The Society of Rheology 96th Annual Meeting
Santa Fe Community Convention Center, Santa Fe, NM

Meeting Schedule

Monday, October 20, 2025

	SBA	*SBB*	*CD*	*PL*	*OM*	*SBC*	*SBD*
8:30				A. Q. Shen (PL1) - *SBEF*			
9:20				Coffee Break			
9:50	CS1	GN1	SM1	AR1	IR1	BL1	FI1
10:10	CS2	GN2	SM2	AR2	IR2	BL2	FI2
10:30	CS3	GN3	SM3	AR3	IR3	BL3	FI3
10:50	CS4	GN4	SM4	AR4	IR4	BL4	FI4
11:10	CS5	GN5	SM5	AR5	IR5	BL5	FI5
11:30	CS6	GN6	SM6	AR6	IR6	BL6	FI6
11:50				Lunch Break			
1:30	CS7	GN7	SM7	AR7	IR7	BL7	FI7
1:50	CS8	GN8	SM8	AR8	IR8	BL8	FI8
2:10	CS9	GN9	SM9	AR9	IR9	BL9	FI9
2:30	CS10	GN10	SM10	AR10	IR10	BL10	FI10
2:50	CS11	GN11	SM11		IR11	BL11	FI11
3:10				Coffee Break			
3:45	CS12	GN12	SM12	RG1	IR12	BL12	FI12
4:05	CS13	GN13	SM13	RG1	IR13	BL13	FI13
4:25	CS14	GN14	SM14	RG2	IR14	BL14	FI14
4:45	CS15	GN15	SM15	RG2	IR15	BL15	FI15
5:05	CS16	GN16	SM16	RG3	IR16	BL16	FI16
5:25	CS17			RG3			
5:45				End			
7:00				Monday Reception			

Tuesday, October 21, 2025

	SBA	*SBB*	*CD*	*PL*	*OM*	*SBC*	*SBD*
8:30				A. N. Beris (PL2) - *SBEF*			
9:20				Coffee Break			
9:50	CS18	GN18	SM17	RG4	IR18	BL17	FI17
10:10	CS19	GN19	SM18	RG4	IR19	BL18	FI18
10:30	CS20	GN20	SM19	RG5	IR20	BL19	FI19
10:50	CS21	GN21	SM20	RG5	IR21	BL20	FI20
11:10	CS22	GN22	SM21		IR22	BL21	FI21
11:30		GN23	SM22			BL22	
11:50				Lunch Break / Society Business Meeting			
1:30	CS23	GN24	SM23	AR11	AM1	BL23	FI22
1:50	CS24	GN25	SM24	AR12	AM2	BL24	FI23
2:10	CS25	GN26	SM25	AR13	AM3	BL25	FI24
2:30	CS26	GN27	SM26	AR14	AM4	BL26	FI25
2:50	CS27	GN28	SM27	AR15	AM5		
3:10				Coffee Break			
3:45	CS28	GN29	FR1	AR16	AM6	BL27	TM1
4:05	CS29	GN30	FR2	AR17	AM7	BL28	TM2
4:25	CS30	GN31	FR3	AR18	AM8	BL29	TM3
4:45	CS31	GN32	FR4	AR19	AM9	BL30	TM4
5:05	CS32	GN33	FR5		AM10		TM5
5:25			FR6		AM11		TM6
5:45				End			
6:30				Bus to Santa Fe Farmers' Market Pavilion			
8:00				Awards Banquet			

Wednesday, October 22, 2025

	SBA	*SBB*	*CD*	*PL*	*OM*	*SBC*	*SBD*
8:30				L. Mahadevan (PL3) - *SBEF*			
9:20				Coffee Break			
9:50	CS33	GN34	SM28	AR20	AM12	ML1	TM7
10:10	CS34	GN35	SM29	AR21	AM13	ML2	TM8
10:30	CS35	GN36	SM30	AR22	AM14	ML3	TM9
10:50	CS36	GN37	SM31	AR23	AM15	ML4	TM10
11:10	CS37	GN38	SM32		AM16	ML5	TM11
11:30	CS38	GN39					TM12
11:50				Lunch Break			
1:30	CS39	GN40	SM33	AR24	AM17	ML7	TM13
1:50	CS40	GN41	SM34	AR25	AM18	ML8	TM14
2:10	CS41	GN42	SM35	AR26	AM19	ML9	TM15
2:30	CS42	GN43	SM36	AR27	AM20	ML10	TM16
2:50	CS43			AR28		ML11	TM17
3:10				Coffee Break			
3:45	CS44	SE1	SR1			ML12	TM18
4:05	CS45	SE2	SR2			ML13	TM19
4:25	CS46	SE3	SR3			ML14	TM20
4:45	CS47	SE4	SR4			ML15	TM21
5:05	CS48	SE5	SR5				TM22
5:25							TM23
5:45				End			
6:30				Poster Session & Reception			
6:30				Gallery of Rheology Sessions			

Thursday, October 23, 2025

	SBA	*SBB*	*CD*	*SBC*
8:00		S. Jamali (MP1) - *SBEF*		
8:40		Short Break		
8:45	CS49	SE6	SR6	ML16
9:05	CS50	SE7	SR7	ML17
9:25	CS51	SE8	SR8	ML18
9:45	CS52	SE9	SR9	ML19
10:05		Coffee Break		
10:35	CS53	SE10		
10:55	CS54	SE11		
11:15	CS55	SE12		
11:35	CS56	SE13		
11:55		End		

Session and Room Codes

AM = Additive and Advanced Manufacturing
AR = Applied Rheology for Industrial Applications
BL = Biomaterials, Bio-fluid Dynamics and Biorheology
CS = Colloidal Suspensions and Granular Materials
FI = Flow-Induced Instabilities and Non-Newtonian Fluids
FR = Special Session: Future of Rheology Speakers
GI = Gallery of Rheology - Images
GN = Self-assemblies, Gels and Networks
GV = Gallery of Rheology - Videos
IR = Interfacial Rheology, Surfactants, Foams and Emulsions
ML = AI and ML in Rheology
MP = Metzner Presentation
PL = Plenary Lectures
RG = Special Session: Rheology in Geoscience
SE = Rheology and Sustainability for Energy and Production
SM = Polymer Solutions, Melts and Blends
SR = Rheology for Soft Robotics and Use of Field-Responsive Materials
TM = Techniques and Methods: Rheometry, Tribometry, Spectroscopy and Microscopy

CD = Coronado + DeVargas
OM = O'Keeffe + Milagro
PL = Peralta + Lamy
SBA = Sweeney Ballroom A
SBB = Sweeney Ballroom B
SBC = Sweeney Ballroom C
SBD = Sweeney Ballroom D
SBEF = Sweeney Ballroom E+F

Shaded = Keynote

Monday, October 20

Morning

8:30 **PL1.** Coupling rheology and microfluidics: Viscoelastic instabilities and emergent flow phenomena. *A. Q. Shen and S. J. Haward* Sweeney Ballroom E+F

9:20 COFFEE BREAK Santa Fe Community Convention Center Lobby

	Sweeney Ballroom A **Colloidal Suspensions & Granular Matls**	***Sweeney Ballroom B*** **Self-assemblies, Gels & Networks**	***Coronado + DeVargas*** **Polymer Solutions, Melts & Blends**	***Peralta + Lamy*** **Applied Rheology for Industrial Appl**	***O'Keeffe + Milagro*** **Interfacial Rheo, Surf, Foams & Emul**	***Sweeney Ballroom C*** **Biomaterials, Bio-fluid Dynm & Biorheo**	***Sweeney Ballroom D*** **Flow-Induced Instb & Non-Newt Fluids**
9:50	**CS1.** AI-powered Rheo-SAXS-XPCS analysis of cooperative rearrangement in dense colloidal suspensions. *H. He, Y. Tian, H. Liang, M. Chu, Z. Jiang, J. de Pablo, M. Tirrell, S. Narayanan and W. Chen*	**GN1.** Rheology in microgravity to elucidate fundamental transport phenomena. *P. Irace*	**SM1.** Slip-link and tube models make different predictions about entangled, star-shaped polymer relaxation. *J. D. Schieber, A. Cordoba, M. Katzarova and D. Becerra*	**AR1.** Advancements in extensional rheology of polymer melts on a rotational rheometer with dual motors. *J. P. Eickhoff Jr., J. Haeberle, J. A. Rodríguez Agudo, J. Laeuger and A. Shetty*	**IR1.** Complex thermodynamics, structure and mechanics of mixed surfactant "frenemies" on highly curved interfaces. *M. E. Helgeson, T. Sheth, A. Perez, N. Sinha, D. Zhao, G. Fredrickson and S. Shell*	**BL1.** Biofilm infections can use material from the infected organism to strengthen and protect themselves. *V. Gordon*	**FI1.** GNFFTy model predictions of flow past a cylinder in the vortex-shedding regime. *R. J. Poole and D. Geraghty*
10:10	**CS2.** Structure & dynamics of dense colloidal suspensions under oscillatory shear. *P. E. Arratia*	**GN2.** Microstructure & rheology of thermoreversible colloidal gels by 4D-RheoSANS. *N. Wagner, T. Egnaczyk, Q. Hartt, M. Kabra, K. Suman and C. Neal*	**SM2.** Development of the Mead "Semi-Toy" polydispersity model for linear and/or star polymers in arbitrary flows. *D. W. Mead*	**AR2.** Boosting flow-induced crystallization of polypropylene via vitrimerization. *C. R. López-Barrón*	**IR2.** Controlled-release of additives to improve PFAS-free firefighting foam stability. *C. J. Martinez, E. C. Malek and J. Youngblood*	**BL2.** Using exogenous polymers to engineer biofilm viscoelasticity. *B. Bhattarai and G. F. Christopher*	**FI2.** Asymptotic flow states in turbulent viscoelastic Taylor-Couette flow: The relationship between asymptotic drag states and large and small scale interactions. *F. Lin, N. Lin and B. Khomami*
10:30	**CS3.** Stored elasticity, emerging plasticity, and recovery of rigidity in yield stress fluids. *L. Bayer, H. A. Vinutha and E. Del Gado*	**GN3.** Yielding of dense protein-adjuvanted colloidal gels. *Y. C. Saraswat, R. Waheibi, C. Glover, D. Dixon, A. Langford and L. Hsiao*	**SM3.** Shear banding in simulated entangled polymer melts depends on the effectiveness of flow-induced constraint release. *L. L. Nelson, P. D. Olmsted and G. S. Grest*	**AR3.** Impact of polymer melt viscoelasticity on hollow fiber formation in segmented arc melt spinning. *K. J. Ernst, H. S. Perera, H. V. Tafreshi and S. Khan*	**IR3.** Dynamics of bubble pinchoff using mixed surfactants. *S. L. Biswal*	**BL3.** Whole-cell models of E. coli: How colloidal physics regulate ribogenesis and protein synthesis. *R. N. Zia, V. S. Sivasankar, J. L. Hofmann, T. S. Yang, A. J. Maheshwari, H. S. Sachar, J. G. Wang and D. Endy*	**FI3.** Viscoelastic effects in the bulge instability of inflated tubes. *S. Velankar, F. Rouhani, Q. Liu and B. Young*
10:50	**CS4.** Memory in amorphous solids: From micro- to macro-rheology. *C. W. Lindeman, S. R. Nagel, J. J. Griebler, P. G. Kovakas, S. A. Rogers, S. Narayanan, J. L. Harden and R. L. Leheny*	**GN4.** Surface brush density as a structural and rheological tuning parameter in a colloidal gel. *C. Zhuang, R. Campbell, P. Haghighi, S. Jamali and A. Mohraz*	**SM4.** Modelling the nonlinear shear rheology of entangled polymer solutions and melts. *M. Dalne and E. van Ruymbeke*	**AR4.** Multiscale modeling, imaging, and rheology to understand crystallization pathways for resveratrol. *R. R. Rao, C. C. Roberts, T. Janicki, H. Cleaves, T. R. Kennelly, T. Rodgers, M. Neal and Z. Nagy*	**IR4.** Interfacial rheology and foam stability in pluronics and sodium dodecyl sulfate mixtures. *S. A. Onyembe and R. Foudazi*	**BL4.** On growth and form: Living gels formed by bacteria growing in complex fluids. *S. Gonzalez La Corte, N. S. Wingreen and S. S. Datta*	**FI4.** Structure and dynamics of elastoinertial turbulence in channel and pipe flow. *M. Kumar and M. D. Graham*
11:10	**CS5.** Flow irreversibility for translational and rotational motion in dense colloidal suspensions. *A. H. Walker, E. Del Gado, J. Urbach and D. L. Blair*	**GN5.** Simulating surface brush interactions in colloidal gel assembly using angular rigidity. *R. Campbell, P. Haghighi, C. Zhuang, A. Mohraz and S. Jamali*	**SM5.** Mechanically accelerated depolymerization of entangled linear polymer melts. *L. M. Walker and J. Ahn*	**AR5.** Path-independent flow characterization of model yielding pastes. *G. J. Donley, K. Snyder, N. S. Martys and E. Del Gado*	**IR5.** Stabilizing foams: Insights from thin film dynamics and interfacial rheology. *E. Chatzigiannakis*	**BL5.** Interpenetrated GelMA/PVA hydrogels with enhanced viscoelastic and structural properties for biomedical applications. *P. Sarkar, A. G. Bernard and K. Mukhopadhyay*	**FI5.** Statistical analysis of laminar-to-turbulent transition in viscoelastic channel flows. *A. Martinez Ibarra and J. S. Park*

