

Monday May 30

9:00	Registration opens			
10:00	Rheology course Hall E204 - Jan Vermant: Advanced Rheometric methods: from superposition to light scattering			
11:00	Rheology course Hall E204 - H. Henning Winter: Application of Rheology to Various Soft Materials			
12:00	Lunch			
13:00	Conference opening			
13:10	Chair: Stefania Baldursdottir Hall D101 A36-Jan Vermant: Rheology of complex fluid-fluid interfaces			
	Hall D101	Hall E207	Hall E204	Hall E205
	Advanced polymers and synthesis	Biopolymers	Food, pharmaceutical and biorheology	General rheology and rheometry
	Chair: Vladimir Aseyev	Chair: Matti Elomaa	Chair: Johanna Aho	Chair: Ole Hassager
14:00	Mauri Kostianen: Electrostatic Self-Assembly of Soft Matter Nanoparticle Co-Crystals with Tunable Lattice Parameters	Maria Klingberg: Cellulose fibre composites mixed at wet state	A3-Matilda Backholm: Complex viscoelastic fluid properties of a tiny worm	A8-Manfred Wilhelm: Effect of Molecular Weight, Polydispersity and Monomer of Linear Homopolymer Melts on the Intrinsic Mechanical Nonlinearity 3Q0(ω) in MAOS
14:20	Roberto Milani: Directing polymer self-assemblies through halogen bonds	David Reishofer: The Impact of Increased Humidity to Water and Heat Treated Cellulose Thin Films	A10-Mats Stading: Rheological modification of fluid foods for patients with dysphagia	A13-Lidija Slemenik Perše: The Effect of Polycaprolactone Grafting on Temperature Dependent Rheological Properties of Multiarm Star copolymers
14:40	Dirk W. Schubert : Magnetic Liquid Silicone Rubber – Revealing Effects and Process Limits	Marie Gestranius: Dual-phase Pickering emulsions stabilized by nanocellulosic materials	A23-Silke Rathgeber: Impact of Silver Nanoparticles on the mechanical properties of Aquabacterium biofilms	A15-Olli-Ville Laukkanen: Rheological analysis of bitumen as a complex glass-forming liquid and comparison with some simple glass-forming liquids
15:00	Coffee + posters + exhibition			
	Hall D101	Hall E207	Hall E204	Hall E205
	Advanced polymers and synthesis	Biopolymers	Particulate and fibrous dispersions	General rheology and rheometry
	Chair: Qilu Zhang	Chair: Hannes Orelma	Chair: Sami Hietala	Chair: Catherine Taylor Nordgård
16:00	Eduardo Garcia-Verdugo: Poly(acrylamide-homocysteine thiolactone) a suitable platform for the preparation of advanced materials	Karin Odellus: Towards Green and Functional Degradable Polymers	A21-Søren Hvidt : Rapid discrimination of endo- and exo-cellulases	A31-Roland Kádár: Influence of processing conditions on the linear and nonlinear oscillatory shear, extensional and combined dielectric-rheological properties of poly(ethylene- butyl acrylate) - graphite nanoplatelets - carbon black hybrid nanocomposites
16:20	Christian Hoffmann: Thiol-ene based material as a promising biocatalysis platform	Eva Bäckström: Microwave-Driven Valorization of Biopolymers: From Degradation to Applications	A22-Yana Petkova-Olsson: Structural, micro and macro-rheological properties of a ternary Silica-Pluronic F127-Starch system	A1-Ole Hassager: Rheology and Small Angle Neutron Scattering of model polymer systems
16:40	Stefan Spirk: Blend Biopolymer Thin Films – Some Surprises...	Johannes Thunberg: Biocomposites made of nanocellulose and amphiphilic copolymer EAA	A6-Milad Khatibi: Experimental investigation of salts effects on rheological properties of non-Newtonian fluids	A17-Jung-Eun Bae : Analytical Solutions of the Giesekus and the Phan-Thien and Tanner Models for LAOS
17:00	Anders Egede Daugaard: Functional bio-based polyesters by enzymatic polymerization	Martin Hervy: Life cycle analysis of nanocellulose reinforced advance fibre composites	Milan Kralik: Determination of interactions between nano-scaled TiO2 and clay in LDPE using novel rheological analysis approach	A19-Sangmo Kim: Phenomenological Model for Linear Viscoelasticity of Monodisperse Polymer
17:20	End of Day 1			
18:00	Welcome reception at Helsinki City Hall			

