

AERC 2015 - Thursday, April 16

8:15 - Plenary Lecture sponsored by Total (Auditorium 800)

Jian Ping Gong - Tough Hydrogels with Sacrificial Bonds

	Auditorium 450	Room 200	Room GH	Room KL	Room I	Room J
09:10	CS18 - F. Peters Shear-reversal in suspensions of rough frictional particles: a numerical study	MB18 - C. Dessì Analysis of dynamic mechanical response of rubbers in torsion	AT18 - T. Laurencin Real time X-ray microtomography for the 3D in situ observation of the microstructures of flowing fibre suspensions	CR8 - M. Webster On high-Weissenberg number predictions of micellar thixotropic fluids in complex contraction-expansion flow	IE8 - A. Huerre Like a rolling droplet : dynamical properties of the lubrication film in confined microchannels	FB11 - F. Caton The Sol-Gel transition of blood
09:30	CS19 - M. Souzy Mixing at low Reynolds number by shearing suspensions	MB19 - A. Sanchez-Ferrer Mechanical properties of new polyurea elastomers: Influence of the degree of polymerization and of the architecture	AT19 - E. Stellamanns Structural rheology over all length scales	CR9 - D. Matsunaga Analysis of viscoelastic properties of dense capsule suspension using boundary element method	IE9 - F. Birbaum Interfacial wall-slip and its consequences on Lissajous plots	FB12 - I. Jenkinson Data on how plankton modifies rheology and nano/microfluids for models of ocean change
09:50	CS20 - F. Blanc Fall velocity of a dense ball in cross-sheared concentrated suspensions: oscillatory and step shear flows	MB20 - M. Yrieix Long time relaxation mechanisms in rubber/silica nanocomposites with and without covering or coupling agents	AT20 - P. Filip Evaluation of applicability of an SER Universal Testing Platform	CR10 - J. Ferec Modeling rheological behaviour of dilute suspensions composed of rigid and deformable aggregates	IE10 - S. Cohen-Addad Bubble monolayers and wet foams creeping along an inclined plane	FB13 - H. Pleiner Visco-elastic dynamics of an active polar dynamic system
10:10	CS21 - M. Hermes Evidence for frictional contacts in a model shear thickening suspension	MB21 - S. Vervoort Rheology and morphology of compatibilized polypropylene/elastomer blends	AT21 - R. Hidema Development of an extensional viscosity measurement method for low viscos polymer solution with an abrupt contraction flow	CR11 - T. Croft The proper generalised decomposition for solving the full Fokker-Planck equation	IE11 - C. Liguore Perforation of of a free radially expanding liquid sheet of a dilute o/w emulsion in air	FB14 - V. Infante Effect of flow conditions on the swimming efficiency of Dunaliella Salina in microfluidic contraction devices
10:30	CS22 - Z. Pan S-shaped discontinuous shear thickening in granular suspensions	MB22 - J. Majesté A kinetic model for silica-filled rubber reinforcement	AT22 - S. Wingstrand Linear viscoelastic characterization from filament stretching rheometry	CR12 - T. Phillips The immersed boundary method for fluid structure interaction (FSI) problems with an Oldroyd-B fluid	IE12 - A. Gupta Controlling and predicting droplet size of nanoemulsions	FB15 - A. Carciati Linear viscoelasticity of human blood
10:50 - Coffee Break						
11:20	CS23 - M. Ellero Hydrodynamic shear thickening of particulate suspension under confinement	MB23 - V. Rolon-Garrido Characterization of long-chain branched and crosslinked polyethylene by rheology and size exclusion chromatography	AT23 - T. Schweizer Sign change in second normal stress difference after cessation of steady shear flow?	CR13 - T. Yamamoto Computational model for phototactic microorganism suspensions using multi particle collision dynamics	IE13 - N. Willenbacher Relating foam and interfacial rheological properties of beta-lactoglobulin solutions	FB16 - D. Flormann Rheological and sedimentation properties of aggregated red blood cell suspensions
11:40	CS24 - J. Rothstein Large Amplitude Oscillatory Shear rheology study of shear-thickening dispersions	MB24 - J. Kaschta Rheological properties of LDPE/LLDPE-blends in the molten state in shear and elongation	AT24 - M. Minale First normal stress measurements with a cross hatched geometry	CR14 - D. Pettas Linear stability analysis of viscoelastic fluid extrusion through a planar plane	IE14 - C. Loisel Rheology of whey protein foams processed by milli- and microchannels	FB17 - F. Calderas Effect of cholesterol and triglycerides levels on the rheological behavior of human blood
12:00	CS25 - J. Soundar Jerome Impacts on dense granular suspensions : liquefaction and shear-thickening-like phenomena	MB25 - M. Berta Extensional viscosity measurement by oscillatory tension and hyperbolic contraction flow	AT25 - J. Laeuger Rheological characterization of weakly structured samples: Analysis of the limits set by fluid inertia effects	CR15 - A. Vázquez-Quesada A splitting integration scheme for SPH simulation of concentrated particle suspensions	IE15 - V. Schmitt Interfacial rheology of Pickering emulsions in relation with adsorbed particle interactions	FB18 - H. Delanoe-Ayari Multicellular aggregates: a model system for tissue rheology
12:20	CS26 - G. Petekidis Residual stresses in colloidal gels	MB26 - M. Wilhelm Combined methods in Rheology: Rheo-SAXS, Rheo-NMR and Rheo-Dielectric to bridge length and time scales in polymers	AT26 - M. Fardin Flow instabilities in large amplitude oscillatory shear: a cautionary tale	CR16 - G. D'Avino Dynamics and rheology of a dilute viscoelastic suspension of spheroids in an unbounded shear flow	IE16 - Y. Mei Effect of nanoparticles at the interface on droplet dynamics in shear flow	FB19 - M. Lopez-Lopez Rheological characterization of artificial human fibrin tissues
12:40 - Lunch Break						