11:30	**CS6.** Unified microscopic theory of nonequilibrium aging, structural and stress relaxation, and residual stress in colloidal glasses after flow cessation. *K. S. Schweizer and A. Mutneja*	**GN6.** Rheological behavior of colloidal silica (Ludox) dispersion: Irreversible aging and thixotropy. *V. Kumar and Y. M. Joshi*	**SM6.** Aging in natural gas activates the relaxations of polymer melts. *M. Hajirezaei and R. Poling-Skutvik*	**AR6.** Psychophysical and rheological investigation of toothpaste tube squeezability. *B. Teoman and A. Potanin*	**IR6.** Role of internal circulation in emulsion drops on microparticle morphology. *S. Sundar, E. Hukkanen, R. Chiarella and A. Ramachandran*	**BL6.** Measuring human mesenchymal stem cell migration and remodeling in hydrogels with a spatial change in elastic modulus. *Z. Imran and K. Schultz*	**FI6.** Constitutive relations for modelling the viscoelastic response of fluids that exhibit non-monotonic steady-state response. *K. K. Yanamundra, S. P. Pillai, C. C. Benjamin and K. R. Rajagopal*
11:50			LUNCH BREAK				

Afternoon

	Sweeney Ballroom A **Colloidal Suspensions & Granular Matls**	***Sweeney Ballroom B*** **Self-assemblies, Gels & Networks**	***Coronado + DeVargas*** **Polymer Solutions, Melts & Blends**	***Peralta + Lamy*** **Applied Rheology for Industrial Appl**	***O'Keeffe + Milagro*** **Interfacial Rheo, Surf, Foams & Emul**	***Sweeney Ballroom C*** **Biomaterials, Bio-fluid Dynm & Biorheo**	***Sweeney Ballroom D*** **Flow-Induced Instb & Non-Newt Fluids**
1:30	**CS7.** Particles to fields in viscoelastic fluids. *S. Nagella, D. Y. Kim, S. Malik, E. S. Shaqfeh and S. Takatori*	**GN7.** Role of non-central forces on the structure and mechanics of colloidal gels. *P. Haghighi and S. Jamali*	**SM7.** Impact of molecular weight and polydispersity on concentration-dependent relaxation time in dilute polymer solutions. *A. M. Aisling, D. Ghasemi, N. J. Alvarez, H. W. Muller and L. Brandfellner*	**AR7.** Recombinant fibrous protein gels and functionalized polysaccharides as rheological modifiers in personal care formulations. *H. A. Faizi*	**IR7.** Effect of interdroplet interaction on rheology of highly concentrated emulsions. *M. Zhou, B. Valipour Goodarzi and R. Foudazi*	**BL7.** Impact of integrin-ligand binding specificity on the dynamics of cell-material interactions: A rheological study of the cellular microenvironment. *F. Hamid and K. Schultz*	**FI7.** Elastic turbulence and shear banding in entangled polymers and wormlike micelles. *T. Lewy, S. M. Fielding, P. D. Olmsted and R. R. Kerswell*
1:50	**CS8.** Phase-change driven dynamics in confined colloidal suspensions. *A. Pahlavan*	**GN8.** Investigating rough particle contact mechanics using optical tweezers. *M. A. Pitell, L. Woolley, J. Vermant and E. M. Furst*	**SM8.** Viscoelastic properties of physical networks: From chain branching to sticky junctions. *E. van Ruymbeke*	**AR8.** Advanced tribological techniques for the personal care products. *J. P. Eickhoff Jr. and K. S. Pondicherry*	**IR8.** A rigorous microinertia model for dilute emulsions under flow. *A. N. Beris and B. J. Edwards*	**BL8.** Spatiotemporal mapping of dynamics and viscoelasticity in ligase-fueled DNA fluids. *A. D. McGovern, E. Riggle, D. Protopapas, K. Chang, A. Razzaghi, R. J. McGorty and R. M. Robertson-Anderson*	**FI8.** Rheo-NMR of shear banding wormlike micelles. *A. Scigliani, H. Mohammadigoushki and S. C. Grant*
2:10	**CS9.** Sedimentation of flocculating non-Brownian suspensions by high-order Stokesian dynamics. *A. Z. Zinchenko*	**GN9.** Structure and dynamics of frictional vs frictionless colloidal gels. *M. Tan and S. Jamali*	**SM9.** Flow effects on associative polymers: From linear to ring macromolecule. *J. C. Bracewell, R. Sivaraj, D. Perahia, T. C. O'Connor and G. S. Grest*	**AR9.** Influence of cationic surfactant-fatty alcohol on the properties of moisturizing creams. *S. Liu, R. K. Sinha, C.-C. Chang, B. Lee and H. Bui*	**IR9.** Formulation strategies for ZnO-containing emulsions with carbomer copolymers: Overcoming carbomer-electrolyte sensitivity. *B. S. Bodnar, H. Bui, A. Poudel and A. Shah*	**BL9.** Heterogeneity in red blood cell mechanics drives altered blood rheology in sickle cell disease. *H. M. Szafraniec, F. Bull, J. Higgins, H. A. Stone, T. Krueger and D. K. Wood*	**FI9.** Unraveling the dynamics of polymer scission in porous media. *R. C. Singiser and S. S. Datta*
2:30	**CS10.** Contactless inter-particle friction due to roughness and elasticity. *B. Rallabandi, J. Minten and A. Kargar-Estahbanati*	**GN10.** Shear-induced yielding and brittle-to-ductile transition in cellulose nanocrystal gels. *L. Morlet-Decarnin, T. Divoux and S. Manneville*	**SM10.** Effect of chain length on shear and extensional rheology of polyampholyte ionomers. *N. Sadeghi and F. Khabaz*	**AR10.** Multiscale rheo-physical characterization and processing of concentrated surfactant solutions. *P. U. Kelkar, K. A. Erk, E. Tozzi and S. Lindberg*	**IR10.** Reducing emulsion drop deformation with low surface coverage: High yield particle interfaces. *A. Abutalebi and G. F. Christopher*	**BL10.** Single cells are compactly and accurately described as Fractional Kelvin-Voigt Materials. *M. Das, J. L. Waeterloos, C. Clasen and G. McKinley*	**FI10.** Finite-time blow-up: The importance of (and approximations for) marginal chain stretching effects. *J. D. Peterson, V. Chen and C. T. Drucker*

2:50	**CS11.** Three simple Stokeslet trajectories. *B. J. Landrum*	**GN11.** Adding MXenes to aqueous cellulose nanocrystal dispersions: Effects on rheology and dispersion microstructure. *F. Mekunye, M. L. Woodmansee and V. A. Davis*	**SM11.** Linking multiscale rheology and SANS study to performance of hierarchically structured PEM fuel cell catalyst layer. *M. Lee and M. Trifkovic*		**IR11.** Simulation of amphiphilicity-dependent aggregation and microstructural evolution of Janus particles at fluid interfaces. *M. Pourasgharoshtebin, B. K C, R. Khare and G. F. Christopher*	**BL11.** How do crosslink dynamics alter the yielding transition and injectability of dynamic hydrogels? *N. Eckman and E. Appel*	**FI11.** Large amplitude oscillatory extension (LAOE) of complex fluids. *S. M. Recktenwald, T. P. John, R. J. Poole, A. Q. Shen, C. P. Fonte and S. J. Haward*
3:10	COFFEE BREAK Santa Fe Community Convention Center Lobby						
	Rheology in Geoscience						
3:45	**CS12.** Dynamic response during solidification of dense suspensions. *M. Geri*	**GN12.** Explicit simulation of depletion effects in colloid-polymer mixtures. *A. Jha and S. Jamali*	**SM12.** Shear response of ionizable polymer melts from ionomers to polyelectrolytes. *S. Meedin, C. Kosgallana, G. S. Grest and D. Perahia*	**RG1.** A dynamical model for the rheology of polycrystalline glacial ice. *A. Vargas, R. Ran and J. C. Burton*	**IR12.** Characterizing yield stress mechanisms in particle laden interfaces. *K. Bhaskar, S. A. Rogers and G. F. Christopher*	**BL12.** Mechanical phase transitions in articular cartilage. *I. Cohen, L. Bonassar, M. Das and J. Omonira*	**FI12.** Recent advances in polymer viscoelasticity from general rigid bead-rod theory. *A. J. Giacomin*
4:05	**CS13.** Unified description of yielding in sheared soft particulate systems. *S. Pradeep, A. Thery, P. E. Arratia and D. J. Jerolmack*	**GN13.** Shear induced aging in polymer-silica composites. *D. D. Gray, D. Adrian, D. Ahn, S. Chen, F. Kalyn, T. Heyl, M. Hodgson, J. L. Hor and S. A. Rogers*	**SM13.** Microrheology of biosynthetic composites of DNA and NaPSS. *F. Safi Samghabadi, A. D. McGovern, R. M. Robertson-Anderson and J. C. Conrad*	**RG1** *continues*	**IR13.** The rheology of Pickering emulsions - the effect of particle hydrophobicity. *N. Finish Hakshur and M. Gottlieb*	**BL13.** Non-equilibrium micromechanics of photo-responsive biopolymer composites. *R. M. Robertson-Anderson*	**FI13.** The influence of fluid elasticity on the flow-induced response of a flexibly-mounted square prism. *H. Gong, U. N. Patel, J. P. Rothstein and Y. Modarres-Sadeghi*
4:25	**CS14.** Delayed yielding in soft glasses and gels, and the role of critical strain. *C. E. Owens*	**GN14.** Polymer-nanoparticle composite gels to mimic muscle stiffness for cultured meat platforms. *S. D. Negash, M. A. Snyder and K. Schultz*	**SM14.** Pinching dynamics and extensional rheology of dilute and entangled polymer solutions. *C. Slykas, C. Martinez Narvaez, L. Edano and V. Sharma*	**RG2.** Discovering the complex rheology of polar ice using AI and satellite data. *C.-Y. Lai and Y. Wang*	**IR14.** Interfacial rheology of lung surfactants under relevant conditions. *J. Vermant, M. C. Novaes Silva and M. Rodriguez Hakim*	**BL14.** Emergent stress transmission in active cytoskeleton composites. *A. Razzaghi, M. T. Valentine, R. J. McGorty and R. M. Robertson-Anderson*	**FI14.** Is there a relationship between the EOR polymer solutions' mechanical degradation and rheological properties? *M. S. Azad and D. Al Shehri*
4:45	**CS15.** A nested effective medium model for the rheology of crosslinking thermoset composites. *A. P. Kotula and S. Romberg*	**GN15.** Rheology and structure of multi-component attractive colloidal gels. *A. I. Kaltashov and S. Jamali*	**SM15.** Stringiness, spinnability, and sprayability of polymer solutions. *L. Edano, S. Sepahvand and V. Sharma*	**RG2** *continues*	**IR15.** Effects of molecular architecture at liquid interfaces: Interfacial rheology and neutron reflectometry of linear, ring, and dendritic polymers. *D. Rengqli, B. Thompson, J. Allgaier, M. Krutev, D. Richter, T.-C. Lin, K. Matyjaszewski, D. Vlassopoulos and N. Wagner*	**BL15.** In situ rheological monitoring of diffusion-driven bioink crosslinking in embedded 3D bioprinting. *A. Shih, S. J. Chung, F. Christakopoulos, L. G. Brunel, N. Eckman, Y. Liu, J. Tao, S. C. Heilshorn and G. G. Fuller*	**FI15.** Holey sheet: Destabilizing fluids under extreme stress. *M. Driscoll, C. Galvin, B. Blackwell and S. Nielsen*
5:05	**CS16.** Benchmarking the rheology of nanocellulose dispersions from multiple sources. *P. T. Spicer and M. Hosseini*	**GN16.** Tailoring evaporative patterns by hetero-aggregation of oppositely charged species. *S. Hariharan, S. P. Thampi and M. G. Basavaraj*	**SM16.** Extensional rheology of dilute suspensions of spheres in polymeric liquids. *A. Sharma and D. Koch*	**RG3.** Freezing flow in porous ice. *X. Fu, N. Jones, A. Eujayl, B. Zhao and A. Moure*	**IR16.** The life and death of far-from-equilibrium droplets. *L. Zarzar*	**BL16.** Investigation of shear and extensional rheology of silk fibroin in applications of tissue engineering. *L. Brunmaier and T. Walker*	**FI16.** Pressure drop in a deformable channel distinguishes Newtonian from Boger fluids. *S. Chun, I. C. Christov and J. Feng*

