The Society of Rheology 85th Annual Meeting
Hilton Montréal Bonaventure, Montréal, Québec, Canada

Meeting Schedule

Monday, October 14, 2013

	WS	*VL*	*OT*	*MH*	*CS*
8:30			T. van de Ven (PL1) - *WS*		
9:20			Coffee Break		
10:00	SC1	IP1	MB1	PS1	EM1
10:25	SC2	IP2	MB2	PS2	EM2
10:50	SC3	IP3	MB3	PS3	EM3
11:15	SC4	IP4	MB4	PS4	EM4
11:40	SC5	IP5	MB5	PS5	EM5
12:05			Lunch Break		
1:30	SC6	IP6	MB6	PS6	EM6
1:55	SC7	IP7	MB7	PS7	EM7
2:20	SC8	IP8	MB8	PS8	EM8
2:45	SC9	IP9	MB9	PS9	EM9
3:10			Coffee Break		
3:35	SC10	MS1	MB10	PS10	EM10
4:00	SC11	MS2	MB11	PS11	EM11
4:25	SC12	MS3	MB12	PS12	EM12
4:50	SC13	MS4	MB13	PS13	EM13
5:15	SC14	MS5	MB14	PS14	EM14
5:40			End		
6:00			Industry/Faculty/Student Forum and Mixer *Rheology in the Real World*		

Tuesday, October 15, 2013

	WS	*VL*	*OT*	*MH*	*CS*
8:30			G. H. McKinley (PL2) - *WS*		
9:20			Coffee Break		
10:00	SC15	MS6	MB15	PS15	BM1
10:25	SC16	MS7	MB16	PS16	BM2
10:50	SC17	MS8	MB17	PS17	BM3
11:15	SC18	MS9	MB18	PS18	BM4
11:40	SC19	MS10	MB19	PS19	BM5
12:05			Lunch Break / Society Business Meeting		
1:30	SC20	IP10	MB20	NF1	BM6
1:55	SC21	IP11	MB21	NF2	BM7
2:20	SC22	IP12	MB22	NF3	BM8
2:45	SC23	IP13	MB23	NF4	BM9
3:10			Coffee Break		
3:35	SC24	GS1	MB24	NF5	SG1
4:00	SC25	GS2	MB25	NF6	SG2
4:25	SC26	GS3	MB26	NF7	SG3
4:50	SC27	GS4	MB27	NF8	SG4
5:15	SC28	GS5	MB28	NF9	SG5
5:40			End		
7:00			Awards Reception		
8:00			Awards Banquet		

Wednesday, October 16, 2013

	WS	*VL*	*OT*	*MH*	*CS*
8:30			P. Carreau (PL3) - *WS*		
9:20			Coffee Break		
10:00	SC29	GS6	MB29	NF10	SG6
10:25	SC30	GS7	MB30	NF11	SG7
10:50	SC31	GS8	MB31	NF12	SG8
11:15	SC32	GS9	MB32	NF13	SG9
11:40	SC33	GS10	MB33	NF14	SG10
12:05			Lunch Break		
1:30	SC34	GS11	MB34	NF15	BM10
1:55	SC35	GS12	MB35	NF16	BM11
2:20	SC36	GS13	MB36	NF17	BM12
2:45	SC37	GS14	MB37	NF18	BM13
3:10			Coffee Break		
3:35	SC38	GS15	MB38	NF19	BM14
4:00	SC39	GS16	MB39	NF20	BM15
4:25	SC40	GS17	MB40	NF21	BM16
4:50	SC41	GS18	MB41	NF22	BM17
5:15			End		
5:30			Poster Session & Reception		

Thursday, October 17, 2013

	WS	*VL*	*OT*	*MH*	*CS*
8:00			P. T. Underhill (AP1) - *WS*		
8:40	SC42	GS19	MB42	NF23	BM18
9:05	SC43	GS20	MB43	NF24	BM19
9:30	SC44	GS21	MB44	NF25	BM20
9:55			Coffee Break		
10:25	SC45	GS22	MB45	NF26	BM21
10:50	SC46	GS23	MB46	NF27	BM22
11:15	SC47	GS24	MB47	NF28	BM23
11:40	SC48	GS25	MB48	NF29	BM24
12:05	SC49	GS26	MB49	NF30	BM25
12:30			End		

Session and Room Codes

AP = Award Presentations
BM = Rheology and Processing of Bio-based Materials
EM = Experimental Methods
GS = Gels and Self-assembled Systems
IP = Interfacial Phenomena
MB = Polymer Melts and Blends
MS = Rheology at the Microscopic Scale
NF = Non-Newtonian Flows
PL = Plenary Lectures
PS = Polymer Solutions
SC = Suspensions and Colloids
SG = Solids, Glasses and Composites

CS = Côte-St-Luc
FN = Salons Fontaine C-H
MH = Mont-Royal/ Hampstead
OT = Outremont
VL = Verdun/Lachine
WS = Westmount

Monday, October 14

Morning

8:30 **PL1.** Rheology of cellulose hydrogels. *T. van de Ven, L. Jowkarderis and R. Hill* Westmount

9:20 COFFEE BREAK

	Westmount	*Verdun/Lachine*	*Outremont*	*Mont-Royal/ Hampstead*	*Côte-St-Luc*
	Suspensions and Colloids	**Interfacial Phenomena**	**Polymer Melts and Blends**	**Polymer Solutions**	**Experimental Methods**
10:00	**SC1.** Coarsening in colloidal gels: Micromechanics and rheology. *R. N. Zia, B. J. Landrum and W. B. Russel*	**IP1.** Template induced directed self-assembly of an intrinsically disordered protein at model hydrophobic interfaces: Can studying interfacial phenomenon tell us more? *P. Dhar*	**MB1.** Structure and rheological properties of a semiconducting polymer gel to manufacture a solar cell. *M. E. Mackay, N. Nguyen and H. Shen*	**PS1.** On the eigenfunctions for Hookean and FENE dumbbells. *M. Renardy*	**EM1.** Unambiguous determination of the yielding transition in elasto-visco-plastic materials undergoing large amplitude oscillatory shear. *S. A. Rogers and G. H. McKinley*
10:25	**SC2.** Fluid flow through networks in the collapse of colloidal gels. *A. M. Mertz, A. L. Graham, S. Feng, A. Redondo and M. Ingber*	**IP2.** Dynamic contact angles of Newtonian and viscoelastic fluids on hydrophobic and superhydrophobic surfaces. *J.-H. Kim and J. Rothstein*	**MB2.** Does confinement promote coalescence in sheared immiscible blends? *P. De Bruyn, R. Cardinaels and P. Moldenaers*	**PS2.** Quantifying chain deformation in Couette flow using FRET. *N. Y. Chan, M. Chen, T. A. Smith and D. E. Dunstan*	**EM2.** Inline rheology measurement of foods, personal care products and oilfield fluids using a non-invasive rheometer. *E. J. Tozzi and M. J. McCarthy*
10:50	**SC3.** Anomalous large-scale dynamics of colloidal gels probed by dynamic microscopy. *Y. Gao and M. E. Helgeson*	**IP3.** Simultaneous interfacial rheology and mesostructure measurement of particle laden interfaces using a modified double wall ring interfacial rheometer. *S. Barman and G. F. Christopher*	**MB3.** Entanglement and tube diameter in blends of stiff and flexible chains studied by primitive path analysis. *J.-I. Takimoto, S. K. Sukumaran and Y. Suzuki*	**PS3.** Drag reduction induced by flexible and rigid molecules in a turbulent flow into a rotating cylindrical double gap device: Comparison between poly(ethylene oxide), polyacrylamide, and xanthan gum. *A. S. Pereira, R. M. Andrade and E. J. Soares*	**EM3.** Effect of wall-slip phenomena on yield stress measurements in cyclopentane hydrate slurry. *A. Ahuja, P. U. Karanjkar, G. Zylyftari and J. F. Morris*
11:15	**SC4.** Effects of particle scale dynamics on the structural evolution of anisotropic colloid–polymer systems. *S. Kishore, Y. Chen, S. Srivastava and S. R. Bhatia*	**IP4.** Interfacial dilatational rheology. *G. J. Elfring, L. G. Leal and T. Squires*	**MB4.** A thermo-rheological study on the structure property relationships in the reinforcement of nylon 6-POSS blends. *R. J. Andrade, J. Maia and R. Huang*	**PS4.** The role of normal stresses in shear, in flows with extension. *D. F. James*	**EM4.** A Jeffreys rheology framework for gels under LAOS. *P. R. de Souza Mendes, A. A. Alicke, R. T. Leite and R. L. Thompson*
11:40	**SC5.** Flow behavior and dynamics of colloid-polymer depletion mixtures in confinement. *R. Pandey and J. C. Conrad*	**IP5.** Probing dilational interfacial stresses of complex interfaces using a microscale spherical bubble. *A. P. Kotula and S. L. Anna*	**MB5.** Dynamic dilution effect in binary blends of linear polymers. *E. van Ruymbeke and H. Watanabe*	**PS5.** Estimation of the first normal stress difference from the shear viscosity data. *V. Sharma*	**EM5.** Elements of the rheology of waxy oils. *R. Venkatesan*

