

Time	Tuesday, June 10		Time	Wednesday, June 11		Time	Thursday, June 12	
	Ludwig-Erhard-Saal	Gelber Saal		Ludwig-Erhard-Saal	Gelber Saal		Ludwig-Erhard-Saal	Gelber Saal
08:30-12:30	-	Short Course	08:30-09:15	Plenary Lecture Maria Charalambides <i>Developing enabling tools for design of better, healthier and tastier food products</i>	-	08:30-09:15	Carl Klason Award Lecture Mats Stading <i>From fluid to solid research</i>	-
12:30-13:30	Buffet Lunch	Buffet Lunch		Advances in rheological methods Chair: Valerian Hirschberg	Food rheology Chair: Norbert Raak	09:15-09:25	Group Photo	-
13:30-13:45	Opening Ceremony	-	09:20-09:40	Iliya Stoev <i>Microrheology of sequence-programmable DNA hydrogels</i>	Christiane Drechsel <i>Investigation of the displacement behaviour of highly concentrated sugar-oil suspensions using a Hele-Shaw cell</i>		Engineering rheology Chair: José Alberto Rodríguez Agudo	Biopolymer rheology Chair: Olli-Ville Laukkanen
	Advances in rheological methods Chair: Ulrich Handge	Suspensions, composites and multiphase materials Chair: Viney Ghai	09:40-10:00	Janne Koivisto <i>3D microrheology for hydrogel microstructure analysis</i>	Florian Nettesheim <i>Why extensional rheology in food science?</i>	09:25-09:45	Christopher Krüsenner <i>Laser sintering of high molecular weight polyethylene powders: A feasibility study</i>	Martti Toivakka <i>High shear viscosity of microfibrillated cellulose suspensions</i>
13:50-14:10	Jörg Läger <i>Rheo-impedance and tribo-impedance spectroscopy of lubricating greases for electric vehicles</i>	Juan Pablo Segovia Gutiérrez <i>Mechanical properties of alginate/gellan hydrogels with crosslinked amine-functionalized silica fillers</i>	10:00-10:20	Juho Pokki <i>Resolving spatiotemporal 3D matrix viscoelasticity driving breast tumor cell dynamics via microscopy-integrated magnetic microrheometry</i>	Dominic Oppen <i>Simulation of food breakdown mechanics – A novel approach to food texture analysis</i>	09:45-10:05	Blandine Feneuil <i>Effect of gas dissolution on the flow curve of drilling fluids</i>	Reina Tanaka <i>Viscoelastic relaxation of cellulose nanocrystals (CNCs) and individualized cellulose nanofibers (CNFs) in the dilute region</i>
14:10-14:30	Carlos Gracia Fernández <i>3D combined rheo/dielectric measurements of piezoelectric polymers</i>	Roland Kádár <i>Origin and stability criterion for surface instabilities in wood polymer extrusion</i>	10:20-10:50	Coffee Break	Coffee Break	10:05-10:25	Fabio Curto <i>Rheological characterization of bituminous compounds for the optimization of roofing membranes</i>	Christoph Hundschell <i>Rheological characterization of an acetan-like polysaccharide produced by <i>Kozakia ballensis</i></i>
14:30-14:50	José Alberto Rodríguez Agudo <i>Understanding functional materials by coupling axial-torsional DMA with Raman spectroscopy</i>	Michael Müller-Pabel <i>Rheological and technological aspects of UV-curing thick polymer layers with fiber reinforcement</i>		Advances in rheological methods Chair: Juho Pokki	Food rheology Chair: Anja Wagemans	10:25-10:45	Saeid Kheirandish <i>Interplay between experimental rheology and computational fluid mechanics in optimization of rubber production processes</i>	Ann Terry <i>Experimental opportunities for flow-field – structure interaction across lengthscales at MAX IV</i>