Tuesday May 31

9:00	Hall D101 Chair: Eero Kontturi Tsuguyuki Saito - Cellulose Nanofiber: Structures and Fundamental Properties			
	Hall D101	Hall E207	Hall E204	Hall E205
	Polymer based innovations	Biopolymers	Food, pharmaceutical and biorheology	General rheology and rheometry
	Chair: Fabian Pooch	Chair: Sirkka-Liisa Maunu	Chair: Søren Hvidt	Chair: Roland Kádár
9:50	Juan Ferrer: 3D printed macroporous materials	Paavo Penttilä: Supramolecular assembly of bacterial cellulose and wood hemicelluloses studied with small-angle x-ray scattering	A26-Arja Paananen: Interfacial assembly of Class II hydrophobin HFBI	A9-Manfred Wilhelm: Low-Field RheoNMR: Newly Developed Combination of Rheology and 1H TD-NMR to Correlate Mechanical Properties with Molecular Dynamics in Soft Matter
10:10	Maria Omastova: Polymeric actuators with aligned carbon nanotubes	Reeta Salminen: Allomorph transformation in immobilized cellulose nanocrystals on a 2D-surface submonolayer	A27-Norbert Raak: Potential of Thromboelastometry and Multispeckle Diffusing Wave Spectroscopy for Monitoring Acid-Induced Casein Gelation	A4-Matilda Backholm: Nanorheology of thin polymer films
10:30 Coffee				
10:50	Søren Hvilsted: Inverted grafting-to key to superior aqueous lubrication	Minna Hakalahti: Interfacial Modification of Nanocellulose Fibrils and Films for Temperature-Responsivity	A29-Isaya Appelesy Ketto: Modelling of acid milk coagulation data from a Formagraph	A24-Mats Larsson: Using DLS-Microrheology and Raman Spectroscopy to probe self-assembly and gelation mechanisms in complex fluids
11:10	Manfred Wilhelm: Desalination of salt water via polyelectrolyte hydrogels and osmotic motors	Hannes Orelma: UV-crosslinkable nanocellulose with benzophenone grafting	A30-Catherine Taylor Nordgård: The effect of nanoparticles on airway mucus functional properties, a case study	A35-Jan P. Plog: Rheology-Raman Spectroscopy: Tracking Polymer Crystallization with the Combination of a Rheometer and a Raman-Microscope
11:30	Joonas Siirilä: Gold nanoparticle decorated thermoresponsive gel particles	Tina Borke: Poly(glycerol glycerol) - A Multifunctional Alternative to PEG	A38-Johanna Aho: Drug-loaded poly(ϵ -caprolactone) for 3D printing of personalized medicine: a rheological study	A2-J. Läger: Relative humidity as a new parameter in rheological testing
11:50 Lunch				
12:30 posters + exhibition (NRS Annual meeting + SPPY annual meeting)				
14:00	Hall D101 Chair: Jukka Seppälä Robin Ras - Droplet dynamics on superhydrophobic surfaces			
	Hall D101	Hall E207	Hall E204	Hall E205
	General polymer chemistry	Polymer rheology	Particulate and fibrous dispersions	General rheology and rheometry
	Chair: Tina Borke	Chair: Eduardo Garcia-Verdugo	Chair: Mikael Rigdahl	Chair: Reidar Schüller
14:50	Patrick Navard: Correlations between genotype biochemical composition and histological structure and mechanical properties of sorghum-polyethylene composites	Roland Kádár: Transition sequences of supercritical polymer melt straight and curved streamlines channel extrusion flows in a high sensitivity mechanical pressure system	A14-Tobias Moberg: Rheological properties of aqueous nanocellulosic dispersions	A16-Olli-Ville Laukkanen: Rheological characterization of styrene-butadiene-styrene block copolymer modified bitumens
15:10	Steven Spoljaric: One-pot, mouldable, thermoplastic resins from poly(propylene carbonate) and poly(caprolactone triol)	Tatiana Budtova: Rheological properties of molten composites reinforced with cellulose fibres	A7-Meri J. Lundahl: Strength and Water Interactions of Cellulose I Filaments Wet-Spun from Cellulose Nanofibril Hydrogels	A37-Jiqing Zhu: Characterization and Modelling of Phase Separation in Polymer Modified Bitumen
15:30	Fabian Pooch: Poly(2-isopropyl-2-oxazoline)-block-Poly(lactide): Nanostructures and their properties in solid-state and aqueous solution	Qian Huang: Fracture in Polymer Melts: The Viscoelastic Trumpet Profile	A28-Yibo Ma: Effect of E-beam treatment of ligno-cellulosics on the rheological properties of the IL solutions	A41-Yogesh Narasimman: Feed Compositional Effects on Rheological and Microstructural Characteristics of High Protein Vegetable Extrudates
15:50	Els Verdonck: Strategies for Better DSC Data	Abhijit Venkatesh: Magnesium chloride and sodium chloride as alternative plasticizers for starch	H. Henning Winter: The W-Criterion for Shear Banding in Complex Fluids	Joachim Kaschta: Reliable determination of the cross-link density in crosslinked polyethylenes by a new rheological measurement
16:10 Coffee				
16:30	Hall D101 Chair: Heikki Tenhu Francoise Winnik: Thermo/photo/pH sensitive nanogels as stabilizers of Pickering high internal phase emulsions			
17:15	Krzysztof Matyjaszewski - Bioconjugate Hybrid Materials Prepared by Atom Transfer Radical Polymerization			
18:00	End of Day 2			
19:30	Conference Dinner			

