

Friday April 9

| Lecture Hall | Runan | Palmstedtsalen | Scaniasalen | Catella | Valdemar | GD | VH |
|---|---|---|---|---|---|--|---|
| Symposium | Polymer melts and solutions | Complex fluids | Rheometry | Interfacial | Rheology of solids | Modelling/Simulation and Computational | Dispersion rheology |
| 9:00-9:20 | Natalie Germann Rheological and microstructural properties of an extended White-Metzner fluid in eccentric annular flow | F.I. Roschztardt Complex rheo-thermal behaviour and universality of multiblocks copolymers | Keynote Lecture Helmut Münstedt | Inbal Preker PEO-PDMS block copolymers at isoctane/water interface – interfacial activity and dilatational rheology | Ulrich A. Handge Thermal and viscoelastic properties of polyamide 6/halloysite nanocomposites | João Maia Direct simulation of micro- and nano-fibre composites in shear and extensional flows | PFG Banfill Rheology of carbon fibre-reinforced cement pastes |
| 9:20-9:40 | Chen-Yang Liu Prob rheology: a simple method to test chain dynamics | Katarzyna Niedzwiedz Determination of yield stress from capillary breakup elongation rheometry (CaBER) | Creep-recovery experiments as a powerful tool to investigate molecular processes in polymer melts | Lazhar Benayhia A dancing droplet: experiments and a model of a Newtonian droplet undergoing large amplitude oscillatory shear flow in another immiscible Newtonian matrix | Didier R. Long Unique plastic and recovery behaviour of nano-filled elastomers and thermoplastic Elastomers (payne and mullins effects) | Tommi Borg Practical linear viscoelastic models by control theory | Florian J. Stadler Gelation of dilute suspensions of spherical and rod-like zinc oxide nanoparticles by dye absorption – a novel route to gelation |
| 9:40-10:00 | Salvatore Coppola Viscoelasticity of elastomers from uncured to cured state: effects of polymer structure | Joerg Laeuger Differences between stress and strain control in the non-linear behaviour of complex fluids | Anne Ladegaard Skov Reversible planar elongation of soft polymeric networks | Reza Foudazi Rheology of highly concentrated water-in-oil explosive emulsions | P. Martinoty Mechanical properties of uniaxial magnetic gels | Ian Frigaard Stable multilayer flows with yield stress fluids: entry effects and stability | Jung Gun Nam Strain stiffening of non-colloidal hard sphere suspensions dispersed in Newtonian fluid near liquid-crystal coexistence region |
| Microrheology | | | | | | | |
| 10:10-10:30 | Bernadette Duscher The time-concentration superposition of carbon dioxide plasticized polymer melts | Keynote Lecture Luca Cipelletti | Christian Wagner Is there a relationship between the elongational viscosity and the first normal stress difference in polymer solutions? | N Huang Rheological studies on the bulk and at the interface of a pickering oil/water emulsion | L. Grassia On the viscoelastic poisson's ratio in amorphous polymers | Christian Bailly A proposal to solve the time-modulus discrepancy of tube models for linear entangled polymers | Alain Ponton Structural and rheophysical investigation of magneto-sensitive biopolymeric materials |
| 10:30-10:50 | João Maia An experimental study on the criteria for failure of polymer melts in uniaxial extension: the test case of a polyisobutylene melt in different deformation regimes | Anomalous dynamics in jammed soft matter and its implication for microrheology | Kaijia Yu Extension of cylindrical samples in the Sentmanat extensional rheometer (SER) | Philipp Erni Length time and force scales in emulsions for flavor and fragrance delivery systems | Markus Hütter Thermodynamics perspective on dislocation dynamics | Gaetano D'Avino Experimental and numerical study of migration of a sphere in Couette flow induced by viscoelastic stresses | Pierre J. Carreau Rheology, morphology and microstructure development of PC/MWCNT suspensions |
| 10:50-11:20 | Coffee Break | | | | | | |
| Polymer melts and solution + Complex Flows | | | | | | | |
| 11:20-11:40 | Wilhelm Manfred Establishing a new nonlinear mechanical parameter Q from FT-Rheology: first investigation on entangled linear and comb polymer model systems | Claude Oelschlaeger Effect of counterion binding efficiency on structure and dynamics of wormlike micelles | Teodor I. Burghilea The role of homogeneity in measurements of the transient elongational viscosity of polymer melts: stressing versus creep | Keynote Lecture Nikolai Denkov | Toshio Tada Non-linear stress relaxation behavior of carbon black filled rubber vulcanizates under various types of deformation | Chien-Cheng Huang Semidilute polymer solutions under shear flow | Mark Haw Jamming, unjamming, lubrication and dilation in concentrated colloidal dispersions |