14:50-15:10	Eduardo Filippetto Martins <i>Curing kinetics from combined rheology and spectroscopy for silicone elastomers</i>	Mohor Mihelčič <i>Rheological and mechanical properties of TPU composites reinforced with silver-coated copper flakes</i>	10:50-11:10	Christian Kneidinger <i>Discussion about the Weissenberg-Rabinowitsch correction for high-pressure capillary rheometry measurements</i>	Sandra Barman <i>Rheology in fibre formation during extrusion of plant-based meat-analogues</i>	10:45-11:15	Coffee Break	Coffee Break
15:10-15:40	Coffee Break	Coffee Break	11:10-11:30	Ases Akas Mishra <i>One test to predict them all: Rheological characterization of soft matter using Artificial Neural Networks</i>	Teng Wang <i>Plant protein isolates as egg replacers: Gelling properties of heat-set hybrid gels</i>		Engineering rheology Chair: Gustaf Mårtensson	Non-Newtonian fluid mechanics Chair: Saeid Kheirandish
	Advances in rheological methods Chair: Florian Nettesheim	Suspensions, composites and multiphase materials Chair: Andreas Wierschem	11:30-11:50	Jack Yang <i>Combining rheology models and neural networks to predict viscosity</i>	Elena Köster <i>Effect of solubility on the gelation of pea protein emulsions from commercial isolates using microbial transglutaminase</i>	11:15-11:35	Udo Schonhoff <i>Rheological effect of sustainable thickener solutions on paints and coatings</i>	Peyman Rostami <i>Oscillation dynamics of viscous and viscoelastic drops</i>
15:40-16:00	Joachim Sunder <i>Measuring first normal stress difference at high shear rates via capillary rheometer</i>	Olli-Ville Laukkanen <i>The sol-gel transition of colloidal silica suspensions studied by time-resolved rheometry</i>	11:50-12:10	Krzysztof Piechocki <i>Viscosity measurements as an alternative method for PBT hydrolysis studies</i>	Jonas Wirries <i>Quantifying Stress-Relevant Shrinkage of Curing Adhesives with a Modified Rheometer</i>	11:35-11:55	Masoumeh Amiri <i>Rheological behavior of Bentonite-water mud under elevated temperatures: Insights for predicting fluid performance</i>	Moritz Neukötter <i>Flow around particles in uniaxially elongated capillary bridges</i>
16:00-16:20	Matthias Lesti <i>Milk coagulation kinetics studied with Multi-Speckle Diffusing Wave Spectroscopy</i>	Viney Ghai <i>Influence of rheological properties on the orientation dynamics of 1D materials in Newtonian and non-Newtonian fluids</i>	12:10-13:20	Buffet Lunch	Buffet Lunch	11:55-12:15	Alexander Mezhev <i>Application of an oscillatory squeeze flow test for characterization of cement-based materials</i>	Galina Shugai <i>Modeling and simulation of non-Newtonian fluid flow using COMSOL® Multiphysics</i>
16:20-16:40	Gustaf Mårtensson <i>High-speed synchrotron x-ray analysis of non-contact jetting process</i>	Lola González-García <i>Strain hardening in conductive suspensions</i>	13:20-13:50	NRS Young Rheologist Award Lecture Julie Frost Dahl <i>Measure, understand and predict structure formation in anisotropic plant-based foods – usina rheoav</i>	-	12:15-12:35	Blandine Feneuil <i>Flow curves and fluid loss of water-based drilling fluids</i>	José Alberto Rodríguez Agudo <i>dJR in Action: Activities and next steps</i>
16:40-17:00	Roland Kádár <i>Rheo-PLI-SAXS beyond the proof-of-principle</i>	Sergio Lago-Garrido <i>Influence of the surface chemistry of multi-walled carbon nanotubes on rheoelectrical properties of electrofluids</i>		Polymer rheology Chair: Erik Wassner	Industry-Academia workshop	12:40-12:55	Closing Ceremony	-
17:00-18:00	Poster Session	Poster Session	13:55-14:15	Markus Kämpfe <i>Representation of the rheological behavior of blend-based thermoplastic elastomers by standard testing procedures</i>		13:00-14:00	Buffet Lunch	Buffet Lunch