12:05 LUNCH BREAK

Afternoon

	Westmount	*Verdun/Lachine*	*Outremont*	*Mont-Royal/ Hampstead*	*Côte-St-Luc*
	Suspensions and Colloids	**Interfacial Phenomena**	**Polymer Melts and Blends**	**Polymer Solutions**	**Experimental Methods**
1:30	**SC6.** Effects of cell density and biopolymer addition of the flow behaviour of concentrated mammalian cell suspensions. *B. G. Maisonneuve, D. C. Roux and J. J. Cooper-White*	**IP6.** Quasi-linear rheological models and elastic contributions to pressure-area isotherm measurements. *J. Vermant, T. Verwijlen and L. imperiali*	**MB6.** Role of extensional viscosity in the formation and control of cocontinuous polymer blends. *A. T. Hedegaard, M. Trifkovic, L. Gu and C. W. Macosko*	**PS6.** Emulsification in viscoelastic solutions. *C. Locatelli-Champagne, R. Bonnecaze and M. Cloitre*	**EM6.** Linear oscillatory dynamics of flexoelectric membranes embedded in viscoelastic media with applications to outer hair cells. *M. Abou-Dakka, E. E. Herrera-Valencia and A. D. Rey*
1:55	**SC7.** Margination and segregation of self-propelled particles in blood flow. *A. Kumar and M. D. Graham*	**IP7.** Computational investigation of the effect of insoluble surfactant on drop formation in a microfluidic device. *P. Jang Min, M. A. Hulsen and P. Anderson*	**MB7.** Analysis of the phase structure of molten polymer blends using a modified Gramespacher-Meissner model. *M. Mihalic and A. Schausberger*	**PS7.** Role of secondary protein content in the rheology of synovial fluid. *Z. Zhang and G. F. Christopher*	**EM7.** Temperature-step rheology to probe unusual materials: From nanoscale materials to ancient fossil resins. *G. B. McKenna, W. Jinhua, J. Zhao and A. K. Torres Arellano*

2:20	**SC8.** Numerical simulation study of the deterministic vector separation of rigid particles and deformable capsules over slanted open cavities. *J. A. Bernate, Y. Mengfei, H. Zhao, S. Risbud, C. Paul, M. Dallas, K. Konstantopoulos, G. Drazer and E. Shaqfeh*	**IP8.** Interfacial shear rheology and drop-drop coalescence. *D. Harbottle, K. Moorthy and Z. Xu*	**MB8.** Rheological and electrical determination of phase separation and localization phenomena in poly (methyl methacrylate) (PMMA) / poly (styrene-co-acrylonitrile) copolymer (SAN) / multi-walled carbon nanotube nanocomposites. *A. Sarvi, S. Sadeghi and U. Sundararaj*	**PS8.** Is DNA a good model polymer? *A. Muralidhar, D. R. Tree, P. S. Doyle and K. D. Dorfman*	**EM8.** Investigation of anisotropic thermal transport in polymers using infrared thermography. *D. Nieto Simavilla and D. C. Venerus*
2:45	**SC9.** Self-propelled soft-core dumbbells for the simulation of living fluids. *D. F. Hinz, A. Panchenko, T.-Y. Kim and E. Fried*	**IP9.** Exploring the kinematics of extensional coalescence of drop pairs and chains. *A. S. Burbidge and D. Z. Gunes*	**MB9.** Rheology of PP/PPMA and PP/PPAA blends and its incidence on the crystalline structure of their cast films. *A. Saffar, A. Ajji, P. Carreau and M. R. Kamal*	**PS9.** Single molecule studies of DNA collapse in slit-like confinement. *J. J. Jones and P. S. Doyle*	**EM9.** Extensional flow and small angle neutron scattering. *K. M. Weigandt and R. L. Jones*
3:10			COFFEE BREAK		
		Rheology at the Microscopic Scale			
3:35	**SC10.** Shear-induced diffusion of cubic colloids. *J. R. Royer, D. L. Blair and S. D. Hudson*	**MS1.** Nonlinear signatures of entangled polymer solutions in active microbead rheology. *P. A. Vasquez, J. A. Cribb, G. Forest and R. Superfine*	**MB10.** The rheological behavior of poly(lactic acid)/poly(butylene succinate) blends. *H. Eslami and M. R. Kamal*	**PS10.** Crooks fluctuation theorem for flowing polymer solutions. *F. Latinwo and C. M. Schroeder*	**EM10.** Precision rheometry: Surface tension effects on low-torque measurements in rotational rheometers. *M. T. Johnston and R. H. Ewoldt*
4:00	**SC11.** Suspension of cubic particles under shear. *R. K. Mallavajula, L. A. Archer and K. L. Donald*	**MS2.** Limitation in single-bead passive microrheology. *T. Indei, J. D. Schieber, A. Cordoba, M. Karim and R. Khare*	**MB11.** Effects of montmorillonite on the rheological properties of SBS/asphalt/sulfur blends. *M. Jasso, J. Stastna, D. Bakos and L. Zanzotto*	**PS11.** Coarse-grained model of polymer electrophoresis including conformation-dependent mobility. *H. Pandey and P. T. Underhill*	**EM11.** An enhanced rotational rheometer system with two motors. *J. Laeuger*
4:25	**SC12.** Modeling tube-tube interactions in carbon nanotube suspensions. *G. Natale, G. Ausias, M.-C. Heuzey, P. Carreau and J. Ferec*	**MS3.** Microviscosity measurements of protein solutions. *L. L. H. Josephson and E. M. Furst*	**MB12.** Constitutive model for flow-induced orientation and disentanglement in extensional flows of entangled polymer melts and solutions. *D. S. Priyanka and R. G. Larson*	**PS12.** Blob-theoretic predictions for coil-stretch hysteresis in extensional flows of self-concentrating polymer solutions. *R. Prabhakar*	**EM12.** Orthogonal superposition (OSP) of small strain oscillation shear on steady or oscillation shear on a rotational rheometer. *A. J. Franck*
4:50	**SC13.** Rheological hysteresis of periodically functionalized multi-walled carbon nanotubes non-Brownian suspensions. *S. Sadeghi and U. Sundararaj*	**MS4.** Microrheology of polysaccharides found in the extracellular matrix of bacterial biofilms. *M. Ganesan, J. G. Younger and M. J. Solomon*	**MB13.** Rate-dependent strain hardening of commercial polyethylene resin observed with an extension rheometer. *T. Li, W. Lin and J. W. Teh*	**PS13.** Brownian dynamics simulations of semidilute polymer solutions undergoing planar mixed flow. *A. Jain, R. Hartkamp, C. Sasmal, A. S. Mehrotra, B. D. Todd, R. Prabhakar and J. R. Prakash*	**EM13.** Effects of instrument inertia on the variation of experimental data in creep measurementssurements. *A. Maani and P. Carreau*
5:15	**SC14.** The use of interaction tensors to describe and predict rod interactions in rod suspensions. *J. Férec, E. Abisset-Chavanne, G. Ausias and F. Chinesta*	**MS5.** High frequency dynamics of a liquid crystalline, cyanobacterial, sulfated polysaccharide studied by DLS/DWS microrheology. *T. Narita, G. Ducouret, M. Kawai, T. Mitsumata, M. K. Okajima and T. Kaneko*	**MB14.** Entangled comb polymers in uniaxial extension: Experiments and modeling. *H. Lentzakis, D. Vlassopoulos, D. J. Read and C. Das*	**PS14.** Stress relaxation of entangled polystyrene solution after constant-rate, uniaxial elongation. *Y. Matsumiya, Y. Masubuchi, H. Watanabe, Q. Huang, H. K. Rasmussen, N. J. Alvarez and O. Hassager*	**EM14.** Parallel-plate geometry correction for transient rheometric experiments. *P. R. de Souza Mendes and A. A. Alicke*
5:40			END		
6:00			Industry/Faculty/Student Forum and Mixer: *Rheology in the Real World* Salon Lachine		