5:25	**CS17.** From double yielding in step-rate shear to two-step re-equilibration dynamics in colloidal attractive glasses and gels. *A. Mutneja and K. S. Schweizer*	**RG3** *continues*
5:45		END
7:00	MONDAY EVENING RECEPTION	New Mexico History Museum, until 9:00 pm

Tuesday, October 21

Morning

8:30 **PL2.** Rheology magic. A. N. Beris (Bingham Lecture) Sweeney Ballroom E+F

9:20 COFFEE BREAK Santa Fe Community Convention Center Lobby

	Sweeney Ballroom A **Colloidal Suspensions & Granular Matls**	*Sweeney Ballroom B* **Self-assemblies, Gels & Networks**	*Coronado + DeVargas* **Polymer Solutions, Melts & Blends**	*Peralta + Lamy* **Rheology in Geoscience**	*O'Keeffe + Milagro* **Interfacial Rheo, Surf, Foams & Emul**	*Sweeney Ballroom C* **Biomaterials, Bio-fluid Dynm & Biorheo**	*Sweeney Ballroom D* **Flow-Induced Instb & Non-Newt Fluids**
9:50	**CS18.** Non-simple flow geometries and granular rheology. *J. Clemmer, I. Srivastava, G. S. Grest and J. B. Lechman*	**GN18.** Linear and non-linear rheology of Pluronic F127 self-assemblies in ionic liquid and water mixtures. *S. M. Tabatabaei and R. Foudazi*	**SM17.** Time-temperature superposition breaks down in extensional flow of polymer solutions. *J. B. Joseph and J. P. Rothstein*	**RG4.** Flashing lights in speeding grains: Rheology of granular avalanches. *N. M. Vriend*	**IR18.** Shear-induced deformation of MXene-covered droplets: Effect of interfacial viscoelasticity. *B. Attaianese and R. Cardinaels*	**BL17.** Viscoelasticity of airway mucus by live-cell rheometry. *C. Moose and G. G. Fuller*	**FI17.** Evidence of an inertialess kapitza instability due to viscosity stratification. *S. Gundavarapu, D. J. Dhas and A. Roy*
10:10	**CS19.** Exploring effects of cohesive particles localization on μ(I)-rheology of highly polydisperse granular materials using GPU-accelerated DEM. *S. Yans, M. Henry, J. Lambrechts and V. Legat*	**GN19.** Thermodynamic origins of irreversible morphology transitions caused by flow-equilibration cycles in amphiphilic solutions. *S. Liu and R. Sureshkumar*	**SM18.** Modeling the molecular dynamics of entangled polymer melts under biaxial elongational flow. *N. Chonqvimansin and T. C. O'Connor*	**RG4** *continues*	**IR19.** Multiphysics modeling of long-term aging and deformation mechanisms in polyurethane foams. *K. N. Long, J. A. Brown, C. C. Roberts, B. H. Jones and R. R. Rao*	**BL18.** Thixo-viscoelastoplastic rheological characterisation of human mucus and sputum under healthy and ill conditions using a Bautista-Manero-Puig constitutive model within a multimode approach. *J. E. Lopez-Aquilar, M. Figueroa-Landeta, S. L. Esponda-Cervantes, M. F. Reyes-Tenorio and O. Manero*	**FI18.** Shear-driven sedimentation of a rigid particle in soft suspensions. *R. Alrashdan and F. Khabaz*
10:30	**CS20.** Shear reversal in dense frictional suspensions: A micromechanical description connecting microscopic physics with macroscopic physics via mesoscale frictional network. *R. Pappalardo, A. D'Amico, S. Sharma, S. Tu, M. Orsi and A. Singh*	**GN20.** Life-like condensate networks formed by liquid crystal filament coiling. *C. A. Browne and C. Osuji*	**SM19.** Measuring the properties of a viscoelastic fluid using a tethered swimming rheometer. *E. S. Shaqfeh, S. Chiu, L. Yan, A. Jussupov and M. Prakash*	**RG5.** Viewing lobate patterns on Earth and Mars as climate-modulated fluid-like instabilities. *R. C. Glade*	**IR20.** How does the airflow change the evaporation and deposition of droplets? *D. Jeon, G. Oh, S. Mun, J. S. Park and B. Weon*	**BL19.** Chemotactic response of bacteria to nutrient hotspots. *A. Pahlavan*	**FI19.** Mechanics of multiple bubbles in yield stress fluids: Effect of hydrodynamic interactions and coalescence. *M. Daneshi, E. Chaparian and I. Frigaard*
10:50	**CS21.** Characterization of granular rheology using LAOS in Couette chute flow. *D. Stumpf, K. Henry, C. R. Wassgren and P. R. Mort*	**GN21.** Structure and rheology of self-assembled poly(styrene)-poly(ethylene glycol) block copolymers. *K. M. Weigandt and K. Rehmann*	**SM20.** Interactive stress relaxation in polymers, fast and slow. *H. H. Winter*	**RG5** *continues*	**IR21.** Dilatational response of soluble asphaltenes at the oil/water interface. *A. B. Marciel*	**BL20.** The stress relaxation response of the porcine descending aorta under combined normal and torsional loadings. *C. C. Benjamin and L. Nguyen*	**FI20.** The mechanism of incomplete stress relaxation in brittle yield stress fluids. *J. Lee, G. B. Thompson, B. A. Harley and S. A. Rogers*

11:10	**CS22.** Unifying granular intrusion dynamics for space exploration applications. *J. G. Ruck, S. Pradeep, J. Bush, E. D. Sigg, F. Qian and D. J. Jerolmack*	**GN22.** Modeling flow-driven disassembly of supramolecular telechelic polymers in elongational flows. *S. Liu and T. C. O'Connor*	**SM21.** A universal method to determine the molecular weight of polymers in semidilute unentangled solutions using SAXS, NMR diffusometry, and rheology. *B. Baniasadi, A. Han, M. M. H. Babu, V. S. Uppala, J. Aubry, L. A. Madsen, C. G. Lopez and R. H. Colby*		**IR22.** Flow assurance challenges through the lens of interfacial rheology. *T. A. Figueira, E. M. Castano, J. E. Leiva, A. Mora, M. C. Khalil de Oliveira, O. Karnitz, P. R. Varges, P. R. de Souza Mendes and M. F. Naccache*	**BL21.** A viscosity-based assay to screen blood diseases. *M. S. Tirumkudulu and M. A. Mir*	**FI21.** A universal relationship between linear and nonlinear responses in soft materials. *R. Poling-Skutvik, D. Keane, E. Nikoumanesh and S. A. Rogers*
11:30		**GN23.** Start-up response of wormlike micelles: Scission & banding. *I. Cusano, A. Azarpour, N. Grizzuti, G. Zanchetta and R. Pasquino*	**SM22.** Quantitative metrics to assess evidence of time-temperature superposition (tTS). *A. S. Modi, N. Ramlawi, A. T. Hedegaard, E. L. Breedlove, J. W. McAllister, H. Lee, B. Rajabifar and R. H. Ewoldt*			**BL22.** Complex coacervate microemulsions. *S. Srivastava*	
11:50	LUNCH BREAK / SOCIETY BUSINESS MEETING Sweeney Ballroom E+F, 12:00-1:30 pm						