18:00-19:30	Welcome Reception	Welcome Reception	14:15-14:35	Manfred Wagner <i>A novel strain hardening index SHI for long-chain branched polymer melts</i>	Co-chairs: Dragana Arlov, Gustaf Mårtensson, Florian Nettesheim & Olli-Ville Laukkanen	14:00	End of Conference	End of Conference
			14:35-14:55	Christian Töpfer <i>From flow curves to polymer architecture: Understanding molecular structure through rheology</i>				
			14:55-15:15	H. Henning Winter <i>Interactive stress relaxation in polymers, fast and slow</i>				
			15:15-15:45	Coffee Break	Coffee Break			
				Polymer rheology Chair: Roland Kádár	Biopolymer rheology Chair: Dietmar Auhl			
			15:45-16:05	Valerian Hirschberg <i>Rheology of recycled Ziegler-Natta and Phillips catalyst HDPE and modelling with rheological constitutive models</i>	Sergejs Gaidukovs <i>Photorheology as a robust tool to optimize the light curing process of bio-based resins</i>			
			16:05-16:25	Alexsandar Arumugam <i>Shear and extensional rheology of blends of Phillips / Ziegler-Natta catalyst HDPE for material upcycling</i>	Pauliina Ahokas <i>Optimizing cellulose film properties: Controlling viscosity and tensile strength through mixture design</i>			
			16:25-16:45	Joachim Kaschta <i>Influence of long-chain branching and strain history on the edge fracture phenomenon in polymer melts</i>	Juliane Kade <i>Investigation on the effect of methyl cellulose addition to high-fiber-content foams</i>			
			16:45-17:05	Daniel Treffer <i>Small error bars, big advances in polymer research - The proper sample preparation makes all the difference</i>	Antti Koponen <i>Rheological behavior of aqueous suspensions of highly-refined fibers</i>			
			17:10-18:00	General Assembly of the DRG	Annual Meeting of the NRS			
			19:30-22:30	Conference Dinner	Conference Dinner			

List of posters

Peng Wang	<i>Flow behaviour of polyolefin blends and recyclates in experiments, processing, and modelling flow</i>
Mari Niemelä	<i>Evaluating polymer melt flow simulation: A comparison of material models using open source software OpenFOAM</i>
Mohor Mihelčič	<i>Experimental and theoretical analysis of time-dependent behaviour of non-cross-linked polymers</i>
Saba Taheri	<i>On the strain rate dependence of well characterized HDPE melts in uniaxial elongation flow</i>
Oliver Löschke	<i>Fibre breakup extensional rheology (FIBER) of polymer melts</i>
Ömer Gürçaz	<i>Stability analysis of rheology and matting paste in coil coatings over time and the effects of production parameters</i>
Lukas Schwab	<i>Insights to structural changes in cosmetics during shear by impedance spectroscopy</i>
Sayoojya Prasad	<i>Enlarging datasets for spatial differentiation of mechanical cues using probe-based magnetic microrheology of matrices for 3D cancer cell cultures</i>
Philomène Le Bastard de Villeneuve	<i>Generation and characterisation of gelled surfactant-based complex fluids</i>
Aneta Teleglów	<i>The influence of various forms of one-time physical activity on the rheological properties of blood in young men</i>
Felix Ellwanger	<i>Observations from capillary and closed cavity rheometry of the apparent flow behaviour of a soy protein isolate formulation used in meat analogs</i>
Ulrike van der Schaaf	<i>Rheological behaviour of meat and meat substitutes during digestion: A simulated study of gastrointestinal transit</i>
Norbert Raak	<i>Rheology, microstructure and water holding of acid-induced gels from cross-linked caseinate</i>