Tuesday, October 15

Morning

8:30 **PL2.** Power-law gels, Scott-Blair and the fractional calculus of soft networks. *G. H. McKinley* (Bingham Lecture) Westmount

9:20 COFFEE BREAK

	Westmount	*Verdun/Lachine*	*Outremont*	*Mont-Royal/ Hampstead*	*Côte-St-Luc*
	Suspensions and Colloids	**Rheology at the Microscopic Scale**	**Polymer Melts and Blends**	**Polymer Solutions**	**Rheo. & Proc. of Bio-based Materials**
10:00	**SC15.** Rheology and microstructure of concentrated, near hard-sphere colloidal dispersions under steady shear and LAOS in all three planes of shear. *A. K. Gurnon, L. Porcar and N. J. Wagner*	**MS6.** Carbon nanotubes as mechanical probes of equilibrium and non-equilibrium biopolymer networks. *N. Fakhri, M. Pasquali, F. C. MacKintosh and C. F. Schmidt*	**MB15.** Structural response of a pre-aligned cylindrical block copolymer to uniaxial extensional flow. *E. McCready and W. Burghardt*	**PS15.** Instability mechanisms in the viscoelastic flow past bluff bodies. *V. Citro, L. Brandt and F. Giannetti*	**BM1.** Quantifying structural protein contributions to cell mechanics with a live cell monolayer rheometer. *C. M. Elkins, W.-J. Shen, V. Khor, F. Kraemer and G. G. Fuller*
10:25	**SC16.** Examining the shear-induced thickening of fumed silica CMP slurries using high shear rheo-SALS. *M. W. Liberatore, N. Crawford, K. Williams and D. Boldridge*	**MS7.** Shear rheology of deformable microgel particles in direct confinement. *B. D. Jofore, P. Moldenaers and C. Clasen*	**MB16.** Thermo-rheological behavior of TPUs under high-strain extensional flow and its relation with morphology development and rupture dynamics. *R. J. Andrade and J. Maia*	**PS16.** Why the true strain hardening in extension and shear indicates the limitation of the tube model? *S.-Q. Wang, G. Liu and H. Sun*	**BM2.** Attractive interactions among intermediate filaments control networks mechanics. *N. Willenbacher*
10:50	**SC17.** Modeling the thixotropic behavior of concentrated suspensions in large amplitude oscillatory shear (LAOS) experiments. *M. J. Armstrong, A. N. Beris, N. J. Wagner and J. M. Kim*	**MS8.** A vesicle instability at low reduced volume in extensional flow. *A. P. Spann, V. Narsimhan and E. Shaqfeh*	**MB17.** Mechanical characterization tools for thin polymer membranes at fuel cell operating conditions. *B. R. Caire, M. A. Vandiver, Y. Li, D. M. Knauss, A. M. Herring and M. W. Liberatore*	**PS17.** A rheological approach to determine the phase behavior and critical solution temperatures of polymer solutions. *M. Pakravan, M.-C. Heuzey and A. Ajji*	**BM3.** Single particle tracking for understanding E. coli biofilm structure and dynamics. *A. Birjiniuk, E. Nance, J. Hanes, K. Ribbeck and P. S. Doyle*
11:15	**SC18.** Discontinuous shear thickening as a dynamic jamming transition of frictional particles. *R. Seto, R. J. Mari, J. F. Morris and M. M. Denn*	**MS9.** Escape of a knot from a polymer under various states of tension. *B. Renner and P. S. Doyle*	**MB18.** Crystallization of polypropylene: The effect of different parameters and testing suspension models to describe shear effects. *M. Derakhshandeh, S. G. Hatzikiriakos and A. K. Doufas*	**PS18.** Thermal stability and rheological properties of viscoelastic surfactant in high-temperature high-salinity environment. *M. S. Kamal, I. A. Hussein, A. S. Sultan and H. Ming*	**BM4.** Effect of viscoelasticity on the collective behavior of the suspension of motile cells. *A. Karimi and A. M. Ardekani*
11:40	**SC19.** Shear-induced irreversible breakdown of shear thickening fluids. *J. E. Seppala, R. L. Jones, K. D. Rice and G. A. Holmes*	**MS10.** Conformational dynamic behavior of single polyelectrolyte chains confined in micro and nanochannels. *K. Yoon, H. W. Jung and M.-S. Chun*	**MB19.** Shear-induced crystallization of polypropylene: A rheological study with in-situ DSC and WAXD. *P. C. Roozemond and G. Peters*	**PS19.** Rheological characterization and mass spectrum analysis of guar gum solution after mannanase treatment. *B. Zhang, M. Weinshank, G. P. Matthew, A. H. Davenport and M. A. Wall*	**BM5.** Upstream migration of endothelial cells in response to impinging fluid flows. *M. A. Ostrowski, E.-H. Huang, N. F. Huang, T. W. Walker, J. P. Cooke, A. R. Dunn and G. G. Fuller*

12:05 LUNCH BREAK / SOCIETY BUSINESS MEETING Salon Westmount

Afternoon

	Westmount	*Verdun/Lachine*	*Outremont*	*Mont-Royal/ Hampstead*	*Côte-St-Luc*
	Suspensions and Colloids	**Interfacial Phenomena**	**Polymer Melts and Blends**	**Non-Newtonian Flows**	**Rheo. & Proc. of Bio-based Materials**
1:30	**SC20.** Concentrated hard sphere crystals under oscillatory shear: Stresses and dynamics. *N. Koumakis, J. F. Brady and G. Petekidis*	**IP10.** Droplets break-up in high internal phase emulsion under flow. *V. Mansard, T. Squires and J. Mecca*	**MB20.** Flow induced crystallization of isotactic polypropylene. *F. G. Hamad, S. T. Milner and R. H. Colby*	**NF1.** Displacement flow of yield stress fluids in highly inclined pipes. *K. Alba, S. M. Taghavi, J. de Bruyn and I. Frigaard*	**BM6.** A new extended non-homogeneous constitutive model for human blood. *A. Jafari and R. G. Owens*
1:55	**SC21.** Shear thickening behavior of colloidal suspensions under bi-axial shear. *N. Lin and I. Cohen*	**IP11.** Liquid foams: Fracture dynamics and film instability. *S. Hilgenfeldt, P. Stewart and S. H. Davis*	**MB21.** SAXS/WAXS studies of flow-induced crystallization of poly(1-butene) in shear flow. *B. Luo and W. Burghardt*	**NF2.** Utilizing an elasto-viscoplastic model to predict the downhole pressure profile after primary cementing. *F. H. Marchesini and R. M. Oliveira*	**BM7.** A constitutive model for the nonlinear viscoelastic behavior of the fibrin network in blood clots. *T. van Kempen, F. van de Vosse and G. Peters*

