

Thursday April 8

From 8:00	Registration						
9:00-9:40	How big are polymers? The span dimension as a measure of polymer size Plenary lecture by Ole Hassager in Runan						
9:40-9:50	Presentation of AERC 2011						
Lecture Hall	Runan	Palmstedtsalen	Scaniaalen	Catella	Valdemar	GD	VH
Symposium	Modelling/Simulation and Computational	Food and bio-rheology	Applied Rheology	Complex Flows	Dispersion rheology	Polymer melts and solutions	Ultrasonic techniques - ISUD7
10:00-10:20	Chair: Henrik Rasmussen Keynote Lecture Oliver Harlen	Chair: David Weitz Keynote Lecture Peter Fischer	Chair: Jan Engmann A.C. Muji High Frequency Rheology and Processing of Ink-Jet Fluids	Chair: Paula Moldenaers Seyed Mohammad Taghavi Displacement flows in conduits: pseudo-stationary residual layers without a yield stress	Chair: Michel Cloitre François Boyer Normal stresses and particle migration in concentrated granular suspensions	Chair: Frederic Bossard Marco Dressler Microstructural modeling of viscoelastic polybutadiene/montmorillonite clay-nanocomposites	Chair: Sebastian Maneville Keynote Lecture Mathias Fink
10:20-10:40	Jet break-up of polymer solutions in inkjet printing	Improved rheological properties of biopolymers through innovations in raw material processing	Milan Krcalik Elongational and shear flow in polymer-clay nanocomposites measured by on-line extensional and off-line shear rheometry	Tobias Himmel The use of thermoplastic elastomers as novel processing aids in extrusion of polyethylene	A.M. Philippe Organisation of disk like particles under flow : Rheo-SAXS investigation	Horst H. Winter Rheology of entropically driven exfoliation of clay in a colloidal gel	Multi-wave Imaging : A solution to image rheological properties of soft tissues
10:40-11:00	Young Joon Choi Simulations of two-particle interactions in shear flow of a viscoelastic fluid using the extended finite element method	Birgitta Schiedt Rheological properties of wheat dough and corresponding model systems	Giovanna Iannuzzi Generation of flow marks – possible relations to the rheological properties of polypropylene melts	Mario Minale The use of rheology to investigate flow through a porous layer	Frederic Blanc Measurement of the shear velocity profile's build up in a concentrated suspension.	Henrik Persson Melt rheology as a tool to evaluate dispersion of expanded graphite in PS	Philippe Schmitt Suspended particles in wastewater: acoustical characterization and modeling
11:00-11:20	Coffee Break						
11:20-11:40	Chair: Henrik Rasmussen Monirosadat Sadati Reconstruction of smooth velocity and velocity gradient fields from velocity data obtained in a complex flow situation	Chair: David Weitz Bettina Wolf Viscosity reduction in low-fat chocolate based on a polymeric surfactant	Chair: Jan Engmann Keynote Lecture Norbert Willenbacher	Chair: Paula Moldenaers Blaise Nsom Slope effect on core-annular flow	Chair: Michel Cloitre Talib Dbouk Normal stresses in sheared non-brownian suspensions	Chair: Frederic Bossard S. J. Lee Rheological behavior of polystyrene/multi-walled carbon nanotube nanocomposites using latex technology	Chair: Erich Windheib Samsun Nahar Steady and unsteady flow characteristics of a shear thinning fluid through a collapsed elastic tube
11:40-12:00	Grigory Pyshnograd The statistical mechanics of suspension nonlinear dumbbells and modelling of process of polymeric films casting on its basis	Malcolm Mackley The rheology of swallowing	Capillary breakup elongational rheometry (CaBER) beyond the cylindrical filament case	Valery Kulichikhin Rheo-X-ray study of polymer nanocomposites in conditions of strong shear flow	Jan Vermant Surface flows of 2D colloidal aggregates and aggregate networks.	Joung Sook Hong Dispersion of multi-walled carbon nanotube in PB/PDMS blend	Reinhardt Kotze Measurement and Analysis of Flow Behaviour in Complex Geometries using Ultrasonic Velocity Profiling (UVP) Technique
12:00-12:20	Anthony Wachs A massively parallel DEM-DLM/DFD method for DNS of granular and particulate flows and its application in rheology	Heidi Nielsen The missing link – sensory and rheology study of low fat stirred yoghurt.	Ute Keßner Thermorheology as a very sensitive method to analyse molecular structures	Ahmed Allal How does adhesion control the flow conditions in extrusion	R.I.Tanner Suspension mechanics for spheres and oblate spheroids	Mohammad Ranjbaran A comparative experimental study of relationship between rheological and mechanical properties of extrudate two-layer polymer melts	Erica Camnasio Flow field and sediment deposition in a rectangular shallow reservoir with non symmetric inlet and outlet configuration