Afternoon

	Sweeney Ballroom A **Colloidal Suspensions & Granular Matls**	***Sweeney Ballroom B*** **Self-assemblies, Gels & Networks**	***Coronado + DeVargas*** **Polymer Solutions, Melts & Blends**	***Peralta + Lamy*** **Applied Rheology for Industrial Appl**	***O'Keeffe + Milagro*** **Additive and Advanced Manufacturing**	***Sweeney Ballroom C*** **Biomaterials, Bio-fluid Dynm & Biorheo**	***Sweeney Ballroom D*** **Flow-Induced Instb & Non-Newt Fluids**
1:30	**CS23.** Microrheology in active suspensions. *B. Chen and J. F. Brady*	**GN24.** Effect of Microgel Elasticity on Tracer Dynamics in Microgels. *P. Edimeh and J. C. Conrad*	**SM23.** An elasto-viscoplastic approach to polymer rheology. *A. Winters, J. Vermant and T. A. Tervoort*	**AR11.** The evolution of parabolic focal conic defects in concentrated liquid crystalline detergent formulations. *M. Kaboolian, P. U. Kelkar, M. Caggioni, S. Lindberg and K. A. Erk*	**AM1.** Printability and rheology of colloidal inks under high-frequency pulsed strain histories. *L. Kroo, M. Rishabh, T. Tuladhar and G. McKinley*	**BL23.** Micro-confinement drives the separation of active and passive matter. *P. Lele, P. K. Subrahmaniyan and S. Mukhopadhyay*	**FI22.** Extensional deformation of a drop with an elastoviscoplastic interface. *P. D. Anderson, M. Hulsen, M. Hutter, M. Carrozza and L. Bremer*
1:50	**CS24.** Tuning the viscosity and shear-jamming point in active dense suspensions. *B. P. Bhowmik and C. Ness*	**GN25.** Granular hydrogels as brittle yield stress fluids. *J. Lee, G. B. Thompson, K. M. Kamani, N. Flores-Velasco, S. A. Rogers and B. A. Harley*	**SM24.** Inherent spatial heterogeneity in polystyrene/polyisoprene block copolymers. *B. W. Tantorno and G. B. McKenna*	**AR12.** Tribo-rheological evaluation of facial cleansers for post-wash frictional sensory on synthetic skin templates. *R. K. Sinha and H. Bui*	**AM2.** Printability criterion for highly-filled inks for direct-ink write additive manufacturing. *J. J. Griebler, J. W. Kopatz, S. A. Rogers, A. S. Tappan and A. M. Grillet*	**BL24.** Multicomponent vesicles in simple shear flow. *Y. Li, A. Venkatesh, C. Schroeder and V. Narsimhan*	**FI23.** Fiber suspension flow with wall-slip in hyperbolic symmetric geometries. *K. D. Housiadas, A. N. Beris and S. G. Advani*
2:10	**CS25.** Viscoelasticity of nanocolloidal suspensions from probe rheology: probe size and statistics. *M. Pourasgharoshtebin, E. M. Furst and R. Khare*	**GN26.** Rheological effects on rupture of polymer networks. *Z. Fan and S.-Q. Wang*	**SM25.** PEO/PMMA blend dynamics revisited - a van Gurp-Palmen analysis. *B. W. Tantorno, T. T. Truong, L. M. Hoover and G. B. McKenna*	**AR13.** Microstructure-informed rheological models for effective formulation design. *J. Hipp, M. Caggioni and E. Martin*	**AM3.** Impact of polymer molar mass on stability of dense pastes during additive manufacturing. *B. Brettmann*	**BL25.** Up, up, and away: Microbes use biogenic bubbles to escape confinement in yield stress environments. *B. Vajdi Hokmabad and S. S. Datta*	**FI24.** Impact dynamics of non-Newtonian drops. *A. Mobaseri, S. Kumar and X. Cheng*
2:30	**CS26.** Probing the microstructure of a viscosity metamaterial. *A. R. Barth, N. Singh, I. Cohen, A. Shetty, E. R. Dufresne and B. Chakraborty*	**GN27.** The influence of network topology on the viscoelasticity of polyelectrolyte complex (PEC) hydrogels. *F. Albreiki, H. Senebandith, D. Li and S. Srivastava*	**SM26.** Immiscible polydimethylsiloxane and polybutadiene vitrimer blends. *N. Torres, D. C. Barzycki and R. G. Ricarte*	**AR14.** Linear and non-linear rheological behavior of ice cream. *A. Alvi and S. I. Martinez-Monteagudo*	**AM4.** Embedding cell-Like rheology into 3D printed scaffolding for active and adaptable materials applications. *T. E. Angelini*	**BL26.** Locomotion in viscoplastic yield stress fluids: Investigation of force balance and geometry effects. *F. Nazari, K. Shoele and H. Mohammadigoushki*	**FI25.** A causality-abiding constitutive relationship for a wide class of thixotropic materials. *S. P. Pillai, Z. Grasley and R. K R*

2:50	**CS27.** A discrete element framework for multibody collisions in wet granular systems. *R. Chattopadhyay and R. H. Davis*	**GN28.** Exploring chemistries for hydrogel-based reversible adhesives. *J. W. Kopatz, K. Ghosh, E. Larkin, R. Secor, R. R. Rao, M. Murphy, W. Dorman and C. C. Roberts*	**SM27.** Designing mercury-free photoelastic polyurethane particles. *K. Chaudhuri, H. Burke, B. Hayes and N. M. Vriend*	**AR15.** Small-volume protein solution rheology. *P. Salipante, V. Prabhu and S. Hudson*	**AM5.** Stabilizing liquid threads in embedded 3D printing. *M. T. Hossain, W. Eom, S. H. Tawfick and R. H. Ewoldt*		
3:10	COFFEE BREAK Santa Fe Community Convention Center Lobby						
			Future of Rheology Speakers				**Techniques and Methods**
3:45	**CS28.** Teaching thixotropy and elastoviscoplastic materials. *C. W. Macosko, R. H. Ewoldt and G. McKinley*	**GN29.** Time-resolved nonlinear rheology of interpenetrating biocomposite networks using the SPP framework: From experimental characterization to simulation models. *W. A. Fontaine-Seiler, D. L. Blair, E. Del Gado and G. J. Donley*	**FR1.** Rigidity development in shear-thickened dense suspensions: Contact network and motion correlation analysis. *M. Orsi, R. Pandare, B. Chakraborty and J. F. Morris*	**AR16.** Bio-based additives as rheology modifiers for Hevea and guayule rubber latexes. *M. Z. Ahmad Ebrahim, M. S. Apon, T. Pirzada and S. Khan*	**AM6.** Rapidly recoverable yield stresses in Direct-Ink-Write printing of weight-supporting structures using polymers containing fumed silica and polyethylene glycol. *C.-P. Chu, O. Roy and R. G. Larson*	**BL27.** Hyaluronic acid/cellulose nanocrystal suspensions as a potential viscosupplement composition for osteoarthritis. *A. Bose, B. Zakani and D. Grecov*	**TM1.** Confocal and colloidal probe microscopy for characterizing adhesion, friction, and wetting of multi-phase elastomers. *J. T. Pham*
4:05	**CS29.** Discriminating between viscoelasticity and thixotropy via constrained recoil experiments. *P. R. de Souza Mendes, P. H. Silva Paiva, P. R. Varges, I. R. Siqueira and R. L. Thompson*	**GN30.** Molecular simulations of polymerization-induced phase separation and viscoelasticity in interpenetrating polymer networks. *G. Joe, W. T. Ferguson, M. J. Stevens and T. C. O'Connor*	**FR2.** Measuring and modeling deformations of topologically-defined polymers using in situ capillary rheo-SANS. *A. Datta, S. Powers, X. T. Wang, R. P. Murphy, K. M. Weigandt, P. T. Underhill and M. E. Helgeson*	**AR17.** Charge transport trade-offs in colloidal suspension electrodes under flow. *J. Krishna Udiyappan and M. V. Majji*	**AM7.** Bridging microstructural information and swelling performance of emulsion-based edible films. *E. Pulatsu and C. Udenigwe*	**BL28.** The flow of meat analogues study by rheo-SANS, scanning SAXS, and x-ray tomogragrphy. *T. Guan, P. A. Rühs and P. Fischer*	**TM2.** Mapping of the multiaxial failure envelope of model soft elastomers to develop a failure criterion. *M. N. Saadawi and C. W. Barney*
4:25	**CS30.** Rheology of highly overpacked states of soft microgel particles. *R. Angelini, S. Franco, B. Ruzicka, V. Nigro and E. Buratti*	**GN31.** Polyelectrolyte complex-interpenetrating polymer network (PEC-IPN) hydrogels: Influence of covalent network molecular weight. *H. Senebandith, F. Albreiki, D. Li and S. Srivastava*	**FR3.** Nested traveling waves underlying elastoinertial turbulence. *M. Kumar*	**AR18.** Towards the rheological fingerprint of protein-enriched yogurts. *A. G. Soler-Sanchez, J. I. Agbawodike, A. Alvi and S. I. Martinez-Monteagudo*	**AM8.** Addressing process challenges in direct chip attachment process. *K. Tjiptowidjojo, T. Mitha, R. J. Fermin, J. Torres, B. T. Croslin and A. R. Mehrabi*	**BL29.** Microfluidic cell-free layer and yield stress measurements of blood. *S. M. Farrington, N. Wagner and A. N. Beris*	**TM3.** Rheo-impedance and Tribo-impedance spectroscopy of lubricating greases for electric vehicles. *P. Staudinger, J. Heinrich, K. S. Pondicherry and J. Laeuger*
4:45	**CS31.** Rheology and microstructure of sticky yield stress fluids. *H. K. Yankah, R. Alrashdan, M. Cloitre and F. Khabaz*	**GN32.** How gel architecture controls ductility and dissipation in single and double network gels. *M. L. Mugnai, R. B. Tchuenkam and E. Del Gado*	**FR4.** Strain shift measured from stress-controlled oscillatory shear: Evidence for a continuous yielding transition and new techniques to determine recovery rheology measures. *J. J. Griebler, G. J. Donley, V. Wisniewski and S. A. Rogers*	**AR19.** Oscillation thermo-rheometry as a tool to study the melting behavior of high protein ice creams. *N. Tweneboah, K. Pizarro, J. Olatunde and S. I. Martinez-Monteagudo*	**AM9.** Additive manufacturing of bidisperse ceramic suspensions. *B. E. Dolata, S. H. Hales, A. J. Andrew, F. Zhang and R. A. Maier*	**BL30.** Suspension balance modelling of microcirculatory blood flows capturing cell free layer. *H. A. Castillo Sanchez, W. Ortiz, R. R. Rao and L. Liu*	**TM4.** Tribological flow transitions in soft elastomers with colloid-laden lubricants. *O. Ojuade, H. Dong, A. Jagota and L. Hsiao*

5:05	**CS32.** Flow-induced lamellar ordering in attractive suspensions. *E. Moghimi, H. A. Vinutha, A. H. Walker, E. Del Gado, D. L. Blair and J. Urbach*	**GN33.** Strain softening-stiffening of composite hydrogels composed of biopolymer and colloidal microfibrous networks. *C. Xu, Y. C. Saraswat, M. A. Shaikh, N. Shakoury, P. H. Wink Reis and L. Hsiao*	**FR5.** Rheology and dispensing of real and vegan mayo: The chickpea or egg problem. *N. Nikolova, S. Sepahvand, S. K. Baier and V. Sharma*	**AM10.** Formulation of ceramic clays and glazes with local materials of the Black Hills. *K. J. Donovan, T. Walker and J. J. Kellar*	**TM5.** Pressure driven flow of polymer melt in elliptical dies. *M. Zatloukal, L. Szántó, J. Drabek and P. Rolfe*
5:25			**FR6.** Size- and charge-dependent microrheology in live Escherichia coli: Impact of confinement and macromolecular interactions on particle dynamics and localization. *A. M. Sunol, D. Valverde-Mendez, J. L. Hofmann, B. P. Bratton, M. Delarue, J. P. Sheehan, Z. Gitail, L. J. Holt, J. Shaevitz and R. N. Zia*	**AM11.** Development of an experimental protocol for the evaluation of the buildability of fresh 3D printable concrete. *A. A. Youssef*	**TM6.** Determining viscoelastic properties of soft microscale rods by capillary aspiration. *B. T. Smith and S. M. Hashmi*
5:45			END		
6:30			BUS TO SANTA FE FARMERS' MARKET PAVILION leaves from Grant St in front of Convention Center, until 8:00 PM		
8:00			AWARDS BANQUET Santa Fe Farmers' Market Pavilion		

Wednesday, October 22

Morning

8:30 **PL3.** Shaping the future using folding (origami), cutting (kirigami) and printing (coiling). *L. Mahadevan* Sweeney Ballroom E+F