2:20	**SC22.** The viscometric functions of concentrated shear-thickening colloidal suspensions. *C. D. Cwalina and N. J. Wagner*	**IP12.** Micro and macrorheological methods at fluid-fluid interfaces. *J. R. Samaniuk and J. Vermant*	**MB22.** Stress overshoots in simple shear flow of entangled combs. *F. Snijkers, D. Vlassopoulos, T. Chang, G. Ianniruberto and G. Marrucci*	**NF3.** Finite element approximations for the flow of thixotropic elasto-viscoplastic materials through an abrupt expansion. *C. E. Fonseca, F. B. Link, S. Frey, M. F. Naccache and P. R. de Souza Mendes*	**BM8.** Research review on molecular dynamics and rheological properties of the gel of the deoxy-hemoglobin S molecules in sickle cell anemia. *F. E. Mensah*
2:45	**SC23.** Constant pressure simulation of dense colloidal suspensions. *M. Wang and J. F. Brady*	**IP13.** Free impinging jet microreactors: Controlling reactive flows via fluid viscoelasticity and capillarity. *P. Erni*	**MB23.** Dielectric relaxation of monodisperse linear polyisoprene: Contribution of constraint release. *H. Watanabe and Y. Matsumiya*	**NF4.** Residual deposits of yield stress fluids at the wall in Poiseuille flows along uneven channel. *A. Roustaei and I. Frigaard*	**BM9.** Segregation of particles sujbect to magnetic forces in cellular blood flow in a model microvessel. *J. B. Freund*
3:10			COFFEE BREAK		
		Gels and Self-assembled Systems			**Solids, Glasses and Composites**
3:35	**SC24.** Rheology of a concentrated bimodal suspension. *K. Yu and N. C. Shapley*	**GS1.** Stress diffusion in shear-banding wormlike micelles. *S. Lerouge, M. A. Fardin and O. Radulescu*	**MB24.** Rheological properties of Pd-diimine polyethylenes of complex chain architectures. *Z. Ye and R. Subramanian*	**NF5.** A canonical framework for modeling elasto-viscoplasticity in complex fluids. *C. J. Dimitriou and G. H. McKinley*	**SG1.** Formation of fractal-like structure in organoclay based polypropylene nanocomposites. *T. Domenech, R. Zouari, E. Peuvrel-Disdier and B. Vergnes*
4:00	**SC25.** Colloidal microstructure in sheared Boger fluids. *M. T. Perera and J. F. Gilchrist*	**GS2.** Structure formation in extensional flow of wormlike micellar solutions as revealed by capillary breakup extensional rheometry experiments. *N. Willenbacher*	**MB25.** Non-kinematic approach to the Leonov model. *K. S. Cho*	**NF6.** Stretch and relax: A filament calculation with yield stress properties. *Y. Renardy and H. Grant*	**SG2.** Varying effects of extrusion on structure and rheology of polypropylene-layered silicate nanocomposites. *W. Ren, K. Jayaraman and A. K. Chaudhary*
4:25	**SC26.** Diffusion and transport of nanoparticles in arrays of nanoposts. *K. He, F. Babaye Khorasani, J. C. Conrad and R. Krishnamoorti*	**GS3.** Flow pattern change through a formation of flow-induced structure in wormlike micelle solutions past arrays of microposts. *F. Mikami, T. Kumagai, H. Yoshikawa and M. Yasu*	**MB26.** A priori predictions of the shear rheology of polymer melts. *J. R. Dorgan and N. A. Rorrer*	**NF7.** Computations of shear thickening liquid in stretching free surface flow using a simple generalized Newtonian constitutive model. *J. A. Lee, S. Khandavalli, J. Rothstein and M. Pasquali*	**SG3.** Relationship between rheological and electrical percolation of nanocomposites based on iPP and TiO_2. *A. Zohrevand, A. Ajji and F. Mighri*
4:50	**SC27.** Capillary thinning dynamics of suspensions near pinch-off. *W. Mathues and C. Clasen*	**GS4.** NMR velocimetry of wormlike micelle solution flow in pipes and capillaries – apparent wall slip and shear banding. *W. H. Hartt and L. A. Bacca*	**MB27.** Polymerisation-to-processing molecular rheology modelling of long chain branched polymers. *T. C. McLeish, D. J. Read and C. Das*	**NF8.** Bifurcation phenomena in strong extensional flows. *F. A. Cruz, R. J. Poole, A. M. Afonso, F. T. Pinho, P. J. Oliveira and M. A. Alves*	**SG4.** Morphology and viscoelastic properties of ethylene-octene copolymer/nanosilica composites with varying polymer/filler interactions. *M. Bailly, K. Petrie, M. Kontopoulou, P. Xiang and Z. Ye*
5:15	**SC28.** Holistic modeling to predict stability of oil well cement slurries. *V. S. Goel, P. Otieno and R. Morgan*	**GS5.** Flow-induced gelation in a non-ionic wormlike micellar solution. *C. Joshua, L. Tonggu, L. Wang and A. Shen*	**MB28.** Equilibrium rheology predictions of the mobile slip-link model. *J. D. Schieber, T. Indei, M. Andreev and R. Steenbakkers*	**NF9.** Homogeneous planar elongational flow and elastic instabilities in an optimized-shape cross-slot extensional rheometer. *S. J. Haward and G. H. McKinley*	**SG5.** Rheological behavior of compatibilized polypropylene/flax fibre composites. *H. Sojoudiasli, P. Carreau and M.-C. Heuzey*
5:40			END		
7:00			AWARDS RECEPTION Salon Bonaventure (lobby level)		
8:00			AWARDS BANQUET Outremont Ballroom (lower level)		

Wednesday, October 16

Morning

8:30 **PL3.** Rheological characterization of polymer nanocomposites. *P. Carreau* Westmount

9:20 COFFEE BREAK

	Westmount	*Verdun/Lachine*	*Outremont*	*Mont-Royal/ Hampstead*	*Côte-St-Luc*
	Suspensions and Colloids	**Gels and Self-assembled Systems**	**Polymer Melts and Blends**	**Non-Newtonian Flows**	**Solids, Glasses and Composites**
10:00	**SC29.** Universal scaling of microscopic and macroscopic behavior in spherical non-colloidal suspensions with a non-Newtonian fluid matrix. *N. S. Martys, D. Lootens, W. L. George, P. Hébraud and M. Liard*	**GS6.** Dynamic rheology and microstructure of shear-banding wormlike micellar solutions using 1-2 plane flow-SANS. *A. K. Gurnon, C. R. Lopez-Barron, L. Porcar and N. J. Wagner*	**MB29.** A coarse-grained model for entangled polymer dynamics: Comparison with experimental rheological data. *A. Ramirez-Hernandez and J. J. de Pablo*	**NF10.** Different scaling laws for the thinning of a weakly elastic jet. *W. Mathues, C. McIlroy, O. G. Harlen and C. Clasen*	**SG6.** The role of concentration on shear stress growth and orientation evolution of long glass fiber suspensions. *M. J. Cieslinski, J. T. Hofmann and D. G. Baird*
10:25	**SC30.** Kinetic theory based models for high concentrated suspensions in generic suspendant fluids. *E. Abisset-Chavanne, R. Mezher, J. Ferec, G. Ausias and F. Chinesta*	**GS7.** Aging and temperature studies of flow-induced structured phase in wormlike micellar solutions. *J. J. Cardiel, T. Lige, W. Liguo and A. Shen*	**MB30.** Atomistic simulation of dynamics of individual molecules in entangled polymers undergoing homogenous shear flow. *H. Nafar, B. J. Edwards and B. Khomami*	**NF11.** Drop-on-demand printing of complex liquids. *N. F. Morrison and O. G. Harlen*	**SG7.** Modeling yielding and strain hardening in glassy polymers. *R. G. Larson and W. Zou*
10:50	**SC31.** Mesoscale simulation of colloidal suspensions at equilibrium. *S. Jamali, A. Boromand and J. Maia*	**GS8.** Transient dynamics of a thermodynamically consistent model for wormlike micellar solutions. *N. Germann, L. P. Cook, A. N. Beris and N. J. Wagner*	**MB31.** Inference of polymer structure by simultaneous analysis of chromatographic and rheological measurements. *S. Shanbhag*	**NF12.** Reconstructed dynamics of in situ mechanical pressure fluctuations during the extrusion flow of polymer melts. *R. Kádár, I. C. Naue and M. Wilhelm*	**SG8.** Time-strain superposition in soft glasses. *S. Srivastava and L. A. Archer*
11:15	**SC32.** Numerical studies of inertial suspensions of non-Brownian rigid spheres: Steady and periodic shear. *L. Brandt, J. Rabault and F. Picano*	**GS9.** A free-energy density for wormlike micelles. *M. Asgari, B. Seguin and E. Fried*	**MB32.** Dominance of intermolecular friction in fast deformation of polymer melts close to T_g, breaking away from the rubber elasticity model. *H. Sun and S.-Q. Wang*	**NF13.** Consequences of stress-concentration coupling in the flow of polymer solutions. *M. Cromer, Y. Dhane, G. Fredrickson and L. G. Leal*	**SG9.** Rheological hysteresis in soft glassy materials. *T. Divoux, V. Grenard and S. Manneville*
11:40	**SC33.** Secondary convection due to second normal stress differences: A new mechanism for the mass transport of solutes in the pressure-driven flow of concentrated, non-colloidal suspensions. *A. Ramachandran*	**GS10.** Creep, fracture and yielding of protein gels. *C. Perge, M. Leocmach, N. Taberlet, T. Divoux and S. Manneville*	**MB33.** Linear viscoelasticity of polyether-ester-sulfonate copolymer ionomers. *Q. Chen, G. J. Tudryn, H.-S. Shiau and R. H. Colby*	**NF14.** Numerical study of secondary flows of FENE rheological models in curved ducts. *J. M. Malheiro, P. J. Oliveira and F. T. Pinho*	**SG10.** Determination of the glass transition of sub-micron polymer films on a silicon wafer by DMA. *C. L. Jackson, R. C. Cieslinski, A. L. Roy and O. Ongayi*

