

| Sunday, June 23, 2019 | |
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| 20:00-21:00 | Registration at "Doryssa Seaside Resort" |
| 20:30-22:30 | Welcome Reception at "Doryssa Seaside Resort" |

| Monday, June 24, 2019 | |
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| 07:45-08:30 | Registration |
| 08:00-08:10 | Opening |
| 08:10-08:50 | G. Fuller , E.J. Mossige, V. Suja <i>Evaporation-induced stabilization/destabilization</i> |
| 08:50-09:10 | R.I. Tanner , S. Dai <i>Edge fracture in non-colloidal suspensions</i> |
| 09:10-09:30 | A. Maheshwari, C. Aponte-Rivera, E. Gonzalez, A. Sunol, D. Endy, R. Zia <i>The colloidal hydrodynamics and rheology of the cell</i> |
| 09:30-09:50 | Coffee break |
| 09:50-10:10 | G.J. Elfring <i>Active particles in complex fluids</i> |
| 10:10-10:30 | E. Amah, N. Musunuri, M. Hossain, I. Fischer, P. Singh <i>Numerical simulations of electric field driven hierarchical self-assembly of monolayers of mixtures of particles</i> |
| 10:30-10:50 | A. Papadopoulou , M.K. Tiwari, S. Balabani <i>Rheology and microstructure of non-aqueous silica particle suspensions</i> |
| 10:50-11:20 | Coffee break |
| 11:20-11:40 | E. Chatzigiannakis, A. Alicke, J. Vermant <i>Dynamics of thin liquid films: Implications for beer foam stability</i> |
| 11:40-12:00 | Y.H. Huang, A. Kamble, F. Salmon, M. Michelon, B.C. Leopercio, M.S. Carvalho, J.M. Frostad <i>Direct measurement of the dynamic modulus of micro-capsules</i> |
| 12:00-12:20 | E. Vereroudakis, A. Louhichi, D. Vlassopoulos <i>Rheology sensitively probes water-mediated changes of supramolecular structure</i> |
| 12:20-12:40 | T. Tomkovic, N. Kuanr, L.L. Schafer, S.G. Hatzikiriakos <i>Rheological properties of amine functionalized polynorbornenes</i> |
| 12:40-13:00 | J. Vlachopoulos , N.D. Polychronopoulos <i>Moffatt eddies in single screw extrusion</i> |
| 13:00 | End of morning sessions |
| 18:00-18:20 | N. Cagney, S. Balabani <i>Dynamics of Taylor-Couette flow of shear-thinning fluids</i> |
| 18:20-18:40 | A. Katsavria, V. Bontozoglou <i>Stability of film flow with high loadings of soluble surfactant: The effect of surface compressibility</i> |
| 18:40-19:00 | V. Mitsoulas, K. Giannokostas, Y. Dimakopoulos , J. Tsamopoulos <i>Investigation of the scaling of the endothelial surface layer permeability of microvessels through multiscale modeling and simulations</i> |
| 19:00-19:20 | A.N. Spyropoulos, A.G. Papathanasiou, A.G. Boudouvis <i>2-3-4 spikes competition in the normal field instability of ferrofluids</i> |
| 19:20-19:40 | S. Varchanis , A. Syrakos, P. Moschopoulos, Y. Dimakopoulos, J. Tsamopoulos <i>3-Dimensional flows of non-Newtonian fluids with free surfaces</i> |
| 19:40 | End of evening sessions |
| 20:00-23:30 | Dinner at "Elia" restaurant in Pythagorion |