9:20 COFFEE BREAK Santa Fe Community Convention Center Lobby

	Sweeney Ballroom A **Colloidal Suspensions & Granular Matls**	***Sweeney Ballroom B*** **Self-assemblies, Gels & Networks**	***Coronado + DeVargas*** **Polymer Solutions, Melts & Blends**	***Peralta + Lamy*** **Applied Rheology for Industrial Appl**	***O'Keeffe + Milagro*** **Additive and Advanced Manufacturing**	***Sweeney Ballroom C*** **AI and ML in Rheology**	***Sweeney Ballroom D*** **Techniques and Methods**
9:50	**CS33.** Clogging of interlocking particles in a 2D microfludic hopper. *A. Lindner, J. Tampier, L. Kool and P. Bourrianne*	**GN34.** Modelling the increased failure toughness of double network hydrogels. *S. B. Walker and S. M. Fielding*	**SM28.** Mechanical reprocessing of PA 11 and PA 11–LDPE blends followed via rheological methods. *D. Rodrigue, J. Morales and R. M. Michell*	**AR20.** Predicting spinnability of hydrocarbons from extensional rheology and thermal-flow simulations. *T. A. Lima, R. F. Torin, A. A. Yancheshme and N. J. Alvarez*	**AM12.** On the roles of die swell, boundary coalescence and crystallization kinetics in material extrusion-based additive manufacturing of thermoplastic polymers. *T. Domenech, P. Ovlaque, Y. Trolez, D. Olivier, B. Bujeau, S. Charlon and J. Soulestin*	**ML1.** Comprehensive data sets for machine-learned constitutive equations for temperature-dependent thixotropic waxy oils. *S. A. Ogunwale, K. Mateen, P. Thierry, A. Shetty, L. Mahir, A. Fidel-Dufour and R. G. Larson*	**TM7.** New advancements in techniques for investigating lava rheology. *M. A. Harris, S. Kolzenburg and M. O. Chevrel*
10:10	**CS34.** Shear-rheology of colloidal rods with hydrodynamic interactions in semi-dilute concentrations: Brownian Dynamics simulations. *L. H P Cunha, P. Salipante and S. Hudson*	**GN35.** Mean-field and critical scaling of polymer clusters near the gel point. *J. Qin*	**SM29.** Revisiting structure-property relations in PP/HDPE blends: From processing to performance with recycled polyolefins. *S. S. P. Looijmans, S. D. Namnidi, M. A. Spanjaards, L. A. van Breemen and P. D. Anderson*	**AR21.** Identifying efficient polymer processing aids. *X. Jia, A. Malmir, J. H. Piette, Z. Zhang, A. K. Doufas, G. Nicole and S. G. Hatzikiriakos*	**AM13.** Advanced manufacturing and deconstruction of polymer networks using stimuli-responsive microcapsules. *B. H. Jones, O. Davydovich, S. C. Leguizamon, C. Westover and F. M. C'de Baca*	**ML2.** Accelerating physics discovery with machine learning. *A. Howard*	**TM8.** Oscillatory rheometry procedures for highly loaded suspensions. *P. Stanton*
10:30	**CS35.** Two-step yielding in nematic glasses of rigid rods. *G. Petekidis and M. Das*	**GN36.** On gelation and form: Linear & nonlinear rheology of gelling networks during fluid-mediated shape formation. *B. Keshavarz*	**SM30.** Synergistic role of long chains and shear on the crystallization of poly(ethylene oxide) (PEO). *A. Bhadu, E. J. Mumau, N. C. Lee, K. A. Page, X. Zhang, A. M. Rhoades and R. H. Colby*	**AR22.** Rheological behavior of fresh ultra-high-performance concrete enhanced with cellulose nanofibers. *X. Xiong and C. Tao*	**AM14.** A rheological perspective into digital light projection printability of colloidal suspensions. *E. Hoque, S. Barber, A. Klear and B. M. Yavitt*	**ML3.** Rheo-Former: A generative platform for reliable rheological and non-Newtonian fluid mechanical modeling. *M. Saberi and S. Jamali*	**TM9.** Extensional rheology and stringiness of yield stress fluids. *S. Sepahvand, N. Nikolova, L. Edano and V. Sharma*
10:50	**CS36.** Average stress in a dilute suspension of rigid spheroids in a second-order fluid in a linear flow. *T. M. Apte, A. Ardekani and V. Narsimhan*	**GN37.** Protorheology à la critical gel. *M. C. Marsh, M. T. Hossain and R. H. Ewoldt*	**SM31.** Rheology during crystallization of poly(ethylene oxide) in gel polymer electrolytes. *F. Naderi Samani and R. Foudazi*	**AR23.** Impact of wellbore inclination and rheological properties on barite sedimentation: Using a new visualization technique. *R. S. Schimicoscki, E. M. Germer and A. T. Franco*	**AM15.** Effect of functional groups on acrylate photopolymerization kinetics and rheological properties during UV cure. *R. Crownover and E. Beckel*	**ML4.** Unveiling non-Newtonian flow dynamics and rheology: Data-driven constitutive modeling through differentiable simulations. *A. M. Sunol, M. G. Alhashim, W. Wang, J. V. Roggeveen, H. S. Bae, K. Hausknecht, D. A. Weitz and M. P. Brenner*	**TM10.** Boger yield stress fluids in gravity-driven filament stretching. *T. A. Livesay, M. T. Hossain and R. H. Ewoldt*

11:10	**CS37.** Shear flow of colloidal bent-core liquid crystals. *N. Hackney, J. Clemmer and G. S. Grest*	**GN38.** Enhancing the re-processability of photo-recyclable polymer networks using molecular design and in situ photo-rheology. *E. L. Quirk, C. Pereira dos Santos, M. C. Burroughs, B. M. Wirtz, T. H. Schloemer, D. N. Congreve and D. J. Mai*	**SM32.** Role of the energy conversion factor in flow birefringence and polymer crystallization kinetics. *A. Bhadu, E. P. Moffett, S. Xu, A. M. Rhoades and R. H. Colby*		**AM16.** Pinch-off, impact, and spreading dynamics of fiber-suspension droplets. *A. Sauret, S. Rajesh, N. Vani and V. Thievenaz*	**ML5.** Inferring viscoelastic model parameters from complex flows using physics informed neural networks. *D. S. Bolintineanu, S. Sankaran, N. A. Trask, P. G. Perdikaris, R. R. Rao and W. Ortiz*	**TM11.** Rheology of Carbopol in a benchmark experiments: Flow around a rising bubble. *O. Hajieghrary, M. Daneshi and I. Frigaard*
11:30	**CS38.** Frictional contacts in rigid rod suspensions allow for large stress oscillations. *C. Quinones and P. D. Olmsted*	**GN39.** Rheological characterization of hydrogels with both adaptable and non-degradable cross-links. *G. Khare, K. Anseth and K. Schultz*					**TM12.** Marsh funnel protorheology for yield stress fluids - operational limits and design insights. *S. Gupta and R. H. Ewoldt*
11:50				LUNCH BREAK			

Afternoon

	Sweeney Ballroom A **Colloidal Suspensions & Granular Matls**	***Sweeney Ballroom B*** **Self-assemblies, Gels & Networks**	***Coronado + DeVargas*** **Polymer Solutions, Melts & Blends**	***Peralta + Lamy*** **Applied Rheology for Industrial Appl**	***O'Keeffe + Milagro*** **Additive and Advanced Manufacturing**	***Sweeney Ballroom C*** **AI and ML in Rheology**	***Sweeney Ballroom D*** **Techniques and Methods**
1:30	**CS39.** Coherent x-rays reveal dynamics inhomogeneity in shear thickening colloids. *X.-M. Lin, J. P. Horwath, H. He, J. Lee, Z. Jiang, S. Chakraborty, Q. Zhang, E. M. Dufresne, M. Sutton, A. Sandy and S. Narayanan*	**GN40.** Viscoelasticity of model polyisoprene vitrimers. *R. Arcangela, B. Saibal, N. Konstantinos, H. Nikolaos, L. Benoit and D. Vlassopoulos*	**SM33.** Shear induced crystallization of concentrated, PEGylated nanoparticles. *K. Rehmann, K. M. Weigandt, S. Hudson and P. Salipante*	**AR24.** Fighting bad rheometry: Lessons from compliance limits and protorheology. *M. T. Hossain, R. Tiwari, C. W. Macosko, G. McKinley and R. H. Ewoldt*	**AM17.** Shear-induced nanoscale morphologies in 3D-printed structural color. *K. George and M. Sadati*	**ML7.** Non-local physics-informed neural networks for forward and inverse solutions of granular flows. *S. Zolfaghari and S. Jamali*	**TM13.** Statistical mechanics of aramid fiber structure and rheological properties subject to rheometric and high-rate impact deformations. *M. A. Ploch, M. R. Roenbeck, J. L. Pretko, C. W. Seay, K. E. Strawhecker and S. R. Lustig*
1:50	**CS40.** Scaling of structural and rheological properties in shear thickening suspensions. *R. Pandare, M. Orsi, B. Adu-Poku, B. Chakraborty and J. F. Morris*	**GN41.** Microstructural and rheological insights into polysaccharide-protein complex gels. *S. Mohammadkhah, S. Prottasha, A. Witherspoon and S. Khan*	**SM34.** Combined influence of pressure and shear flow on the crystallization of isotactic polypropylene. *B. Jacob, J. Laeuger, X. Zhang, M. Thiele, M. Nemeth, K. A. Page, A. M. Rhoades and R. H. Colby*	**AR25.** Making rheology developments interesting again and again. *D. J. Moonay*	**AM18.** The competition between nucleation agents and flow-induced crystallization in material extrusion additive manufacturing. *J. E. Seppala, K. A. Page, J. Crossno, P. Roberts and A. P. Kotula*	**ML8.** Augmenting machine learning of universal viscoelastic constitutive relationships through curriculum learning using first normal stress difference measurements in LAOS. *N. King, E. Pashkovski, R. Patterson, P. Rockwell and G. McKinley*	**TM14.** Chebyshev polynomial approach for first normal stress difference interpretation in LAOS. *A. T. Hedegaard*

