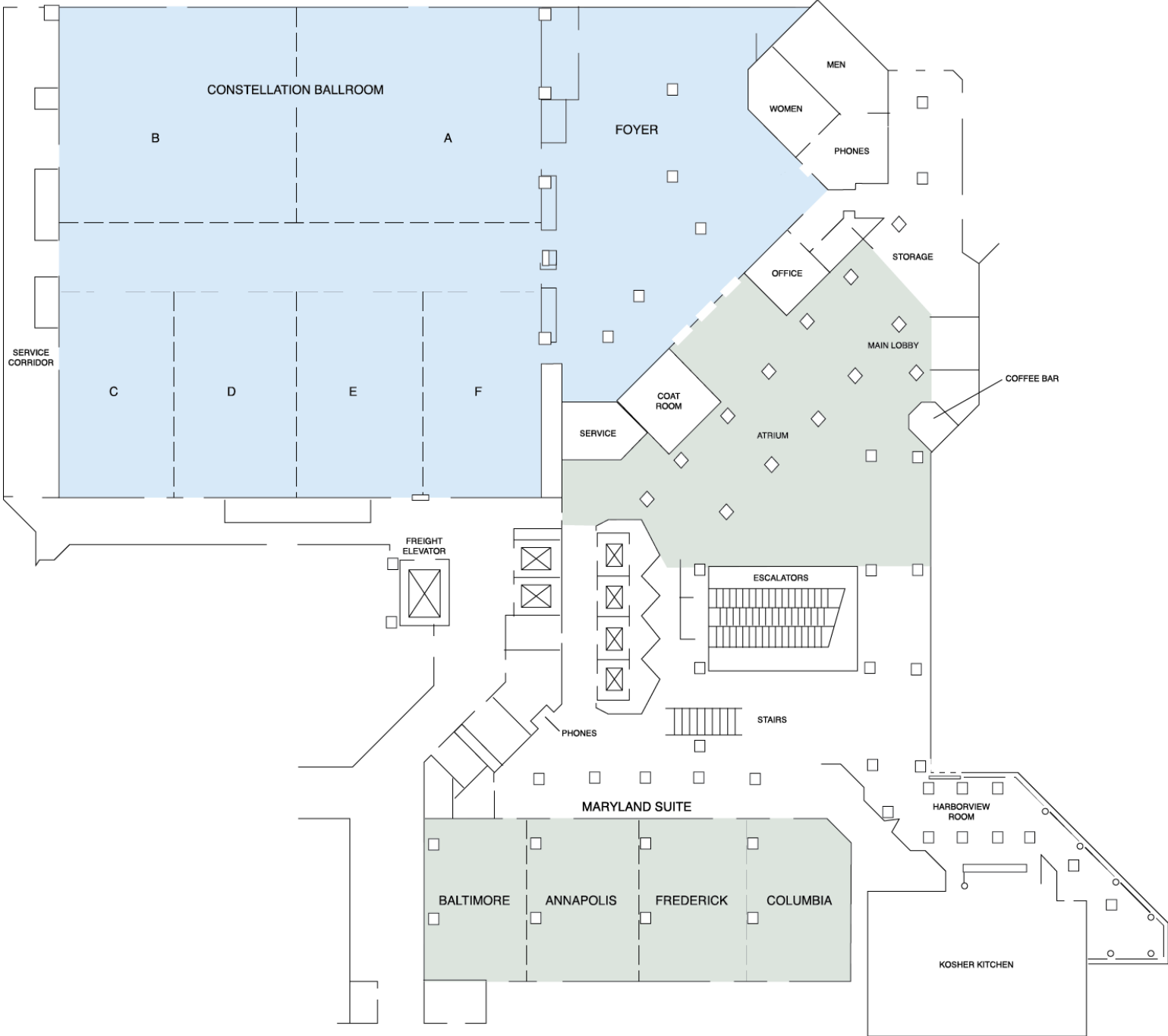
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