Wednesday June 1

Hall D101				
Chair: Søren Hvilsted				
9:00	Ilkka Kilpeläinen Electrolyte solutions of biopolymers			
9:30	Niklas Nordgren - Interfacial behavior of biomaterials at the nanoscale			
	Hall D101	Hall E207	Hall E204	Hall E205
	Biopolymers	Advanced polymers and synthesis	Non-Newtonian fluid mechanics and flow simulation	General polymer chemistry
	Chair: Pirjo Pietikäinen	Chair: Mauri Kostiainen	Chair: Olli-Ville Laukkanen	Chair: Heikki Tenhu
10:20	Song Wenzhe: Foam templated biobased macroporous polymers	Massimiliano Mauri: Crosslinking of an Ethylene-Glycidyl Methacrylate Copolymer	A5-Natalie Germann: Numerical investigation of a two-fluid model for shear banding polymer solutions	Andriy Dorokhin: Model d8-Polystyrene-block-Polystyrene 3-Arm Star Synthesis for Rheology Studies
10:40	Asif Javed: Study of starch and starch-PVOH blends and effects of plasticizers on mechanical and barrier properties of coated paperboard	Xi Yang: Strategies for Development of Migration Resistant Poly lactide Plasticizers from Recycled Biopolymers	A20-H. Mercan: Numerical Simulation of 3-D Film Blowing Process Under Thermal and Crystallinity Effects	Philip Overton: Silica-Polyelectrolyte Nanocomposites From Aqueous Solutions Under Mild Conditions
11:00	Kirsti Parikka: Polysaccharide hydro- and aerogels by chemo-enzymatic oxidation	Mattias Andersson: HDPE, an additive for LDPE: Correlation of microstructure and electrical conductivity	A46 - Kwang Soo Cho: Direct Conversion of Creep Data to Dynamic Moduli	Kristina Karlsson: Foaming of hydroxypropyl methylcellulose
11:20	Coffee			
Hall D101				
Chair: Mats Stading				
11:50	A42-Henning H. Winter: Miraculous Gelation - Unresolved Problems and Open Questions of Gelation Rheology			
12:40	Closing of conference + Lunch			