2:10	**CS41.** Large intruders in a shear-thickening suspension. *A. Pelosse and H. Jaeger*	**GN42.** High-pressure rheology of a thermoreversible protein sol-gel. *E. M. Furst, S. Teixeira, B. Paul, N. Wagner and A. Lenhoff*	**SM35.** Extensional flow-induced crystallization in metallocene and Ziegler-Natta high-density polyethylenes. *K. Sundara Rajan and J. P. Rothstein*	**AR26.** Role of powder rheology in dry battery electrode processing. *A. Shetty, H. Weingrill and T. Ebner*	**AM19.** A multi-modal rheological characterization approach to determine the flow mechanisms during material-extrusion AM of polymer-composite type precursors. *A. Gozen, C. Grover and S. Beckman*	**ML9.** Deriving data-driven rheological constitutive models with a sparse identification algorithm. *T. Sato, S. Miyamoto and S. Kato*	**TM15.** Long windowed chirps to probe low frequencies. *K. J. Whitcomb and Y. Tian*
2:30	**CS42.** Shear thickening and time-dependent rheological behavior in graphite/CMC slurries. *H. Jung, C. Hyun and J. Nam*	**GN43.** Novel rheological transitions and ordering in hybrid emulsion-hydrogels for treating otitis media. *M. A. Calabrese, C. T. Knisely and G. Heinecke*	**SM36.** Flow-induced suppression of crystallization in polymer blends. *N. Deneke and K. B. Migler*	**AR27.** Powder rheological properties of pharmaceutical excipients: Lactose monohydrate and carboxymethyl cellulose. *B. Abedi*	**AM20.** Fabrication of functionally graded core–shell structures via material extrusion additive manufacturing. *A. Naqi and M. Mackay*	**ML10.** A general machine learning framework for accurate detection of cluster formation: A case study of polymer crystallization from molecular dynamics simulations with supervised and unsupervised approaches. *E. Tourani, B. J. Edwards and B. Khomami*	**TM16.** Nonlinear chirp rheology. *J. L. Waeterloos and C. Clasen*
2:50	**CS43.** Effects of non-adsorbing polymer molecular weight on the rheology and microstructure of dense, colloidal, ceramic suspensions. *A. N. Seshadri, M. Kaboolian, A. Ardekani, J. Youngblood, K. M. Weigandt, K. A. Erk and R. D. Corder*			**AR28.** Rheological insights into coffee powders: Unveiling the impact of grind size, roast degree, and origin. *B. Abedi*		**ML11.** Suspension-balance neural networks for modeling concentrated suspension rheology in confined flows. *M. Davis, H. A. Castillo Sanchez, R. R. Rao and L. Liu*	**TM17.** Application of improved optimally windowed-chirps (OWCh) to curing systems. *S. Cotts and K. J. Whitcomb*
3:10			COFFEE BREAK Santa Fe Community Convention Center Lobby				
		Rheo & Sustainability for Energy & Prod	**Rheo for Soft Robt & Field-Respn Matl**				
3:45	**CS44.** Capillary rheology of high concentration CNT solutions. *O. S. Dewey, C. J. Ginestra, I. R. Siqueira and M. Pasquali*	**SE1.** Coating and extrusion models for viscoelastic fluids. *W. Ortiz and R. R. Rao*	**SR1.** From tunable shear thickening to viscosity metamaterials. *I. Cohen*			**ML12.** Geometric deep learning of disordered network rheology. *J. L. Shivers*	**TM18.** Dripping-on-Substrate (DoS) dos and don'ts. *L. N. Warwaruk, R. H. Ewoldt, M. Chris and G. McKinley*
4:05	**CS45.** Microscopic structure and dynamics of dense suspensions of a stimuli-responsive core-shell latex. *K. J. Patel and J. J. Richards*	**SE2.** Microstructure investigations of electrocatalyst inks towards manufacturing scaling-up of fuel cells and electrolyzers. *S. Khandavalli, J. H. Park, D. D. Soetrisno, M. Bassinger, H. H. Winter, D. J. Myers, M. Ulsh and S. A. Mauger*	**SR2.** Controlling the rheology and thixotropy of colloidal gels with an electric field. *S. M. Hosseini and J. S. Park*			**ML13.** Graph neural network for multitask prediction of rheological and microstructural behavior in suspensions. *J. Maia, A. Aminimajd and A. Singh*	**TM19.** A low-cost 3D-printed rotational viscometer for rheology and fluid mechanics education. *B. M. Yavitt, M. Knutson, S. P. Weerakoon, C. J. Ticknor and A. Priye*

4:25	**CS46.** From sedimentation to suspension: Critical strain as a predictor of particle resuspension under shear. *M. Mahmoudian, S. A. Rogers and P. Mirbod*	**SE3.** Edge profile control in battery electrode slot-coating. *J. Yoon, K. Min, J. Song and J. Nam*	**SR3.** Nonreciprocal rheology in living and robotic chiral active matter. *T. H. Tan*	**ML14.** Clustering and measurement methods for quantitative microstructural analysis using molecular dynamics data: A case study of polymer crystallization. *E. Tourani, B. J. Edwards and B. Khomami*	**TM20.** Fast, cheap, and predictably wrong: Quantitative limits of tilted vial protorheology. *R. Tiwari, C. D. Armstrong, M. T. Hossain, M. Zakoworotny, I. Arretche, N. R. Sottos, P. Geubelle, S. H. Tawfick and R. H. Ewoldt*
4:45	**CS47.** Fluid flow modulation via shape-evolving colloids. *J. A. Diaz A. and L. Galeano Tirado*	**SE4.** Effect of time-dependent thixotropic fluids on slot-die coater flow dynamics, viscosity recovery, and operating conditions. *T. R. Kennelly, R. R. Rao, W. Ortiz, C. Parrish, K. Tjiptowidjojo and R. Schunk*	**SR4.** Activity driven jamming. *N. Singh, A. R. Barth, E. X. Ong, A. Shetty, B. Chakraborty, J. P. Sethna, E. R. Dufresne and I. Cohen*	**ML15.** Isolating the MAOS regime via data-driven constitutive modeling. *S. Shanbhag, V. Kumar and Y. M. Joshi*	**TM21.** Errors matter when measuring Poisson's ratio of nearly incompressible elastomers. *C. W. Barney, R. Nedoluha and M. N. Saadawi*
5:05	**CS48.** Influence of particle morphology and fluid matrix on the rheological response and microstructure of non-colloidal suspensions. *L. H. Quitian-Ardila, R. S. Schimicoscki, D. V. Andrade and A. T. Franco*	**SE5.** Effect of polymer additives to Nafion solutions on shear and extensional rheological behavior, coating deposition, and drying defects. *M. J. Gallegos and N. S. Bell*	**SR5.** Measuring thermophoretic and Brownian motion using multiple particle tracking microrheology in ground and microgravity conditions. *N. Hasanova, M. C. Roffin, X. Cheng, K. Schultz and J. F. Gilchrist*		**TM22.** Imaging intermittent flows in capillary channels using widefield spatiotemporal analysis of attractive nanoemulsions. *C. Weeks, W. Tang and L. Hsiao*
5:25					**TM23.** Characterization of length-scale dependent rheology using bi-disperse multiple particle tracking during cell-material interactions. *J. A. McGlynn and K. Schultz*
5:45	END				
6:30	POSTER SESSION & RECEPTION Sweeney Ballroom E+F, until 8:30 pm				
6:30	GALLERY OF RHEOLOGY SESSIONS Sweeney Ballroom E+F, until 8:30 pm				

Thursday, October 23

Morning

8:00 **MP1.** Rheoinformatics: Seamlessly integrating theory, computation, and experiment through data-driven rheology. *S. Jamali* (Metzner Award Presentation) Sweeney Ballroom E+F

8:40 SHORT BREAK

	Sweeney Ballroom A **Colloidal Suspensions & Granular Matls**	***Sweeney Ballroom B*** **Rheo & Sustainability for Energy & Prod**	***Coronado + DeVargas*** **Rheo for Soft Robt & Field-Respn Matl**	***Sweeney Ballroom C*** **AI and ML in Rheology**
8:45	**CS49.** Rheology and crystallization behavior of natural basaltic melts at conditions relevant to lava flow emplacement. *S. Kolzenburg*	**SE6.** Examining the impact of polypropylene contamination on film blowing polyethylenes via extensional rheology. *G. Tillinghast, J. P. Rothstein and H. H. Winter*	**SR6.** Shear-induced structural transitions of cholesteric liquid crystals. *A. Shetty and C. Tang*	**ML16.** Obtaining rheological constitutive equations for geopolymer systems from scarce data. *D. Dabiri, T. Egnaczyk, N. Wagner and S. Jamali*
9:05	**CS50.** Acoustic forces in colloids: Microstreaming effects and particle-scale modeling. *S. Sudhaman and R. T. Bonnecaze*	**SE7.** Thermodynamic insights into shear flow-mediated crystallization. *L. C. Willis, R. R. Rao and L. Liu*	**SR7.** Reconfigurable paramagnetic colloidal clusters. *S. L. Biswal*	**ML17.** From microstructure to rheology: Discovering tunable design rules with neural latent spaces. *B. Valipour Goodarzi and R. Foudazi*
9:25	**CS51.** Rheology of dense fiber suspensions. *A. Ardekani*	**SE8.** Rheological characterization of CO_2 hydrate suspensions. *R. A. Gomes, G. Muhlstedt, C. O. Negrão and D. V. Andrade*	**SR8.** Coordinated motion of magnetic Janus particle microroller swarms. *J. F. Gilchrist, J. Riffle, G. Powell, T. Richardson, O. Percaccio, N. Tobin, K. Weis, E. Kore and A. Donnelly*	**ML18.** Rheometric signal denoising using latent space modelling. *M. Das, D. Vadillo, A. Perego and G. McKinley*
9:45	**CS52.** Cracking of films and buckling of shells in drying colloidal dispersions. *M. S. Tirumkudulu and O. P. Bamboriya*	**SE9.** Rheological and gelation study of silica-based nanofluid for flow control in enhanced geothermal systems. *N. Konate, R. Foudazi, S. Salehi and H. Karami*	**SR9.** Magnetically rotated Janus particles near solid boundaries. *A. Raghu and B. Bharti*	**ML19.** High-throughput viscometry via machine-learning using videos of inverted vials: The effects of process parameters on the inference accuracy. *I. Arretche, M. T. Hossain, R. Tiwari, M. G. Mills, A. J. Kim, C. D. Armstrong, J. J. Lessard, S. H. Tawfick and R. H. Ewoldt*
10:05	COFFEE BREAK Santa Fe Community Convention Center Lobby			
10:35	**CS53.** Superheating and melting kinetics in vibrated granular monolayers of cubic particles. *E.-A. Luis Fernando*	**SE10.** Understanding structure-property relationships of ionic liquids for biofuel production. *P. Dumnoenchanvanit, Y. J. Lee and Q. M. Qi*		
10:55	**CS54.** How does slip affect Thixotropy-Elasto-Visco-Plastic (TEVP) predictions in simple and oscillatory shear? *J. H. Piette and S. G. Hatzikiriakos*	**SE11.** Melt rheology of bio-based polymer composites: Effects of wood filler loadings, polymer blend ratio, and crosslinking. *A. Khatiwada, K. E. Slavny, A. M. Hubbard and R. D. Corder*		
11:15	**CS55.** Dominant agglomerate scales for cohesive grains a rotating drum. *R. S. Sharma, T. Yu, S. Rajesh and A. Sauret*	**SE12.** Rheological and morphological investigation corn stover undergoing enzymatic hydrolysis. *J. R. Samaniuk, J. Troxler, M. E. Himmel, L. Yudong, J. J. Stickel and L. Crain*		
11:35	**CS56.** Surface-modified microfibrillated cellulose to enable hydration and dehydration. *M. Afshang, M. Caggioni, S. Lindberg and K. Schultz*	**SE13.** Engineering clay-zwitterion membrane supercapacitors using rheology as a tool. *R. Islam, P. Sarkar, S. Ghimire, G. Rother and K. Mukhopadhyay*		

11:55 END

Poster Session

Wednesday, October 22 6:30 PM – 8:30 PM Sweeney Ballroom E+F

PO1. Polymer gels for superior infrastructure materials: Internally cured cement and clay-based additive manufacturing. *A. N. Seshadri, Y. Maierdan, S. Kawashima, J. A. Howarter and K. A. Erk*

PO2. Rheology and printability of earth-based materials for sustainable construction. *K. Shirzad, Y. Kuznetsov, B. Gyawali, V. Nasir, K. Alba and A. Shetty*

PO3. 3D printing epoxy thermosets: Additive manufacturing of polymerization-induced phase separating materials. *F. M. C'de Baca, K. E. Van Meter and B. H. Jones*

PO4. Rheological characterization of cement pastes with alternative cementitious materials during early hydration. *J. Sardin and M. Geri*

PO5. Bubble-fiber interactions in multiphase flow: A pathway to sustainable paper manufacturing. *A. McMaster, C. C. Roberts and B. Halls*

