







NOVEL TRENDS IN RHEOLOGY IX PROGRAMME

July 26, 2023					
Time	Event	Presentation Title			
8:00-8:50	Registration				
8:50-9:00	Welcome				
	(Chairman: Helmut Münstedt)	EXTENSIONAL RHEOMETRY			
9:00-9:30	Christopher W. Macosko University of Minnesota Minneapolis, USA	Extensional Rheometry via Flow through an Abrupt Contraction: a Short Review			
9:30-10:00	Martin Zatloukal Tomas Bata University in Zlin Zlin, Czech Republic	Advances in Determination of Extensional Viscosities for Polymer Melts from Entrance Pressure Drop Measurements			
10:00-10:30	Cofee break & Exhibition				
	(Chairman: Manfred Wilhelm)	INTRODUCTION OF NOVEL RHEOLOGICAL TOOLS			
10:30-11:00	Onur Özgul NETZSCH-Gerätebau GmbH Selb, Germany	Polymer Rheology: from Material Characterization to Process Simulation with NETZSCH Rheometers			
11:00-11:30	Ansgar Frendel Thermo Fisher Scientific Dreieich, Germany	Continuous Twin-screw Extrusion and Rheological Analysis of Electrode Slurries for Lithium-ion Battery Manufacturing			
11:30-12:00	Loredana Völker-Pop Anton Paar Germany GmbH Ostfildern, Germany	Combined Rheology and Spectroscopy Methods to Characterize the Cure Behavior of Epoxy Resins			
12:00-13:30	Lunch & Exhibition				
	(Chairman: Savvas George Hatzikiriakos)	RHEOLOGY OF POLYMERIC MATERIALS I			
13:30-14:00	Helmut Münstedt Friedrich-Alexander University Erlangen-Nürnberg Erlangen, Germany	Strain Hardening of Various Polymer Melts			
14:00-14:30	Paula Marie Wood-Adams Concordia University Montreal, Canada	Shear Flow of Bimodal Polyethylene: Slip and Surface Fractionation	*		
14:30-15:00	Cofee break & Exhibition				
	(Chairman: Roland Kádár)	RHEOLOGY OF POLYMERIC MATERIALS II			
15:00-15:30	Savvas George Hatzikiriakos University of British Columbia Vancouver, Canada	Self-healing Behavior of Aminated Polyolefins with Dynamic Associations	*		
15:30-16:00	Alan Jeffrey Giacomin University of Nevada Reno, USA	Recent Advances in Polymer Viscoelasticity from General Rigid Bead-rod Theory			
18:30	Conference dinner				

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Conference programme:

http://noveltrends9.ft.utb.cz/programme.html











July 27, 202	<u> </u>		
Time	Event	Presentation Title	
	(Chairman: Alan Jeffrey Giacomin)	RHEOLOGY OF POLYMERIC MATERIALS III	
8:30-9:00	Valerian Hirschberg Karlsruhe Institute of Technology (KIT) Karlsruhe, Germany	Shear and Elongational Rheology of Model Polystyrene Pom-Poms	
9:00-9:30	Manfred Hermann Wagner Berlin Institute of Technology (TU Berlin) Berlin, Germany	Modeling Elongational Flow and Fracture of Long-chain Branched Polymer Melts	
9:30-11:00	Cofee break & Poster section & Exhibition		
	Khunanya Janchai Japan Advanced Institute of Science and Technology Nomi, Japan	Role of Nucleating Agent on Molecular Orientation of Polypropylene Crystallized under Flow Field	•
	Jiri Drabek Tomas Bata University in Zlín Zlín, Czech Republic	Effect of Pre-Shear on Flow-Induced Crystallization of Branched Polypropylene	
	Sajjad Pashazadeh Chalmers University of Technology Göteborg, Sweden	Surface Instability Detection in Highly-Filled Biocomposites from Inline Imaging during Extrusion	+-
	Tomas Barborik Tomas Bata University in Zlín Zlín, Czech Republic	Modeling of Extrusion Film Casting Process for Battery Separator Membranes Production using Variable Heat Transfer Coefficient	
	Vít Průša Charles University in Prague Prague, Czech Republic	Gibbs Free Energy Based Constitutive Relations for Elastic Solids and their Use in Mathematical Modelling of Viscoelastic Fluids	
	Miloslav Pekař Brno University of Technology Brno, Czech Republic	Gustav Jaumann and History of (Not Only) Rheology	
	Ana Vera Machado University of Minho Guimarães, Portugal	Food Packaging – from Multimaterials to Monomaterial	•
	Jan Štípek Czech Technical University in Prague Prague, Czech Republic	Determination of Viscoelastic Properties of Collagen Matter Using Various Methods within Extrusion Rheometry	
	Martin Kadlec Brno University of Technology Brno, Czech Republic	Dynamic Mechanical Analysis of Agarose Hydrogels and Its Relationship to Shear Oscillation	
	Nabanita Saha Tomas Bata University in Zlín Zlín, Czech Republic	Rheology of Polysaccharide based Self-Cross-Linked Injectable Hydrogel	
	Michal Sedlačík Tomas Bata University in Zlín Zlín, Czech Republic	Magneto-Active Ferrite-Based Paint Pigments	
	Marek Večeř VSB - Technical University of Ostrava Ostrava, Czech Republic	Shear Stability of Base Fluids for Environmentally Acceptable Lubricants for Stern Tube Application	
	(Chairman: Christopher W. Macosko)	RHEOLOGY OF POLYMERIC MATERIALS IV	
11:00-11:30	Manfred Wilhelm Karlsruhe Institute of Technology (KIT) Karlsruhe, Germany	Novel Combined Methods in Rheology: Rheo-NMR, Rheo-IR and Rheo-Dielectric to Correlate Length and Time Scales	
11:30-12:00	Masayuki Yamaguchi Japan Advanced Institute of Science and Technology Nomi, Japan	Modification of Rheological Responses under Elongational Flow at Non-Isothermal Condition	•
12:00-13:30	Lunch & Exhibition		
	(Chairman: Manfred Hermann Wagner)	NON-NEWTONIAN FLUID MECHANICS	
13:30-14:00	João Miguel Nóbrega University of Minho Guimarães, Portugal	Computational Modelling of the Selective Laser Sintering Process	•
14:00-14:30	Roland Kádár Chalmers University of Technology Göteborg, Sweden	Challenges in Nano-Structured Fluid Flows for Assembly into Hierarchical Biomaterials	+
14:30-15:00	Refreshment & End of the conference		





Proven Excellence.