12:20-12:40			Peter Van Puyvelde Effect of particles on the flow-induced crystallization of polypropylene at processing speeds			Yumi Matsumiya Viscoelastic and dielectric investigation of segmental dynamics of polystyrene	
12:40-13:00	Lunch						
	Dispersion Rheology			Food and bio-rheology			
13:40-14:00	Chair: Martien Hulsen Sérgio Frey Numerical simulations of inertia flows of yield-stress fluids via multi-field GLS-type methods	Chair: Dimitris Vlassopoulos Keynote Lecture Olivier Pouliquen	Chair: Susana Filipe Mathias Krebs Experimental investigation and phenomenological rheology of single and two-phase polypropylene melt	Chair: Jean-Francois Tanin Claire Rigal Experimental study of Newtonian and non-Newtonian fluids in centered and eccentric cylinders flows	Chair: Bettina Wolf Andreja Zupancic Valant The influence of volume expanders on the rheological properties and the flow of blood in arteries	Chair: Vitor Barros Frédéric Bossard Rheological investigation of polymer scission and aggregation induced by the dispersion in high molecular weight PEO solutions	Chair: Beat Birkhofer De Cesare River intake and desander efficiency testing on a physical model using UVP and LSPIV
14:00-14:20	M.F. Webster A study on Bautista-manero models for worm-like micellar systems	Rheology of granular pastes	Kalman Geiger A new heuristic flow Law	Paula Moldenaers Deformation and break-up of droplets in controlled mixed flows	Gerrit.W.M. Peters Does subcutaneous adipose tissue behave as an (anti-)thixotropic material?	Victor Hugo Rolón Garrido The interchain pressure effect in shear rheology	Josef Pal Experimental investigation on the fluid flow driven by an off-axis oriented travelling magnetic field
14:20-14:40	Alexander Morozov Purely elastic and inerti-elastic instabilities in shear layers	Alexandre Pierre Spreading flow of calcium sulfate suspensions: influence of chemical admixtures	Helia Sojoudi Asli Rheologically determined phase separation of PVME aqueous solution, influence of spherical nanoparticles	Nagamani Koganti Rheological behavior of starch-N-methyl morpholine N-oxide solutions	P. C. Sousa Extensional flow of blood analogue solutions	Chr. Friedrich Thermo-rheological behavior of hyperbranched polyether polyols: role of molecular weight and stickiness	Sven Eckert Investigations of the bulk flow inside a cylindrical liquid metal column generated by diverse AC magnetic fields
14:40-15:00	Coffee Break						
	Rheology of solids		Complex fluids		Applied Rheology		
15:00-15:20	Chair: Henrik Rasmussen Patrick Ilg Towards constitutive models by systematic coarse-graining the microscopic, non-equilibrium dynamics of polymer melts	Chair: Dimitris Vlassopoulos Genta Rexha Numerical predictions of the order two batchelor's coefficient for the dynamic and complex viscosity of a non brownian suspension	Chair: Igor Emri Keynote Lecture Hongbing Lu, Masayuki Nakada	Chair: Veruscha Fester Anton Santamaria Analysis of liquid crystalline behaviour as a route to discover molecular arrangement of inorganic copolymers	Chair: Crispulo Gallegos Christian Clasen Dispensing of complex fluids – the influence of the rheological properties	Chair: Valery Kulichikhin Hiroshi Watanabe Rheo-dielectric behavior of cis-polyisoprene under steady shear and LAOS	Andreas Cramer Application of the Ultrasound Doppler Velocimetry in a Czochralski crystal growth model experiment
15:20-15:40	Azadeh Jafari Simulation of flows of viscoelastic fluids at high Weissenberg number using a filter-based stabilization of the spectral element method	Rut Besseling Flow dynamics on the particle level in dense suspensions	Experimental methodology for time-dependent polymer materials	Nicolas Mougín Bubbles dynamic in yield stress fluids: internal stresses and wake effects.	S. Nahar Prediction of velocity profiles of shear thinning fluids flowing in tubes	Susana Filipe Non-linear rheological parameters for characterization of molecular structural properties in polyolefins	Sven Franke 2d-2c Ultrasound Doppler Array Velocimeter for Flow Investigations in Liquid Metals
15:40-16:00	Christopher Pipe Viscoelastic flow near planar stagnation points on bluff bodies in microfluidic devices	Philippe Coussot A general, conceptual, physical model for the rheology of jammed systems		JF Tassin Molecular picture of shear induced gelation in an associating polymer solution	Laurent Orgeas Xray microtomography and pull-out test to analyze the microstructure and fibre-fibre interactions in a concentrated fibre bundle suspension	Iakovos Vittorias Linear and non-linear rheology of linear polydisperse polyethylene	Klaus Timmel Ultrasonic flow measurements in a low temperature liquid metal model of the continuous steel casting process
16:00-17:00	Poster session 2						
19:00	Conference dinner at Hotel Park Avenue						