PO6. Time-resolved mechanical properties of ordinary Portland cement during early-stage hydration. *G. J. Donley, B. E. Johnsson and K. Snyder*

PO7. Interfacial rheology of lanthanide binding peptide surfactants. *S. A. Crane, F. Jimenez Angeles, M. Olvera de la Cruz, I. J. Dmochowski and K. J. Stebe*

PO8. Heterogeneity in red blood cell mechanics drives altered blood rheology in sickle cell disease. *H. M. Szafraniec, F. Bull, P. Pearce and D. K. Wood*

PO9. Deposits from drying blood droplets - an alternative technique to differentiate healthy and unhealthy blood cells. *L. K. Pandurangan*

PO10. Natural additive based biopolymer film for medical applications. *M. Z. Salih*

PO11. More slippery than most: Rheological insights into fish skin mucus hydrodynamics. *G. Garcia, M. Kaboolian, K. A. Erk, H. Larkins and D. K. Wainwright*

PO12. Controlling slip-flow onset of hydrated soy protein melts as a basis for selecting cooling die temperature profiles in high-moisture extrusion. *A. Kamboj, C. E. Wagner and G. M. Ganjyal*

PO13. Training rheological properties of biological tissues under mechanical cues. *S. Arzash and S. Banerjee*

PO14. Viscosity modified resin for morphogenic growth 3D printing. *M. T. Hossain, Y. S. Kim, S. H. Tawfick, R. H. Ewoldt, M. Zhu and P. Geubelle*

PO15. Rheological characterization of fungal mycelium gels for use in soft electronics. *R. Tippery, M. Kaboolian, Y. Tian, T. Li and K. A. Erk*

PO16. Investigating injectability of high concentration mAb formulations with microfluidic viscometry. *D. Fox, C. Ochoa, D. Young, J. Albertson, S. Shabaniverki and S.-G. Baek*

PO17. Flow dynamics of active living entangled systems. *P. Sarkar, S. Hariharan, I. Tiwari, P. K R, T. Marzin, S. P. Thampi, M. G. Basavaraj and S. Bhamla*

PO18. From sedimentation to suspension: Critical strain as a predictor of particle resuspension thresholds. *M. Mahmoudian, S. A. Rogers and P. Mirbod*

PO19. Motion correlation for rigid particles in dense suspensions. *R. Pandare, M. Orsi, M. D. Shattuck and J. F. Morris*

PO20. A finite-element formulation of the suspension balance model applied to complex geometry flows. *A. Rahmani and J. F. Morris*

PO21. Microcapsule suspension rheology for geothermal short-circuiting prevention. *A. K. Temple and W. M. Kibikas*

PO22. Viscous heating limit lines for experimental prediction and qualification. *A. K. Temple and R. H. Ewoldt*

PO23. On the dynamics of yield stress fluids. *R. Alrashdan, O. TayebehKhabaz, M. Cloitre and F. Khabaz*

PO24. Rheological behavior and shear stability of graphene-based nanofluids using Carbopol as base fluid. *Y. H. Santos, C. Tanner, G. Palaoro and D. V. Andrade*

PO25. Powder rheology of alternative grain free flour substitutes. *K. R. Coasey*

PO26. Designing mercury-free photoelastic polyurethane particles. *K. Chaudhuri, H. Burke, B. Hayes and N. M. Vriend*

PO27. Comparative rheological characterization of nanofluids containing fumed silica: Insights from mineral oil and Carbopol-based systems. *G. Palaoro, D. V. Andrade, Y. H. Santos and F. Admilson*

PO28. Study of silica-based nanofluids for flow control in enhanced geothermal systems: A rheological perspective. *N. Konate, R. Foudazi, S. Salehi and H. Karami*

PO29. The degeneracy of particles with purely area-dependent potential energy. *L. R. Debono*

PO30. Thermodynamically consistent rate-type constitutive relations for modelling shear banding in complex fluids. *K. K. Yanamundra, S. P. Pillai, C. C. Benjamin and K. R. Rajagopal*

PO31. The influence of fluid elasticity on the flow-induced response of a flexibly-mounted square prism. *H. Gong, P. N. Umang, J. P. Rothstein and Y. Modarres-Sadeghi*

PO32. Extensional rheology and spinnability of polyvinylpyrrolidone solutions. *L. Edano, C. Slykas, V. Trada, C. Martinez Narvaez, N. Reddy and V. Sharma*

PO33. Coupling of hydrodynamic slip behaviour to a simple thixotropic elasto-viscoplastic model. *J. H. Piette and S. G. Hatzikiriakos*

PO34. Structural characterization of flow-aligned cellulose nanocrystals using in situ scattering methods. *K. J. Patel, Q. Liu, K. Ghezzi, J. J. Richards, W. Ho, R. Ngo, G. Nagy and M. Doucet*

PO35. Not all recoverable strain is elastic. *J. Lee and S. A. Rogers*

PO36. Kitchen pot thickens, drop by drop. *S. Sepahvand, L. Edano, N. Nikolova and V. Sharma*

PO37. Quantifying and predicting human behavior during interactions with viscoelastic materials. *J. D. Martin, M. Jogan, S. K. Teh, E. Burgeson and S. A. Rogers*

PO38. Rheo4Kids: Bringing rheology to children and teenagers. *P. R. Varges, M. F. Naccache, E. M. Castano, L. C. Moraes, M. P. Xavier, V. M. Picoli and T. A. Figueira*

PO39. A shared struggle: Impostor phenomenon within The Society of Rheology. *K. A. Erk and M. Kaboolian*

PO40. Flowing between disciplines: Integrating art and rheology into undergraduate education. *E. Chatzigiannakis and V. Sharma*

PO41. Protein/surfactant interface formation and properties by interfacial shear rheology. *M. C. Staub*

PO42. Linear and non-linear rheology of titanium dioxide Pickering emulsions. *S. P. Miller and M. Geri*

PO43. Automated Lagrangian droplet analysis framework to investigate individual droplets in capillary jets. *S. Verma and J. A. Kornfield*

PO44. Influence of surfactants, polymers and proteins on foam film drainage. *C. Xu, K. Ngo and V. Sharma*

PO45. Molecular modeling of star block copolymers at immiscible polymer interfaces. *W. T. Ferguson, G. Joe and T. C. O'Connor*

PO46. Eggless vegan food emulsions. *N. Nikolova, A. Cai, A. Ramirez, S. K. Baier and V. Sharma*

PO47. Rethinking elastoviscoplastic models for large amplitude oscillatory shear data. *B. Valipour Goodarzi and R. Foudazi*

PO48. Rheology of concentrated mixtures of non-ionic and ionic surfactants. *S. A. Onyembe and R. Foudazi*

PO49. Flow-history-dependent morphologies in particle-filled drops. *J. Vaswani, N. Hung, C. Schroeder and S. Velankar*

PO50. Bio-based additives as rheology modifiers for Hevea and guayule rubber latexes. *M. Z. Ahmad Ebrahim, S. Khan, M. S. Apon and T. Pirzada*

PO51. Influence of supercritical CO_2 and N_2 on the viscosity and solidification behavior of polymer melts. *J. Eckelt, M. Winkler, D. Schwarz and A. Shetty*

PO52. Linking rheology and spinnability of alginate solutions enriched with probiotics. *C. Cersosimo, G. D. Degen, D. Naylor, R. Rovelli, S. Danti, G. McKinley and M. Milazzo*

PO53. Understanding the combined role of chemistry and topology on dilute polymer rheology using high-shear capillary rheometry. *S. Powers, J. Park, A. Datta, X. T. Wang, P. T. Underhill and M. E. Helgeson*

PO54. Role of the energy conversion factor in flow birefringence and polymer crystallization. *A. Bhadu, E. P. Moffett, S. Xu, A. M. Rhoades and R. H. Colby*

PO55. Effect of dialysis on the osmotic pressure, conductivity, and rheology of aqueous polyelectrolyte solutions. *B. Baniasadi, A. T. Desai, Z. Huang, V. Devine-Ducharme, C. G. Lopez and R. H. Colby*

PO56. Molecular scale modeling of mechanical degradation in molten polymers. *N. Chongvimansin and T. C. O'Connor*

PO57. Tuning supramolecular weight distributions and nonlinear rheology in blends of linear telechelic polymer. *S. Liu, M. Chen and T. C. O'Connor*

PO58. Simulation of particulate flows in viscoelastic fluid using immersed boundary Lattice Boltzmann Method. *G. Jeong, Y. K. Lee and J. Nam*

PO59. Melt rheology of bio-based polymer composites: Effects of polymer blend ratio and wood filler loading. *A. Khatiwada, K. E. Slavny, A. M. Hubbard and R. D. Corder*

PO60. Thermo-rheological behavior of biopolymer blends. *S. A. Nadkarni and S. Khan*

PO61. Microstructured polymer electrolytes with high Li-ion conductivity by tuning structural uniformity. *L. Laugeni, F. Lorandi and R. Pasquino*

PO62. Interplay of conductivity and rheology of polymer electrolytes containing Li^+ and Mg^{2+}. *F. Naderi Samani, Z. Zhou, A. Dwivedi, S. Paddison and R. Foudazi*

PO63. Shape memory microparticles for tailoring the flow behavior and aging of suspensions. *C. Martinez Narvaez, C. Chen, S. Rowan and J. de Pablo*

PO64. Optical tribo-rheoscope for 4D spatiotemporal characterization of model Soft Earth analogs. *E. D. Sigg, D. J. Jerolmack, S. Pradeep and P. E. Arratia*

PO65. Time-resolved rheology of dental molding elastomers during gelation. *R. Placino and B. Keshavarz*

PO66. Interpenetrated hydrogel with tunable stiffness and strength. *A. G. Bernard, P. Sarkar and K. Mukhopadhyay*

PO67. Stress relaxation in dense suspensions of sticky particles. *H. K. Yankah, M. Cloitre and F. Khabaz*

PO68. Effects of solvent polarity on the burst of a natural rubber balloon. *R. Nedoluha, C. W. Barney and G. Wnek*

PO69. Synthesis, hydrogelation, and adhesion of bioinspired block copolymers. *F. Albreiki and S. Srivastava*

PO70. How gel architecture controls ductility and dissipation in single and double network gels. *R. B. Tchuenkam*

PO71. Rheology of semiflexible filament gels with polymer-mediated attractive interactions. *R. Wattana and C. Osuji*

PO72. Viscoelasticity and extensional rheology of polystyrene vitrimers. *T. Guarino, A. Russo, A. Mavromanolakis, M. Conti, N. Van Zee, R. Nicolay, S. Coppola and D. Vlassopoulos*

PO73. Evolution of nonmonotonic viscous moduli during the formation of polymer hydrogels. *E. L. Quirk, J. Shi, S. A. Rogers and D. J. Mai*

PO74. Investigating viscoelastic properties of vacuum distillation residue oils. *J. S. Weston, C. Pitti and P. Holmes*

PO75. Tuning the microstructure and particulate network in attractive colloidal gels through oscillatory shear flows. *M. Tan and S. Jamali*

PO76. Solvent mixture effect on the rheological behavior of amphiphilic block copolymer self-assemblies. *S. M. Tabatabaei and R. Foudazi*

PO77. Convenient updates for lab viscosity and rheology measurements. *D. J. Moonay*

PO78. Characterization of gas-solid multiphase flows using a powder flow cell coupled to an air-bearing rheometer with a toroidal-flow distributor. *N. V. S. K. Palla, A. Shetty and P. R. Mort*