12:05 LUNCH BREAK

Afternoon

	Westmount	*Verdun/Lachine*	*Outremont*	*Mont-Royal/ Hampstead*	*Côte-St-Luc*
	Suspensions and Colloids	**Gels and Self-assembled Systems**	**Polymer Melts and Blends**	**Non-Newtonian Flows**	**Rheo. & Proc. of Bio-based Materials**
1:30	**SC34.** Bond strength in colloidal gels measured from thermal rupture force distributions. *K. A. Whitaker, L. C. Hsiao, M. J. Solomon and E. M. Furst*	**GS11.** Equilibrium configurations of high density lipoproteins. *A. Biria and E. Fried*	**MB34.** Not all slip is the same. *J. R. Dorgan and N. A. Rorrer*	**NF15.** Computationally challenging 3D multiscale FENE dumbbell simulations on multi-GPU systems. *A. Rüttgers*	**BM10.** Red blood cell suspensions with polymer additives: Orientation, migration and margination dynamics. *K. K. Sinha and M. D. Graham*

1:55	**SC35.** Microrheology of soft particle pastes: Forced motion of a tagged particle in a jammed suspension. *L. Mohan, M. Cloitre and R. Bonnecaze*	**GS12.** Molecular features inferred from macroscopic rheology: Asymptotically-nonlinear material functions of LAOStrain (large-amplitude oscillatory shear strain). *N. A. K. Bharadwaj and R. H. Ewoldt*	**MB35.** Slip at the interface between immiscible polymer melts undergoing capillary flow. *S. K. Sukumaran, R. Komuro, M. Sugimoto and K. Koyama*	**NF16.** Different levels of approximation for the Reynolds stress tensor obtained from DNS of a FENE-P viscoelastic model in a drag reducing turbulent flow. *R. L. Thompson, L. Thais and G. Mompean*	**BM11.** A structural parameter thixotropic model for the transient shear flow of blood. *A. J. Apostolidis, M. J. Armstrong and A. N. Beris*
2:20	**SC36.** Capillary driven percolating networks in ternary particulate suspensions. *T. Domenech and S. Velankar*	**GS13.** Stochastic modeling and simulations of transient networks: Soft materials, gels and concentrated surfactants. *Y. Zeng, L. P. Cook and L. Zhou*	**MB36.** Viscoelasticity of diblock single-ion conducting ionomers. *J.-H. H. Wang and R. H. Colby*	**NF17.** Nonlinear dynamics of turbulent drag reduction by polymers. *S.-N. Wang, L. Xi, F. Hahn and M. D. Graham*	**BM12.** Meltability and viscoelastic behavior of mozzarella cheese with methocel as a water binder. *R. Subramanian*
2:45	**SC37.** Shear-induced structuration of suspensions of attractive particles. *N. Taberlet, V. Grenard and S. Manneville*	**GS14.** Linear viscoelasticity and swelling of complex coacervates formed from mixing aqueous solutions of polyanions and polycations. *F. Hamad, Q. Chen and R. H. Colby*	**MB37.** Investigation of morphology developments in block-copolymers via mesoscale simulations. *S. Khani, S. Jamali and J. Maia*	**NF18.** Polymer induced breakdown of large-scale Taylor vortex structures and the resulting drag enhancement in turbulent Taylor-Couette flows: Direct numerical simulations and mechanistic insight. *N. Liu and B. Khomami*	**BM13.** Capturing the temporal rheological properties of a hydrating starch based snack food: Elucidating the structure-function relationships for starch using α-amylase.*M. W. Boehm, J. E. Moore, F. J. Warren and J. R. Stokes*
3:10			COFFEE BREAK		
3:35	**SC38.** Size segregation in sheared two-dimensional polydisperse foam. *H. Mohammadigoushki and J. J. Feng*	**GS15.** Dynamics and microstructure of metallo-supramolecular networks. *H. Goldansaz, D. Auhl, C. Bailly and E. van Ruymbeke*	**MB38.** Physical origin of non-linearities in homopolymers and polymer nanocomposites. *E. Senses and P. Akcora*	**NF19.** Rheo-ultrasonic imaging of secondary flows in a Taylor-Couette device. *M. A. Fardin, C. Perge and S. Manneville*	**BM14.** Real-time monitoring of rheology in a fed-batch recycle reactor using a non-invasive rheometer. *E. J. Tozzi, M. J. Cardona, R. L. Powell and M. J. McCarthy*
4:00	**SC39.** Behavior of a static bubble in a yield stress fluid. *G. Samson, A. Phelipot-Mardelé and C. Lanos*	**GS16.** Viscoelasticity and shear-induced structure in nanoemulsion transient gels. *J. Kim, Y. Gao, E. Peirtsegaele, C. Hebebrand and M. E. Helgeson*	**MB39.** Clay platelets pin interfaces in polymer blends. *M. Trifkovic, A. T. Hedegaard and C. W. Macosko*	**NF20.** High Deborah number elastic instabilities around microfluidic confined cylinders. *S. Kenney, K. Poper, G. Chapagain and G. F. Christopher*	**BM15.** Numerical simulation of the flow of compressible viscoplastic biomass in a pipe. *A. Shahravan, J. C. Duncan, M. D. Graham and D. J. Klingenberg*
4:25	**SC40.** Particle sedimentation in emulsions under flow. *J. Maxey and Y. Hu*	**GS17.** Rheological observations near the gel point. *H. H. Winter*	**MB40.** Effect of particle size and shape on oscillatory and transient shear rheology of polymer nano-composites. *H. Mahi Hassanabadi, D. Rodrigue, M. Abbasi and M. Wilhelm*	**NF21.** Flow-induced microstructure of nematic liquid crystals between eccentric rotating cylinders. *N. Noroozi and D. Grecov*	**BM16.** Effects of degree of sulfation and ultrasound treatment (sonication) on the rheology and microstructure of cellulose nano-crystal (CNC) aqueous suspensions. *S. Shafiei-Sabet, W. Y. Hamad and S. G. Hatzikiriakos*
4:50	**SC41.** Bubble migration in two-dimensional foam under inhomogeneous shear: Effects of non-Newtonian rheology. *H. Mohammadigoushki and J. J. Feng*	**GS18.** Gelation and crosslinking in multi-functional thiol and multi-functional acrylate systems involving an in situ comonomer catalyst. *A. K. Higham, L. A. Garber, D. C. Latshaw II, C. K. Hall, J. A. Pojman and S. A. Khan*	**MB41.** Melt rheological characteristics of PET and PET nanocomposites after solid-state polymerization. *M. Dini, P. Carreau, M. R. Kamal and M.-T. Ton-That*	**NF22.** Rotation of an ellipsoidal particle in a viscoelastic liquid in an unconfined shear flow by numerical simulations. *G. D'Avino, F. Greco, M. A. Hulsen and P. L. Maffettone*	**BM17.** Macroscopic vs. microscopic rheological response of nanocrystalline cellulose suspensions. *B. Derakhshandeh, G. Petekidis and S. G. Hatzikiriakos*
5:15			END		
5:30			POSTER SESSION & RECEPTION Salons Fontaine C-H (lower level)		

Thursday, October 17

Morning

8:00 **AP1.** Active matter: Suspensions of self-propelled particles. *P. T. Underhill* (Metzner Award Presentation) Westmount