| 11:40-12:00 | Henrik K. Rasmussen Does the interchain pressure effect exist in flow of polymer melts? | Andreas Schneider Direct measurement of shear-induced cross correlation of Brownian motion | Zden Stary On the "viscosity overshoot" during the uniaxial extension of a low density polyethylene | Viscous friction in sheared foams and emulsions | Noëlle Billon Thermomechanical constitutive modelling for semi crystalline polymers at a meso scale. | C.Tzoumanekas Tube segment survival probability from computer generated trajectories: onset of tube confinement | Jean Charles Majeste Concentration dependence of the non linear viscoelastic properties of polymer-grafted particles in polymer melt |
| 12:00-12:20 | Vitor C. Barroso Non-linear rheological properties of long-chain branched polyethylenes | Catalin Mihai Balan influence of elasticity on the vortical structures formed in micro-channels geometries | Martin Rides Measurement of the extensional flow behaviour of fluids using a modified rotational rheometer | Gerald Fuller Particle removal: turning liquids into soft adhesives | Cornelia Grabsch New approach for the application of rheological models for the interpretation of viscoelastic substances | T N Phillips Mathematical and computational models for compressible viscoelastic flows | Pasquino Rossana Shear induced ordering of spheres in a wormlike micellar solution |
| 12:20-12:40 | Stella Poyiadji Incompressible poiseuille flows of newtonian liquids with a pressure-dependent viscosity | Manlio Tassieri Measuring storage and loss moduli using optical tweezers: broadband microrheology | Suraj Deshmukh High throughput rheology | Gerald Fuller Interfacial rheology of the Tear film | H. Pleiner Director dynamics in nematic single-crystal elastomers | Olivier Botella Recent progress on the LS-STAG immersed boundary method for the computation of viscoelastic and pseudoplastic liquids | Kostas D. Housiadas A differential model for the rheological properties of concentrated suspensions with weakly viscoelastic matrices |
| 12:40-13:40 | Lunch | | | | | | |
| 13:40-14:00 | Jerome Claracq Melt processability of self-assembly materials | Nahn Ju Kim Dynamics of aqueous polymer solutions under combined electric and flow field in microchannel | Robert Vogt Experimental approach to determine high frequency rheological properties of polyethylene | Angelo Pommella Deformation of surfactant vesicles in shear flow | A. Blaise Characterization of the micro-mesostructure of HDPE under uniaxial tensile test by X-ray microtomography, incoherent polarized steady-light transport and small-angle X-ray scattering | R J Poole Purely-elastic instabilities in lid-driven cavities | Innocent Boudimbou In-situ characterisation of elementary dispersion mechanisms of silica granules in a polymer matrix under the action of shear |
| 14:00-14:20 | Jaroslav Strnadel Drag coefficient of solid spheres falling through viscoelastic shear thinning fluids | Pier Luca Maffettone Simulation of particle migration in tube flow in a viscoelastic fluid | Seung Jae Baik Normal stresses of complex fluids in thin film rheology | Mitropoulos Varvara Tailoring protein covered interfaces | D. Rogez Shear mechanical anisotropy of uniaxial nematic side-chain liquid-crystalline elastomers with planar and homeotropic alignments | A.M. Afonso Numerical studies of electro-osmotic flows of viscoelastic fluids | Guillaume Ovarlez Three-dimensional flows of yield stress fluids |
| 14:20-14:40 | Fatemeh Goharpey Rheology and morphology of dynamically asymmetric LCST blends: polystyrene/poly (Vinyl methyl ether) | Oliveira Mónica Elastic-driven instabilities in microfluidic flow-focusing devices | Thomas Schweizer How reliable is N2 of a polymer melt determined with a cone-partitioned plate rheometer? | Pierre Carreau Relationships between rheology and morphology in thermoplastic olefin (TPO) blends | Richard Holm Efficient pumping in waste streams | Hossein Nazockdast Viscoelastic based modeling of extrudate swell of acrylonitrile-butadiene-styrene/clay nanocomposite | Patrick Ilg Chaining versus gelation in dipolar colloids and their influence on structure and dynamics |
| 14:45-15:00 | Closing of the conference in lecture hall Runan | | | | | | |