Leal symposium - A

General session - A

| Tuesday, June 25, 2019 | | |
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| Leal symposium - B | 08:10-08:50 | J. Peterson, C. Sasmal, L. Gary Leal <i>The dynamics of bimodal polymer blends in a contraction-expansion slit device</i> |
| | 08:50-09:10 | M. Doi <i>Application of Onsager Machlup integral in solving evolution equations in non-equilibrium systems</i> |
| | 09:10-09:30 | P.M. Mwasame, A.N. Beris, R.B. Diemer, S. Jariwala, N.J. Wagner <i>A constitutive equation for thixotropic suspensions with yield stress by coarse-graining a population balance model & experimental validation</i> |
| | 09:30-09:50 | <i>Coffee break</i> |
| | 09:50-10:10 | E.S.G. Shaqfeh , A. Jain, J. Einarsson, N. Alvarez, Z. Hinton <i>A study of the effective extensional viscosity in a particle laden viscoelastic solution</i> |
| | 10:10-10:30 | G. D'Avino, P.L. Maffettone <i>Dynamics of particle pair in a viscoelastic fluid under pressure driven flows: Clues for particle ordering in microfluidics</i> |
| | 10:30-10:50 | M. Vlachomitrou, N. Pelekasis <i>A numerical study for the compression only effect of contrast agents</i> |
| | 10:50-11:10 | E. Antonopoulou , O. Harlen, M. Walkley, N. Kapur <i>Drop-on-demand inkjet printing of surfactant solutions</i> |
| | 11:10-11:40 | <i>Coffee break</i> |
| | 11:40-12:00 | M.A. Hulsen, M.A. Carrozza, M. Hütter, P.D. Anderson <i>Using the contravariant deformation tensor formulation in simulation of viscoelastic fluid flow</i> |
| | 12:00-12:20 | L. Zhou, L.P. Cook <i>Mesoscale modeling of networked fluids</i> |
| | 12:20-12:40 | J. Gillissen , Helen Wilson, Christopher Ness, Joseph Peterson, Michael Cates <i>A tensor model for shear thickening suspensions of spherical particles</i> |
| | 12:40-13:00 | R.R. Huilgol <i>A particle distribution function approach to the equations of continuum mechanics in Cartesian, cylindrical and spherical coordinates: Newtonian and non-Newtonian fluids</i> |
| 13:00 | End of morning sessions | |
| General session - B | 17:45-18:05 | P. Edera, P. McCall, M. Gardel, V. Trappe, F. Giavazzi, R. Cerbino <i>Tracking-free one- and two-point microrheology of soft materials</i> |
| | 18:05-18:25 | A. Passos, J.M. Sherwood, E. Kaliviotis, S. Balabani <i>Microscale flows of hardened red blood cell suspensions</i> |
| | 18:25-18:45 | K. Kapnisis, H. Seidner, M. Prokopi, D. Pasias, C. Pitsillides, A. Anayiotos, E. Kaliviotis <i>Blood rheology and flow geometry effects</i> |
| | 18:45-19:05 | D.G. Tsalikis , A.J. Tsamopoulos, A. Katsarou, V.G. Mavrantzas <i>Steady shear flow of marginally entangled ring polymer melts through nonequilibrium molecular dynamics simulations</i> |
| | 19:05-19:25 | V. Harmandaris, P. Bačová , A.N. Rissanou <i>Multi-scale dynamic simulations of polymer nanocomposites with inorganic or polymer-based nanoparticles</i> |
| 19:25-20:00 | Poster session | |
| 20:00 | End of evening sessions | |
| 20:10-23:30 | Conference dinner at "Aphrodite Garden Restaurant" in Pythagorion | |

| Wednesday, June 26, 2019 | | |
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| Alexandrou memorial symposium | 08:10-08:50 | M. Modigell <i>Professor A.N. Alexandrou's contributions to rheology and semisolid material processing</i> |
| | 08:50-09:10 | R.R. Huilgol , A.N. Alexandrou, G.C. Georgiou <i>Start-up plane Poiseuille flow of a Bingham fluid</i> |
| | 09:10-09:30 | G.C. Florides , A.N. Alexandrou, M. Modigell, G.C. Georgiou <i>Squeeze flow of thixotropic semisolid slurries</i> |
| | 09:30-09:50 | <i>Coffee break</i> |
| | 09:50-10:10 | J.S. Horner, A.N. Beris , N.J. Wagner <i>Experimental and theoretical investigations of human and animal blood rheology</i> |
| | 10:10-10:30 | P.S. Stephanou , I.Ch. Tsimouri, G.C. Georgiou, V.G. Mavrantzas <i>Understanding the rheological behaviour of blood from a non-equilibrium thermodynamics perspective</i> |
| | 10:30-10:50 | L. Gury, D. Parisi, M. Cloitre, D. Vlassopoulos <i>Comparative rheological study of dense microgel and star polymer suspensions</i> |
| | 10:50-11:10 | T. Tomkovic, S.G. Hatzikiriakos <i>Rheology of poly(ethylene-co-methacrylic acid) ionomers</i> |
| | 11:10-11:30 | E. Mitsoulis , A. Neunhäuserer, S. Stieger, W. Friesenbichler <i>Capillary flow behavior of a rubber compound</i> |
| | 11:30-12:00 | <i>Coffee break</i> |
| General session - C | 12:00-12:20 | D.E.V. Andrade , P. Coussot <i>The solid-liquid transition of brittle solids: Waxy oil study</i> |
| | 12:20-12:40 | S. Migliozzi , P. Angeli, L. Mazzei <i>A rheological study of the gelation kinetics of non-aqueous carbopol dispersion</i> |
| | 12:40-13:00 | A. Syrakos , Y. Dimakopoulos, J. Tsamopoulos <i>Lid-driven elastoviscoplastic flow in a cavity</i> |
| | 13:00-13:20 | L. Böni, K. Rementzi, Dimitris Vlassopoulos, P. Fischer <i>Slime for defense – biophysical design principles in a marine environment</i> |
| | 13:20 | End of morning sessions |
| | 13:30-18:00 | Visit to the Wine Museum in Vathi and excursion/lunch to Mitilini |