PO79. Extracting molecular-level insights into wormlike micelle systems in complex flows using a fluidic four-roll mill. *J. J. Lin, A. Mangesh, A. Datta, M. D. Graham and M. E. Helgeson*

PO80. Coupling rheology and microstructure in real time: Advances in rheo-polarized imaging. *T. Sato and A. Shetty*

PO81. 4D Rheo-SANS investigation of the structure-property relationships of nanoparticle gels. *T. Egnaczyk and N. Wagner*

PO82. On making rheological measurements using a minimum amount of sample. *R. Waiba, A. Shukla and C. W. Macosko*

PO83. Developing an optical microscopy method for identifying microplastics in environmental samples. *M. Hajirezaei and R. Poling-Skutvik*

PO84. Challenges in rheometric signal denoising: Limitations of traditional filters and the potential of latent space modelling. *M. Das, D. Vadillo, A. Perego and G. McKinley*

PO85. Some useful methods for gathering and analyzing rheological data. *M. T. Shaw*

PO86. From chains to networks: Viscoelastic behavior of Vibrio cholerae polysaccharide (VPS). *A. P. Moreau, N. Fowler, R. Kandel, A. Hinbest, R. Woods, R. Olson and J. Yan*

PO87. Patterns of viscous intrusion in visco-elasto-plasto media. *B. Allen and N. W. Hayman*

PO88. Optical visualization of plastron stability and wetting transitions on superhydrophobic surfaces. *E. Solano-Calderón and S. Mohammadshahi*

Gallery of Rheology

Preview: Starts Monday 1:30 PM at Sweeney Ballroom E+F
Online Voting: Monday 1:30 PM – Wednesday 8:00 PM through Meeting Web App
Sessions: Wednesday 6:30 PM – 8:30 PM at Sweeney Ballroom E+F

Images

GI1. Cutting edge: Fracture of viscoelastic liquids. *M. C. Marsh and R. H. Ewoldt*
GI2. Resuspension tree: Shaped by flow and gravity. *M. Mahmoudian, S. A. Rogers and P. Mirbod*
GI3. Twist the rainbow. *A. Shetty and C. Tang*
GI4. Luminous webs. *M. T. Hossain and R. H. Ewoldt*
GI5. Helix of growth. *M. T. Hossain, Y. S. Kim, S. H. Tawfick and R. H. Ewoldt*
GI6. The art of flow in 3D. *M. T. Hossain and R. H. Ewoldt*
GI7. Unraveling hagfish skeins. *M. T. Hossain, D. S. Fudge and R. H. Ewoldt*
GI8. Predicting complex structure. *R. Campbell, C. Zhuang, P. Haghighi, A. Mohraz and S. Jamali*
GI9. The AI revelation: Using machine learning tools to accelerate micrograph analysis. *M. Kaboolian and K. A. Erk*
GI10. The treachery of modeling. *J. S. Weston and K. Weston*
GI11. Event-based capillarity-driven extensional rheometry. *L. N. Warwaruk and G. McKinley*
GI12. Mineralization. *A. N. Seshadri, J. A. Howarter and K. A. Erk*
GI13. Jellyfish: Oil drainage from porous hydrogels. *B. Valipour Goodarzi and R. Foudazi*
GI14. Frozen heart in gel. *H. Hossein, S. P. Mousavi and S. M. Taghavi*
GI15. Echoes of a vortex in soft-gel. *H. Hossein, T. Seyed Mohammad and M. Seyed Pedram*

Videos

GV1. Pinching cytoskeleton composites. *A. Razzaghi, M. T. Valentine, R. J. McGorty and R. M. Robertson-Anderson*
GV2. Jamming in sickle blood flow. *H. M. Szafraniec, F. Bull, P. Pearce and D. K. Wood*
GV3. Photoelastic microparticles glow as they flow. *K. Chaudhuri, B. Hayes and N. M. Vriend*
GV4. When bubbles fall in love: A cavitation tale. *H. Hossein, S. P. Mousavi and S. M. Taghavi*
GV5. Brownian dynamics simulations of chains in shear and extensional flow. *I. M. Pincus*
GV6. Windmills of your polymer. *A. Bhadu, A. M. Rhoades and R. H. Colby*
GV7. Waves, spirals, and chaos in soft matter! *T. Sato and A. Shetty*
GV8. Milk splash! *L. Edano and V. Sharma*
GV9. Defects, defects everywhere. *M. Kaboolian and K. A. Erk*
GV10. Formulation dynamics and shear stability of graphene–Carbopol nanofluids: From preparation to rheological performance. *Y. H. Santos, C. Tanner, G. Palaoro, D. V. Andrade and A. T. Franco*
GV11. Fluid intrusion and fingering across the viscous to solid transition. *B. Allen and N. W. Hayman*

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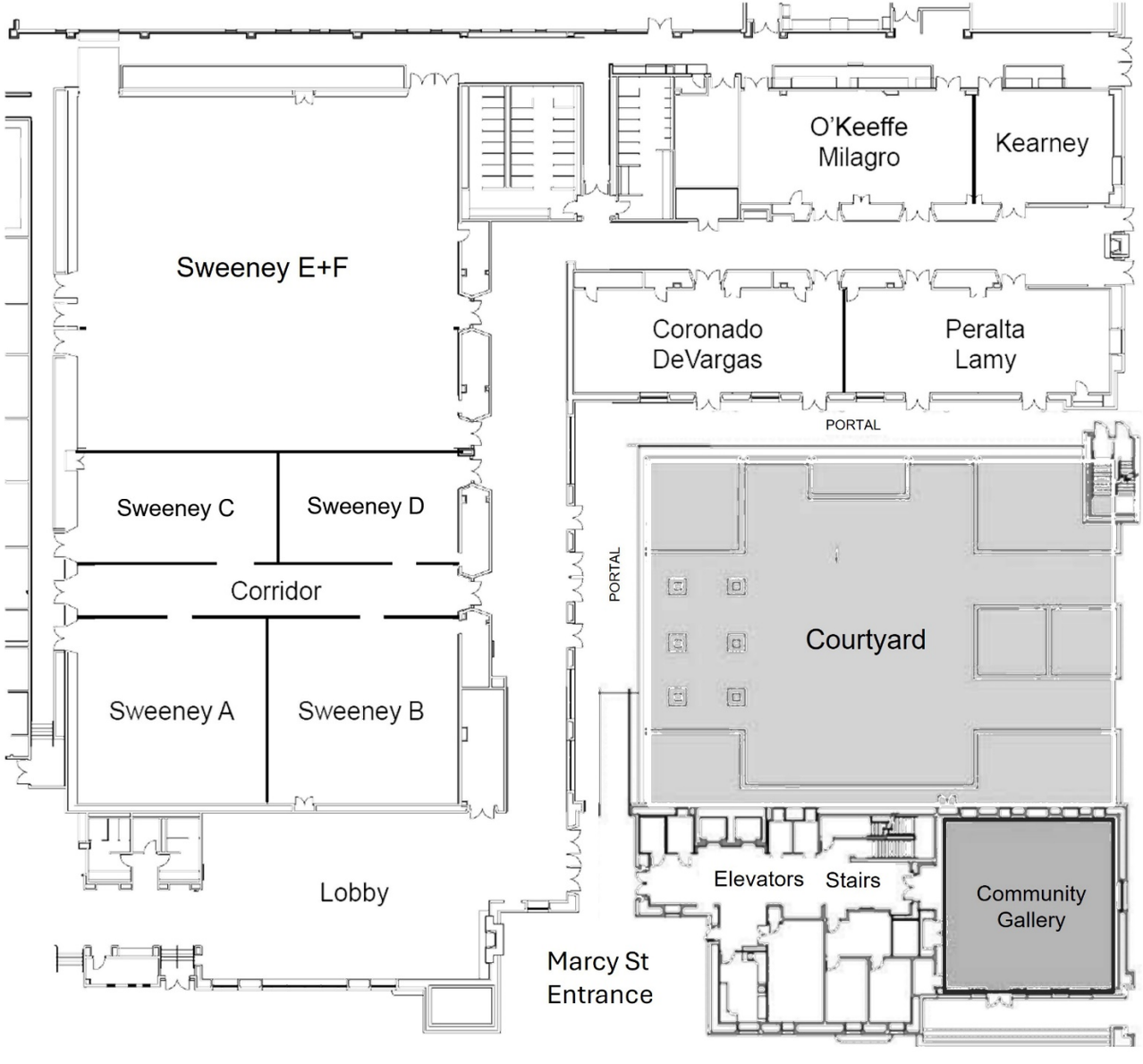
Santa Fe Community Convention Center Meeting Space



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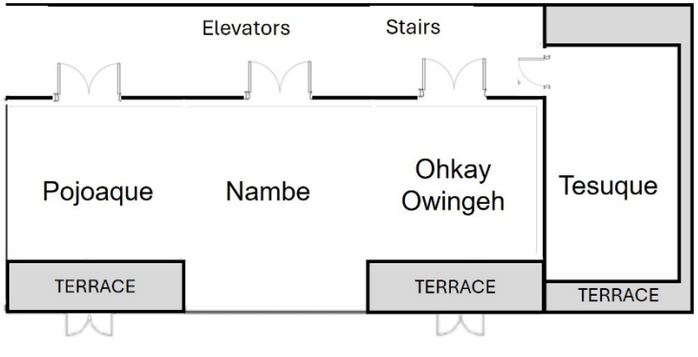

2nd FLOOR

Social Program and Special Events

Sunday, October 19

Rheology Research Symposium **(**continued from Saturday Oct 18)

Welcoming Reception
6:00 PM – 8:00 PM Santa Fe Convention Center Outdoor Plaza
Sponsored by Anton Paar USA

Monday, October 20

Exhibits
8:30 AM – 4:00 PM Santa Fe Convention Center Lobby

Geosciences Lunch, by invitation only
12:00 noon – 1:30 PM Pojoaque/Nambe/Ohkay Owingeh

Gallery of Rheology Preview
1:30 PM – Wed 4:00 PM Sweeney Ballroom E+F

Gallery of Rheology Online Voting
1:30 PM – Wed 8:00 PM Meeting Web App

Monday Evening Reception
7:00 PM – 9:00 PM New Mexico History Museum
Sponsored by TA Instruments

Tuesday, October 21

Exhibits
8:30 AM – 4:00 PM Santa Fe Convention Center Lobby

Society Business Meeting
12:00 noon – 1:30 PM Sweeney Ballroom E+F

Student Night
6:30 PM – 9:00 PM Tumbleroot Pottery Pub

Awards Banquet
8:00 PM Santa Fe Farmers' Market Pavilion
Bus to Pavilion leaves 6:30 – 8:00 PM from Grant St in front of Convention Center.

Wednesday, October 22

Exhibits
8:30 AM – 4:00 PM Santa Fe Convention Center Lobby

Student-Industry Forum
12:00 noon – 1:30 PM Pojoaque/Nambe/Ohkay Owingeh
Sponsored by Dow and American Institute of Physics

Poster Session and Reception
6:30 PM – 8:30 PM Sweeney Ballroom E+F
Reception sponsored by Anton-Paar USA

Gallery of Rheology Sessions
6:30 PM – 8:30 PM Sweeney Ballroom E+F
Equipment sponsored by Los Alamos National Laboratory
Online voting ends at 8:00 PM.

Thursday, October 23

Exhibits
8:00 AM – 10:35 AM Santa Fe Convention Center Lobby

The Society of Rheology gratefully acknowledges the generous support of Anton-Paar USA, TA Instruments, Dow, American Institute of Physics, Sandia National Laboratories and Los Alamos National Laboratory.