	Westmount	*Verdun/Lachine*	*Outremont*	*Mont-Royal/ Hampstead*	*Côte-St-Luc*
	Suspensions and Colloids	**Gels and Self-assembled Systems**	**Polymer Melts and Blends**	**Non-Newtonian Flows**	**Rheo. & Proc. of Bio-based Materials**
8:40	**SC42.** Enhancing rotational diffusion using oscillatory shear. *B. D. Leahy, X. Cheng, D. C. Ong, C. Liddell-Watson and I. Cohen*	**GS19.** Microrheological characterization of cell-mediated hydrogel degradation. *K. M. Schultz and K. S. Anseth*	**MB42.** Silica/poly (2-vinyl pyridine) nanocomposites: Segmental dynamics of polymers and the nanoparticle network. *S. Gong, J. F. Moll, Q. Chen, S. K. Kumar and R. H. Colby*	**NF23.** Dilute rigid dumbbell suspensions in large-amplitude oscillatory shear flow: Shear stress response. *R. B. Bird, A. J. Giacomin, C. Aumnate and A. M. Schmalzer*	**BM18.** Apparent yield stress measurements of cellulose nanofiber suspensions. *B. Nazari and D. W. Bousfield*
9:05	**SC43.** A hexatic-to-disorder transition in colloidal assembly near electrodes: Stronger flow yields less order. *C. S. Dutcher, T. J. Woehl, N. H. Talken and W. D. Ristenpart*	**GS20.** Control over the structure of conjugated polymers through kinetics of self-assembly. *P. de la Iglesia, G. Newbloom and D. C. Pozzo*	**MB43.** Rheological properties of polypropylene incorporating nanocrystalline cellulose. *V. Khoshkava and M. R. Kamal*	**NF24.** Coarse-grain tunable dissipative particle dynamics. Part 2: Droplet dynamics in micro- and nano-emulsions. *A. Boromand and J. Maia*	**BM19.** The rheology of paper coatings that contain cellulose nanofibers. *F. Richmond, A. Co and D. W. Bousfield*
9:30	**SC44.** The electrorheology of suspensions containing interfacially active constituents. *C. McIntyre, H. Yang and P. F. Green*	**GS21.** Predicting tack response of crosslinked and uncrosslinked gels using fractional constitutive equations. *A. Jaishankar and G. H. McKinley*	**MB44.** Role of small chains in interfacial slip of linear polymer melts. *S. M. Sabzevari, I. Cohen and P. Wood-Adams*	**NF25.** The effect of nanoparticle colloidal dispersions rheology on liquid transfer during gravure printing. *S. Khandavalli, J. A. Lee, M. Pasquali and J. Rothstein*	**BM20.** Modeling and simulation for effective solids handling of flexible fibers. *Y. Guo, J. S. Curtis, C. Wassgren, W. Ketterhagen and B. Hancock*
9:55			COFFEE BREAK		
10:25	**SC45.** Inertia and damping in models of jammed soft-particle suspensions. *C. E. Maloney, K. Karimi and A. Roy*	**GS22.** Impact of dispersed nanoparticulate material on the gelation of thermoreversible block copolymer solutions. *L. Walker, V. A. Cheng and M. M. Dao*	**MB45.** Analysis of helical instability in film blowing process. *I. Kwon, J. S. Lee, H. W. Jung and J. C. Hyun*	**NF26.** High-Deborah-number flows in microfluidic analogues of porous media. *F. A. Cruz and M. A. Alves*	**BM21.** Application of poly(lactic acid) stereocomplex in modification of PLA rheological properties. *S. Saeidlou, M. A. Huneault, H. Li and C. B. Park*
10:50	**SC46.** Shear induced diffusion in colloidal glasses. *N. Koumakis, J. F. Brady and G. Petekidis*	**GS23.** Formation of interconnected morphologies of symmetrical block copolymer/nanorod comoposites under cylindrical confinement: A coarse-grained molecular dynamics study. *J. H. Park and Y. L. Joo*	**MB46.** The effect of polymer rheological behavior on the morphology of co-extruded multi-layered PP/foamed PP structures. *S. Lee, J. Du, E. Baer and J. Maia*	**NF27.** Simulation of macromolecules immersed in stretching flow by dissipative particle dynamics; interpretation of response modes by proper orthogonal decomposition. *B. Caswell, M. Deng, L. Grinberg and G. E. Karniadakis*	**BM22.** Shear-induced isothermal crystallization kinetics of linear and LCB-PLA: Impact of shear and molecular structure. *N. Najafi, M.-C. Heuzey, P. Carreau and D. Therriault*
11:15	**SC47.** Slow relaxation and dynamics in soft particle glasses. *L. Mohan, M. Cloitre and R. Bonnecaze*	**GS24.** Rheological expression of clay self-exfoliation in a polymer nanocomposite. *H. H. Winter*	**MB47.** Die drool theory. *A. M. Schmalzer and A. J. Giacomin*	**NF28.** Numerical simulation of extension rate in a co-rotating twin screw mixer. *M. L. Rathod and J. L. Kokini*	**BM23.** A rheological study of the crystallization behaviour of PLA-reinforced crystalline nanocellulose bio-nanocomposites. *A. M. Arias, M.-C. Heuzey and M. A. Huneault*
11:40	**SC48.** Dispersant and thermal rheological fluid function of side-chain crystalline block co-polymer. *S. Yao, T. Okuma, S. Ichikawa and D. Tatsumi*	**GS25.** A continuum mechanical model for instability of discoidal high-density liproproteins. *M. Maleki and E. Fried*	**MB48.** On negative pressures reported in modeling of rotating polymer melt processing machinery. *J. Vlachopoulos, A. Goger and M. R. Thompson*	**NF29.** Locomotion of helical bodies in viscoelastic fluids. *S. E. Spagnolie, B. Liu and T. R. Powers*	**BM24.** Plasticized chitosan/metallocene polyethylene blends: Effect of formulation on properties. *M. Matet, M.-C. Heuzey and A. Ajji*
12:05	**SC49.** Thixotropic rheological behavior of Maya crude oil. *S. Mortazavi Manesh and J. M. Shaw*	**GS26.** Microstructural evolution of a polymer-like micellar solution during shear start-up and cessation. *C. R. Lopez-Barron, A. K. Gurnon, L. Pocar and N. J. Wagner*	**MB49.** Compressional flow accelerates interfacial reactions between nylon-6 and polyethylene-graft-maleic anhydride. *C. M. Thurber, S. Anderson and C. W. Macosko*	**NF30.** Dynamics of a bubble raft under oscillatory compression. *K. Feitosa, N. A. Hagans and C. E. O'Dea*	**BM25.** Rheological characterization of canola oil based bio-lubricants. *A. A. Elemsimit and D. Grecov*
12:30			END		

Poster Session

Wednesday 5:30 PM Salons Fontaine C-H, lower level

PO1. Interpreting LAOStrain and LAOStress from the perspective of model-based framework rheology. *R. L. Thompson and P. R. de Souza Mendes*

PO2. Numerical simulation of the non-isothermal re-start problem of waxy crude oils. *L. E. B. Sampaio, R. Sargentini and R. L. Thompson*

PO3. Kinetic theory description and advanced simulation of evolving microstructures. *F. Chinesta, E. Abisset-Chavanne and A. Ammar*

PO4. Different levels of approximation for the Reynolds stress tensor obtained from DNS of a FENE-P viscoelastic model in a drag reducing turbulent flow. *R. L. Thompson, L. Thais and G. Mompean*

PO5. Interface displacement in viscoelastic coextrusion: Numerical simulation. *B. Debbaut*

PO7. Prediction of air bubble dispersion in a viscous fluid in a twin-screw continuous mixer using FEM simulations of dispersive mixing. *J. L. Kokini and K. V. Vyakaranam,*

PO8. Modelling the jetting of dilute polymer solutions in drop-on-demand inkjet printing. *C. McIlroy, O. G. Harlen and N. F. Morrison*

PO9. CFD simulations of electrohydrodynamic jets of viscoelastic fluids. *M. A. d'Avila and N. C. Lima*

PO10. Properties of polydisperse polymer melts subject to connfinement and flow as determined by dynamic Monte Carlo simulations. *N. A. Rorrer and J. R. Dorgan*

PO11. A study on an algorithm determining discrete relaxation spectrum. *J.-E. Bae and K. S. Cho*

PO12. Stochastic motion of a pair of Brownian particles in non-adsorbing polymer solutions. *M. Karzar-Jeddi, R. Tuinier, T. Taniguchi and T.-H. Fan*

PO13. Rheology of linear and branched polylactides. *S. Nouri, C. Dubois and P. G. Lafleur*

PO15. Nonequilibrium work relations for dilute polymer solutions. *F. Latinwo and C. M. Schroeder*

PO16. SAXS/WAXS studies of flow-induced crystallization of poly(1-butene) in uniaxial extensional flow. *E. McCready and W. Burghardt*

PO17. Effect of chelating agent on the rheology and interfacial properties of ethoxylated surfactants and polymer systems used in chemical EOR. *I. A. Malik, U. A. Mubaiyedh, I. A. Hussein and A. S. Sultan*

PO18. Effect of electrolytes on interface induced disassembly of a self-assembled polyelectrolyte/surfactant nanoparticle complex. *Y. Gao, B. Liang, M. R. Chowdhury, P. Dhar and J.-T. Liang*

PO19. Effect of nanoparticle and copolymer domain geometries on the rheological properties of block copolymer nanocomposites. *L. G. Amurin, R. S. Andrade, B. D. Defendi, N. R. Demarquette and D. J. Carastan*

PO20. The importance of chemical structure in the extensional rheology of entangled linear polymers. *N. J. Alvarez, Q. Huang, L. Hengeller and O. Hassager*

PO21. Extensional rheology of entangled polystyrene solutions suggests importance of nematic interactions. *Q. Huang, N. J. Alvarez, Y. Matsumiya, H. K. Rasmussen, H. Watanabe and O. Hassager*

