





NOVEL TRENDS IN RHEOLOGY VI PROGRAMME

July 28, 2015			
Time	Event	Presentation Title	
7:00-8:20	Registration		
8:20-8:30	Welcome		
	(Chairman: Yong Woo Inn)	FLOW INSTABILITIES I	
8:30-9:00	Helmut Münstedt Friedrich-Alexander University Erlangen-Nürnberg, Germany	Investigations of Slip in Capillary Flow by Laser-Doppler Velocimetry and Their Relations to Melt Fracture	
9:00-9:30	Savvas George Hatzikiriakos The University of British Columbia, Canada	Biodegradable Polymers: Wall Slip, Melt Fracture, and Processing Aids	
9:30-10:00	Cofee break & Exhibition		
	(Chairman: Savvas George Hatzikiriakos)	FLOW INSTABILITIES II	
10:00-10:30	Yong Woo Inn Chevron Phillips Chemical Company LP, USA	Melt Fracture, Wall Slip, and Flow-Induced Fractionation of Bimodal Polyethylenes	
10:30-11:00	Martin Zatloukal Tomas Bata University in Zlín, Czech Republic	Die Drool Phenomenon in Plastics Processing	
11:00-11:30	Paula Marie Wood-Adams Concordia University, Canada	Slip of Polydisperse Polymers: Molecular Weight Distribution Above and Below the Plane of Slip	
11:30-12:00	John Robert Dorgan Colorado School of Mines, USA	Flow Induced Migration in Polymer Melts – Theory and Simulation	
12:00-13:30	Lunch & Exhibition		
	(Chairman: Alan Jeffrey Giacomin)	DEGRADATION AND STABILITY	
13:30-14:00	Manfred Hermann Wagner Víctor Hugo Rolón-Garrido Berlin Institute of Technology (TU Berlin), Germany	Rheological Characterization of Thermal, Thermo-Oxidative and Photo-Oxidative Degradation of LDPE	
14:00-14:30	Ana Vera Machado University of Minho, Portugal	Effect of Shear Rate on Ethylene/Propylene Copolymers Degradation	
14:30-15:00	Cofee break & Exhibition		
	(Chairman: Manfred Hermann Wagner)	DEGRADATION AND FLOW INSTABILITIES	
15:00-15:30	Alan Jeffrey Giacomin Queen's University, Canada	Die Drool and Polymer Degradation	
15:30-16:00	Olga Sousa Carneiro University of Minho, Portugal	Weld Lines in Extrusion: Understanding the Role of the Flow Conditions	
18:30	Conference dinner		

Partners









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	(Chairman: Vít Průša)	CONSTITUTIVE EQUATIONS
8:00-8:30	Manfred Hermann Wagner Berlin Institute of Technology (TU Berlin), Germany	A Unifying Model for Elongational Flow of Polymer Melts and Solutions Based on the Interchain Tube Pressure Concept
8:30-9:00	Radek Pivokonsky Institute of Hydrodynamics ASCR, Czech Republic	Applicability of the Modified XPP Model to a Description of Flow Behaviour of Polymeric Materials
9:00-9:30	João Miguel Nóbrega University of Minho, Portugal	Implementation of Integral Viscoelastic Constitutive Models in OpenFOAM® Computational Library
9:30-10:30	Cofee break & Poster section & Exhibition	
	Vít Průša Charles University in Prague, Czech Republic	Perspectives on Using Implicit Type Constitutive Relations in the Modelling of the Behaviour of Non-Newtonian Fluids
	Jiri Drabek Tomas Bata University in Zlín, Czech Republic	Investigation of Thermal Degradation of Branched Polypropylene via Rheology
	Pavol Alexy Slovak University of Technology, Slovak Republic	Oscillation Rheometry – Method for Processing Stability Testing of High Sensitive Polymers
	Esmaeil Narimissa Berlin Institute of Technology (TU Berlin), Germany	Comparison between Extensional Rheological Properties of Low Density Polyethylene Melt in SER and RME Rheometric Systems
	Tomas Barborik Tomas Bata University in Zlín, Czech Republic	Effect of Viscoelastic Stress State at Die Exit on Extrusion Film Casting Process: Theoretical Study
	Milan Kracalik Johannes Kepler University Linz, Austria	Rheology of Multiphase Polymer Systems using Novel "Melt Rigidity" Evaluation Approach
	Eva Hnatkova Tomas Bata University in Zlín, Czech Republic	Rheological Investigation of Highly Filled Polymers: Effect of Molecular Weight
	Evgeny Karpushkin Lomonosov Moscow State University, Russia	Shear-Induced Structure Evolution of Carbon Nanotubes Dispersions in Polyacrylonitrile–Dimethylsulfoxide Solution
	Petra Peer Institute of Hydrodynamics ASCR, Czech Republic	Comparison of Electrorheological Characteristics Obtained in Two Geometrical Arrangements: Parallel Plates and Concentric Cylinders
	Jan Skočilas Czech Technical University in Prague, Czech Republic	Squeezing Flow of Collagen Solution – Mathematical Model of Shear and Elastic Behavior
	Rushita Shah Tomas Bata University in Zlín, Czech Republic	Preparation of Bacterial Cellulose Based Hydrogels and Their Viscoelastic Behavior
	Dusan Kimmer SPUR a.s., Czech Republic	The Effect of Combination Electrospun and Meltblown Filtration Materials on Their Filtration Efficiency
	(Chairman: Paula Marie Wood-Adams)	INTRODUCTION OF NOVEL RHEOLOGICAL TOOLS
10:30-11:00	Jan Philip Plog Thermo Fisher Scientific, Germany	Following Curing Reactions with Rheometry and Simultaneous FTIR- Spectroscopy
11:00-11:30	Michael Schopferer TA Instruments, USA	Orthogonal Superposition (OSP) Rheology as a Tool to Study Structures in Complex Fluids
11:30-12:00	Loredana Mirela Völker-Pop Anton Paar Germany GmbH, Germany	Novel Technologies for Rheological Investigations
12:00-13:30	Lunch & Exhibition	
	(Chairman: Helmut Münstedt)	ELONGATIONAL RHEOLOGY
13:30-14:00	Teodor Burghelea Universite de Nantes, France	Necking Failure and Physical Rupture of a Molten Low Density Polyethylene (LDPE) Sample Undergoing Uniaxial Extension
14:00-14:30	Zdeněk Starý Friedrich-Alexander University Erlangen-Nürnberg, Germany	Electrical Conductivity and Rheology of Carbon Black Composites under Elongation
14:30-15:00	Refreshment & Exhibition	
	(Chairman: João Miguel Nóbrega)	FLOW MODELING
15:00-15:30	lvo Nezbeda J. E. Purkinje University, Czech Republic	Application of Computer Simulations: Molecular Insight into Electrospinning
15:30-16:00	Wannes Sambaer Tomas Bata University in Zlín, Czech Republic	3D modeling of Polyurethane Electrospun Nanofiber Membrane Clogging During Air Filtration
16:00	End of the conference	

Partners