| Thursday, June 27, 2019 | | |
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| General session - D | 08:10-08:50 | M.E. Helgeson <i>Toward "Damascus yogurt": using phase separation to understand and control the rheology of colloidal gels</i> |
| | 08:50-09:10 | E. Moghimi, J. Vermant, G. Petekidis <i>Probing the internal dynamics of model colloidal glasses under shear by orthogonal superposition rheometry</i> |
| | 09:10-09:30 | R. Bitton <i>Tuning the mechanical properties of alginate-peptide hydrogels</i> |
| | 09:30-09:50 | <i>Coffee break</i> |
| | 09:50-10:10 | Q. Huang , O. Hassager, J. Ahn, T. Chang, D. Vlassopoulos <i>Extensional rheology of ring polystyrene melt and linear/ring polystyrene blends</i> |
| | 10:10-10:30 | D. Ashkenazi , M. Gottlieb <i>Interfacial viscoelasticity - the effect of polymer chain flexibility and hydrophobicity</i> |
| | 10:30-10:50 | C.O. Klein , R. Figuli, D.Z. Gunes, J. Ray, O. Schafer, M. Wilhelm <i>Fat crystallization and solidification as observed by novel combined rheological methods</i> |
| | 10:50-11:10 | S.J. Gstöhl , C.M. Schlepütz, J. Wemmer, J. Läger, M. Stampanoni, P. Fischer, E.J. Windhab <i>Full spatio-temporal elucidation of sheared multiphase materials</i> |
| | 11:10-11:40 | <i>Coffee break</i> |
| | 11:40-12:00 | C.S. Valentine, L.M. Walker <i>Probing the nanoscale structure of block copolymer micelle liquid crystals using rheology and mechanical behavior</i> |
| | 12:00-12:20 | A. Jabbarzadeh <i>Effect of additives shape and size on crystallization of polymeric systems</i> |
| | 12:20-12:40 | S. Costanzo , L. Scherz, G. Floudas, R. Pasquino, M. Kröger, A.D. Schlüter, D. Vlassopoulos <i>Hybrid dendronized polymers as molecular objects: viscoelastic properties in the melt</i> |
| | 12:40-13:00 | T. Athanasiou , D. Vlassopoulos, G. Petekidis <i>High-frequency rheometry of polymeric systems</i> |
| | 13:00-13:20 | E. Chatziannakis , J. Vermant <i>Drainage dynamics of thin polymer-solution films</i> |
| | 13:20-13:30 | <i>Closure</i> |
| | 13:30 – 15:00 | <i>Lunch at "Doryssa Seaside Resort"</i> |
| 15:00 | <i>End of HSR-2019 conference</i> | |

| Poster Session | |
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| Tuesday, June 27, 2019: 19:25-20:00 | |
| S. Alexandris , D. Vlassopoulos | <i>Shear rheology of marginally entangled polystyrene</i> |
| F. Boudjema , Z. Aliche, B. Khelidj, M. Lounis, O. Sokona, F. Khoualdia | <i>Experimental and rheological study of prepared bioformulations</i> |
| P. Chatzakis, M. Das, D.G. Papazoglou, G. Petekidis | <i>A multimodal light scattering and imaging device for rheological applications</i> |
| Y. Damianou , P. Panaseti, C. Xenophontos, G.C. Georgiou | <i>Viscoplastic Couette flow in the presence of wall slip with non-zero slip yield stress</i> |
| L. Fusi , A. Farina | <i>Flow of inhomogeneous Bingham fluids</i> |
| S.D. Gkormpatsis* , E.A. Gryparis, K.D. Housiadas, A.N. Beris | <i>Steady sphere translation in a viscoelastic fluid with Navier slip on the sphere</i> |
| E.A. Gryparis* , S.D. Gkormpatsis, K.D. Housiadas, R.I. Tanner | <i>Viscoelastic planar elongational flow past an infinitely long cylinder</i> |
| K.D. Housiadas | <i>The sedimentation of a sphere in a viscoelastic fluid under constant rotation</i> |
| P. Moschopoulos* , K. Psaraki, A. Syrakos, Y. Dimakopoulos, J. Tsamopoulos | <i>The dynamic response of elastoviscoplastic fluids under extension</i> |
| P. Panaseti, G.C. Georgiou , I. Ioannou | <i>Flow of a Herschel-Bulkley fluid with pressure-dependent rheological parameters in an asymmetric channel</i> |
| K. Sverdrup* , A. Almgren, N. Nikiforakis | <i>Simulating unsteady flow of viscoplastic fluids in three dimensions with embedded boundaries</i> |
| A. Tsiantis, T.D. Papathanasiou | <i>Quantitative relationships between the aggregation state and the permeability of fibrous systems</i> |
| D. Zablotsky | <i>Shear banding in magnetic colloids studied by LAOS and numerical simulations</i> |

* Eligible for the best student poster award