PO22. Uniaxial extension of entangled polymer melts and solutions at fast rates. *H. Sun and S.-Q. Wang*

PO23. Shear-induced structures and flow instabilities. *C. Perge, M. A. Fardin, N. Taberlet and S. Manneville*

PO24. Pressure-driven oscillatory flows of wormlike micellar mixtures. *L. Zhou and L. P. Cook*

PO25. Effect of carbon-based nanofillers on the rheological and electrical properties of polymer nanocomposites. *S. J. Lee, H. Y. Yeom, H. Y. Na and K. H. Ahn*

PO26. Prediction of viscosity behavior of n-alkanes under ambient and high pressure and temperature conditions. *F. M. Thakkar, I. Rudra, R. Cracknell, D. Doyle, B. De Kraker, R. S. Payal and S. Balasubramanian*

PO27. The evolving rheology of polyurethane foam during expansion. *L. A. Mondy, A. M. Grillet, N. B. Wyatt, R. R. Rao, M. M. Soehnel, B. Shelden and C. C. Roberts*

PO28. Shear rheometry characterization of healing behavior displayed by a thermoreversible physically associating polymer gel subjected to shear-induced fracture. *A. Bawiskar and K. A. Erk*

PO29. Morphological and rheological properties of immiscible polymer blends based on virgin and recycled polyethylene and polypropylene. *Y. Kazemi, A. Cloutier and D. Rodrigue*

PO30. A rheo-optical study of monodisperse H-polyisoprenes to delineate the nature of “strain hardening” in uniaxial extension.*G. Liu, K. Ntetsikas, A. Avgeropoulos and S.-Q. Wang*

PO31. Spatiotemporal structure evolution and metastable states in shear banding wormlike micelles probed using LAOS and small angle neutron scattering. *A. K. Gurnon, C. R. Lopez-Barron, L. Porcar and N. J. Wagner*

PO32. Effective blending of ultrahigh molecular weight polyethylene with high density polyethylene achieved via solid-state shear pulverization. *M. F. Diop and J. M. Torkelson*

PO33. Surface transitions of macromolecules under flow. *R. L. Jones, T. Perevozchikova and K. M. Weigandt*

PO34. Decrease in viscosity of polyisoprene solutions on addition of multi-walled carbon nanotubes. *R. Ge and J. de Bruyn*

PO35. The influence of hydrophobic interactions on the aggregation of long semi-flexible molecules with end patches. *E. M. Charry, J. E. Perilla, M. Lisal and C. M. Colina*

PO36. Start-up of steady uniaxial extension of $(ABA)_n$ multiblock copolymer systems. *A. M. Mannion, F. S. Bates and C. W. Macosko*

PO37. Control over the structure of conjugated polymers through kinetics of self-assembly. *P. de la Iglesia, G. Newbloom and D. C. Pozzo*

PO38. Break up of macroscopic multilayer polymeric films by nucleation and growth of holes induced by inhomogeneity. *V. Solouki Bonab, F. Goharpey and R. Foudazi*

PO39. Rheological properties of chitosan-based solutions for electrospraying and electrospinning processes. *N. H. Ardila, M. Arkoun, M.-C. Heuzey and A. Ajji*

PO40. Non-hydrodynamic interactions due to block-copolymer dry-brushes affecting the coalescence rate of viscous polymeric drops. *C. Vannozzi*

PO41. A bio-inspired model of mechanical energy harvesting based on flexoelectric membranes. *A. D. Rey, P. Servio and E. E. Herrera-Valencia*

PO42. Novel optical & microfluidic microrheometry techniques for biological complex fluids characterization. *P. Rolfe, S. Amin, S. Carrington, J. Duffy, H. Jankevics, R. Goswami and E. N. Lewis*

PO44. Measuring interfacial viscoelastic properties of emulsifiers and proteins. *K. E. Lilja*

PO45. Rheological control of composite hydrogels via pH tuning of mussel-inspired coordinate crosslinks. *S. C. Grindy, N. Holten-Andersen, D. G. Barrett and P. B. Messersmith*

PO46. Yield stress in globular protein solutions: Insights from rheology and small-angle scattering experiments. *M. M. Castellanos, J. A. Pathak and R. H. Colby*

PO47. Biomechanics of vitreous gel: A rheological study. *P. S. Kashani, J.-P. Hubschman and H. P. Kavehpour*

PO48. Rheological characterization of thickening agents for dysphagia management. *J. P. Eickhoff*

PO49. Hydrodynamic synchronization in rotating optical landscapes. *N. Koumakis and R. Di Leonardo*

PO50. The medium amplitude oscillatory shear (MAOS) of semi-dilute colloid dispersions - third harmonic of the suspension stress. *J. W. Swan, C. D. Cwalina, A. K. Gurnon and N. J. Wagner*

PO51. Microrheology of interfacial shells formed during liquid-liquid mixing. *S. Lindberg, M. Caggioni, R. Depuit, T. Squires and P. Spicer*

PO52. The rheology of graphene oxide vorticity banding. *M. P. Godfrin, F. Guo, I. Chakraborty, N. Heeder, A. Shukla, A. Bose, R. Hurt and A. Tripathi*

PO53. The rheology of carbon black stabilized Pickering emulsions. *M. P. Godfrin, A. Tiwari, A. Bose and A. Tripathi*

PO54. Spatial cooperativity in dense sheared suspensions. *H. de Cagny, D. Bonn and A. Fall*

PO55. Electric effects on Newtonian and viscoelastic droplets. *N. C. Lima and M. A. d'Avila*

PO56. Long flexible fiber orientation simulation in squeeze flow. *G. Meirson and A. N. Hrymak*

PO57. Motion of gas bubbles in a viscoplastic material. *A. A. Alicke, F. V. da Senhora, P. R. de Souza Mendes and J. de Bruyn*

PO58. Assessment of sedimentation stability of dispersions via multiple light scattering and rheology. *Z. Cherian, J. Fang, T. Kozel and M. Despotopoulou*

PO59. Particle pressure and normal stress differences in red blood cell and capsule suspensions. *P. Bagchi*

PO60. Interfacial rheology and microstructure of carbon nanotubes at the air-water interface. *S. Vora, B. Bognet, H. Patanwala, Y. Guo and A. Ma*

PO61. Role of inertia and dissipation mechanism on diffusion and avalanches in soft-particle suspensions. *A. Roy, K. Karimi and C. E. Maloney*

PO62. Fundamental rheological studies of cellulose nano-fibril water suspensions. *L. Jowkarderis, R. Hill and T. van de Ven*

PO63. Shear rheology of functionalized silica nanoparticle dispersions. *Y. Khaniani and J. M. Shaw*

PO64. Nonlinear microrheology of attractive colloidal dispersions. *E. W. Burkholder and R. N. Zia*

PO65. Three dimensional cluster distributions in processed multi-wall carbon nanotube composites. *M. Doyoung, J. Obrzut, J. F. Douglas, T. Lam, K. K. Koziol and K. B. Migler*

PO66. Structure and rheology of aging colloidal gels by dynamic simulation. *B. J. Landrum, W. B. Russel and R. N. Zia*

PO67. Shear-induced structure and migration of colloidal particles in concentrated polymer solutions. *V. Breedveld and E. C. Peterson*

PO68. Electrosterically-stabilized nanocrystals of cellulose: Effect of salt and pH. *G. Lenfant, P. Carreau, M.-C. Heuzey and T. van de Ven*

PO69. Natural convection of a Bingham fluid in a vertical channel. *I. Karimfazli and I. Frigaard*

PO70. Role of microstructure and manufacturing in transport properties of highly porous ceramics. *C. C. Roberts, D. A. Barringer, A. M. Grillet, L. A. Mondy, D. Ingersoll, T. Chavez and C. B. Diantonio*

PO71. Frozen-in patterns in yield stress fluid. *S. Hormozi, G. Dunbrack, A. Maleki Zamenjani and I. Frigaard*

PO72. Transport and dispersion of solid particles along a fracture. *S. Hormozi, I. Frigaard and D. Eskin*

PO73. Thixotropic-viscoelastic rheological fingerprints in strain-control and stress-control LAOS. *B. C. Blackwell and R. H. Ewoldt*

PO74. Effect of interfacial rheology on film drainage from contact lenses. *C. E. Giacomin, M. S. Bhamla and G. G. Fuller*

PO75. Developments in asphalt testing with rotational rheometers. *G. W. Kamykowski*