14:10 - Plenary Lecture sponsored by Total (Auditorium 800)

David Pine : A Microscopic View of the Yielding Transition in Concentrated Emulsions

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15:10	CS27 - M. Trulsson Athermal analogue of sheared colloidal suspensions	MB27 - H. Unidad Packing length-dependence of the transition from unentangled to entangled dynamics in polymer melts	CS47 - F. Di Lorenzo Shear elasticity of heterogeneous packings of colloidal and granular microgels	CM11 - G. Abade Active microrheology in a colloidal glass	SG11 - M. Wagner From melt to solution: scaling relations for concentrated polystyrene solutions	SI8 - P. Bohr Oscillatory instability and secondary flows of viscoelastic fluids in curvilinear channels
15:30	CS28 - R. Bonnecaze An equation of state for excess entropy to correlate the dynamic viscosity, normal stresses and diffusivity of colloidal glasses	MB28 - Y. Matsumiya Viscoelastic relaxation of Rouse chains undergoing head-to-head association and dissociation: motional coupling through chemical equilibrium	CS48 - A. Izzet Non-local rheology for confined granular flow avalanches	CM12 - R. Matos Microchannel contraction flow instabilities of surfactant solutions	SG12 - F. Bossard Influence of rheological parameters of polymer solutions on electrospinning process	SI9 - A. Colin Elastic instability in straight channels
15:50	CS29 - R. Matas Navarro Lennard-Jones squirmer suspensions in 2D	MB29 - G. Baeza Melting behavior in industrial thermoplastic elastomers: supramolecular assemblies of T4T-pTHF multiblock copolymers	CS49 - G. De Monaco Dense granular flow in rotating cylinders	CM13 - O. Harlen Jetting and jet break-up of complex fluids in inkjet printing	SG13 - R. Fournier New associative polymers by molecular recognition	SI10 - W. Abed The effect of elastic turbulence on heat transfer in a square serpentine channel
16:10	CS30 - M. Youssry Organic suspensions of carbon nanofibers for redox flow battery applications: simultaneous rheo-electrical behavior	MB30 - H. Goldansaz Equilibrium dynamics of entangled supramolecular polymers based of poly (n butyl acrylate)	CS50 - P. Lidon Unjamming of a granular packing under high-intensity focused ultrasound	CM14 - H. Eral Governing principles of alginate hydrogel synthesis with centrifugal forces: an alternative method to microfluidic synthesis	SG14 - P. Lettinga Direct visualization of flow-induced conformational transitions of single actin filaments in entangled solutions	SI11 - M. Fardin Inertio-elastic scaling
16:30 - Coffee Break						
17:00	CS31 - J. Fusier Rheology of well-controlled model flocculated suspensions	MB31 - F. Snijkers A rheological study of vitrimers	CS51 - T. Gibaud Fatigue dynamics of a colloidal gel under Large Amplitude Oscillation Stress	CM15 - P. Tabeling Dynamical role of slip heterogeneities in confined flows	SG15 - C. Chassenieux Structure and rheological behavior of polymeric worm-like micelles based on self-assembled amphiphilic comb-like copolymers	SI12 - L. Casanellas Elastic turbulence in the flow of wormlike micellar solutions
17:20	CS32 - O. Philippova Smart fluids containing wormlike micelles of surfactant and magnetite particles	MB32 - L. Hawke On the dynamics of entangled, linear associative polymers in the melt state	CS52 - E. Lintingre Drying of colloidal suspensions: Yield stress prevents buckling	CM16 - B. Renner Stretching self-entangled DNA molecules in elongational fields	SG16 - M. Calabrese The effect of branching on the shear rheology and microstructure of wormlike micelles (WLMs)	SI13 - H. Wilson Linear instability of highly shear-thinning fluids in channel flow
17:40	CS33 - M. Fourmentin Structure evolution of a cement paste from rheometry and NMR measurements	MB33 - A. Shabbir Uniaxial extensional rheology of Polyether ester-sulfonate Ionomers	CS53 - T. Divoux Wall slip in suspensions of thermo-responsive particles	CM17 - P. Moldenaers Understanding the effects of geometrical confinement and viscosity ratio on the coalescence of droplet pairs in shear flow	SG17 - D. Gaudino A macroscopic and microscopic investigation on the structures and the dynamics of linear and branched wormlike micelles	SI14 - R. Kádár Transition sequences of supercritical polymer melt straight and curved streamlines channel extrusion flows in a high sensitivity mechanical pressure system
18:00	CS34 - R. Haldenwang The effect of different cements and superplasticisers on the yield stress during early hydration	MB34 - V. Boudara Simplified tube models for entangled supramolecular polymers	CS54 - M. Maillard Scrape coating of pastes: force and flow characteristics	CM18 - A. Machado Elastic instabilities of polymer solution in model of porous media	SG18 - A. Saint-Jalmes Yielding and flow of solutions of thermoresponsive surfactant tubes: tuning macroscopic rheology by supramolecular self-assemblies	SI15 - N. El Kissi New insight of interfacial stability during axisymmetric coextrusion
18:20 - End						
20:30 - Banquet sponsored by TA Instruments						