PO76. "Paint without priming; spackle without cracking" – a unique rheometer configuration used to study the newest in paint nanotechnology. *M. B. Quitaro and G. G. Paroline*

PO77. Tribo-rheology accessory for controlled stress rheometers. *B. Rajaram, A. Elmoumni and A. J. Franck*

PO78. Rheo-SANS and flow-SANS for simultaneous probing of rheology and flow-induced microstructure at Oak Ridge National Laboratory. *J. P. Rich and G. S. Smith*

PO79. Determination of dynamic viscoelastic functions from creep test. *M. K. Kim and K. S. Cho*

PO80. Accuracy of micro-particle image velocimetry applied to blood micro flows for velocity profile measurements. *K. L. Pitts and M. Fenech*

PO81. Improving the image quality of rheo-optical measurements. *P. Sierro, F. Soergel and J. Nijman*

PO82. Using simultaneous rheometry and FT-IR spectroscopy for studying the morphology of emulsions under shear. *K. Sugimoto, M. Feustel, F. Soergel and J. Nijman*

PO83. Investigation of flow instabilities in coaxial measuring systems using a dual motor rheometer. *P. A. Kamerkar and J. Läuger*

PO84. Effects of rheology on tribology. *F. Wolf*

PO85. Mechanical and morphological characterization tools for thin polymer membranes at fuel cell operating conditions. *B. R. Caire, M. A. Vandiver, Y. Li, D. M. Knauss, A. M. Herring and M. W. Liberatore*

PO86. New touch-screen, small-footprint, benchtop, rotational rheometers for visual, real-time, graphical monitoring of viscosity and yield tests. *D. J. Moonay*

PO87. Estimation of error and bracketing of the value of the zero-shear-rate viscosity. *M. Shaw*

PO88. Process control via in-line viscosity measurement with non-Newtonian fluids: A new innovative method. *O. Réglat*

PO89. Rheology as a tool to assess the release of alpha-lipoic acid from emulsions. *V. B. Isaac, J. D. Moraes, B. G. Chiari and M. A. Corrêa*

PO90. The sequencing of dynamic rheological measurements. *S. A. Rogers*

PO91. Rheological behavior of hydrate forming THF-water solutions. *M. Geri and G. H. McKinley*

PO92. Soap film hydrodynamics: In color & in black & white. *C. Pearsall, Y. Zhang, J. Rush and V. Sharma*

PO93. The rheological properties of the oil in diesel engines. *I. Ibarra Solis, M. D. C. Salazar Hernandez and J. C. Rodriguez Sierra*

PO94. Impact of temperature and thermal history on rheological properties of municipal digested sludge. *E. Farno, R. Parthasarathy, J. C. Baudez and N. Eshtiaghi*

PO95. Impact of increasing secondary sludge content on the rheological behaviour of blends of primary and secondary sludge. *N. Eshtiaghi, F. Markis, K. Hii, J. C. Baudez and P. Slatter*

PO96. Effect of curing pathways on rheological and mechanical properties of dual curable clearcoats for automotive applications. *S. Park, J. W. Hwang, K. N. Kim, S. M. Noh and H. W. Jung*

PO97. Coating flow dynamics of shear thinning liquids in stripe slot coating process. *W.-G. Ahn, L. Si Hyung, J. Ho Suk, N. Jaewook and J. Hyun Wook*

PO98. Rheology and stability of waterborne nanoparticle dispersions for paper coating. *P. Samyn and H. Taheri*

PO99. Extrusion of plastic scintillators with high fluorescent dopant loading. *P. Meysing, J. R. Dorgan, A. Mahl and U. Greife*

PO100. Capillary imbibition of a yield stress fluid. *C. Barentin and B. Géraud*

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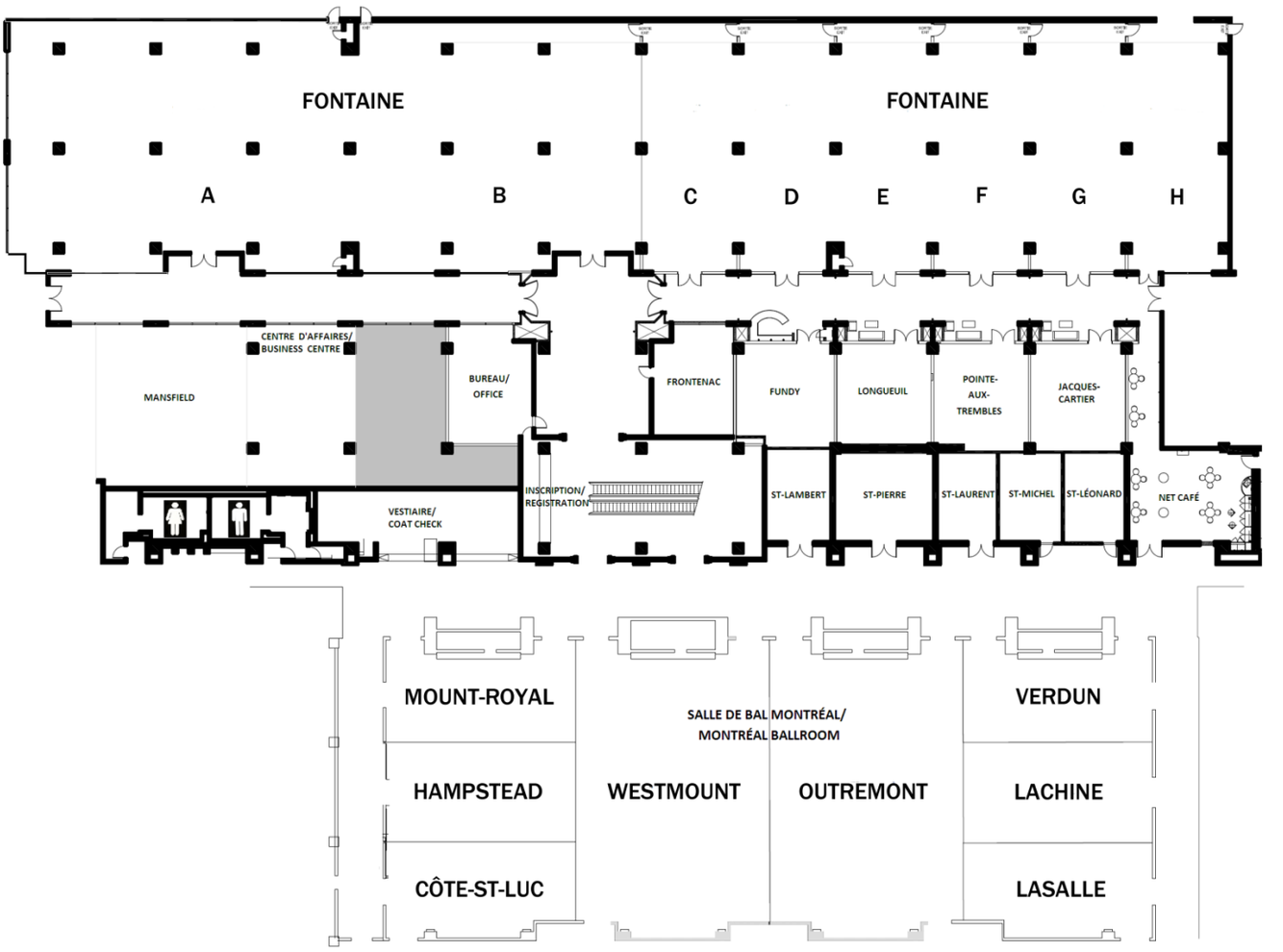

Social Program

Sunday, October 13 — **Welcoming Reception**
6:30 PM – 8:30 PM Salon Bonaventure (lobby level)
Hosted by TA Instruments

Monday, October 14 — **Industry/Faculty/Student Forum and Mixer**
Rheology in the Real World
6:00 PM – 7:30 PM Salon Lachine

Tuesday, October 15 — **Society Business Meeting**
12:05 PM Salon Westmount

Awards Reception
7:00 PM – 8:00 PM Salon Bonaventure (lobby level)
Sponsored by a generous contribution from Xpansion Instruments

Awards Banquet
8:00 PM Outremont Ballroom (lower level)

Wednesday, February 13 — **Poster Session Reception**
5:30 PM – 7:30 PM Salons Fontaine C-H (lower level)
Sponsored by a generous contribution from Anton-Paar USA
Poster competition prizes are sponsored by the Canadian Society of Rheology.

The Society gratefully acknowledges the generous support of
Anton-Paar USA, TA Instruments, Xpansion Instruments and the Canadian Society of Rheology.