





NOVEL TRENDS IN RHEOLOGY V PROGRAMME

July 30, 2013	3	
Time	Event	Presentation Title
7:00-8:20	Registration	
8:20-8:30	Welcome	
	(Chairman: A. Jeffrey Giacomin)	SLIP OF POLYMER MELTS
8:30-9:10	Savvas Hatzikiriakos	Wall Slip of Linear Polymers (HDPEs)
Plenary lecture	The University of British Columbia, Canada	
9:10-9:40	Paula M. Wood-Adams	Microfluidics Study of the Effect of Polydispersity on Interfacial Slip of
	Concordia University Montreal, Canada	Polymer Melts
9:40-10:10	Cofee break & Exhibition	
	(Chairman: Manfred H. Wagner)	ELONGATIONAL RHEOLOGY OF POLYMER MELTS I
10:10-10:50	Helmut Münstedt	Elongational Experiments on Polymer Melts and Their Assessment
Plenary lecture	Friedrich-Alexander University Erlangen-Nürnberg, Germany	
10:50-11:20	Zdeněk Starý	On the Viscosity Maximum during Uniaxial Extension: Material Property
	Friedrich-Alexander University Erlangen-Nürnberg, Germany	or Measuring Artifact?
11:20-11:50	Joao M. Maia	True Ultra-high Strain Constant Rate and Stress Uniaxial Extensional
	Case Western Reserve University, USA	Rheometry
11:50-12:20	Martin Zatloukal	Evaluation of Temperature-strain rate Dependent Uniaxial and Planar
	Tomas Bata University in Zlin, Czech Republic	Elongational Viscosities for Branched LDPE Polymer Melt
12:20-13:50	Lunch & Exhibition	
	(Chairman: Frederik Desplentere)	EXTRUSION FLOW MODELING
13:50-14:20	Olga S. Carneiro	Effect of Polymer Melt Wall Slip on the Flow Balance of Profile
	University of Minho, Portugal	Extrusion Dies
14:20-14:50	João M. Nóbrega	On the Performance of a 2D Unstructured Computational Rheology
	University of Minho, Portugal	Code on a GPU
14:50-15:20	Cofee break & Exhibition	
	(Chairman: Zdeněk Starý)	NANOCOMPOSITES AND POLYMER BLENDS
15:20-15:50	Ana Vera Machado	Rheology as a Tool to Follow Hybrid Nanocomposites Preparation
	University of Minho, Portugal	
15:50-16:20	Ivan Fortelný	Description of the Flow Induced Coalescence in Immiscible Polymer
	Institute of Macromolecular Chemistry ASCR, Czech Republic	Blends – Advances and Persisting Problems
18:30	Conference dinner	

Partners





8:40-9:10 Víctor H. R Berlin Instit 9:10-9:40 Petr Filip Institute of 9:40-10:40 Cofee brea Matthias Ki	tute of Technology (TU Berlin), Germany colón-Garrido rute of Technology (TU Berlin), Germany Hydrodynamics ASCR, Czech Republic k & Poster section & Exhibition	ELONGATIONAL RHEOLOGY OF POLYMER MELTS II Elongational Flow of Polymer Melts at Constant Strain Rate, Constant Stress and Constant Force Photo-oxidation of LDPE: Effects on Elongational Viscosity On the (Ir)Reproducibility of Measurements of Elongational Viscosity Using an SER Universal Testing Platform
Plenary lecture Berlin Institute of 9:40-10:40 Petr Filip Institute of 9:40-10:40 Petr Silip Institute of Matthias Ki Berlin Institute of Berl	tute of Technology (TU Berlin), Germany colón-Garrido rute of Technology (TU Berlin), Germany Hydrodynamics ASCR, Czech Republic k & Poster section & Exhibition	Stress and Constant Force Photo-oxidation of LDPE: Effects on Elongational Viscosity On the (Ir)Reproducibility of Measurements of Elongational Viscosity
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9:10-9:40 Petr Filip Institute of 9:40-10:40 Cofee brea Matthias Ki Berlin Institute	Hydrodynamics ASCR, Czech Republic k & Poster section & Exhibition	On the (Ir)Reproducibility of Measurements of Elongational Viscosity
Institute of 9:40-10:40 Cofee brea Matthias Kr Berlin Instit	k & Poster section & Exhibition	
Matthias Ki Berlin Instit		
Berlin Instit	ruse	
		Rheological Characterization of Degradation and Polycondensation of
Ales Obr	tute of Technology (TU Berlin), Germany	Poly(ethylene terephthalate) Melt in Air and in Nitrogen
SHONer	o, Czech Republic	Investigation of Crosslinking Behaviour of Silane Grafted Polyethylene through Rheology
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Zdeněk Sta Friedrich-A	ıry lexander University Erlangen-Nürnberg, Germany	Shear Induced Electrical Behaviour of Conductive Polymer Composites
Jiri Drabek		Rheological Evaluation of Melt Blown Polymer Melt
Tomas Bat	a University in Zlin, Czech Republic	
Takeshi Kit	ano	Effect of Strain on Viscoelastic Behavior of
Tomas Bat	a University in Zlin, Czech Republic	Fresh, Swelled and Mineralized PVP-CMC Hydrogel
Jan Musil Tomas Bat	a University in Zlin, Czech Republic	Characterization of Die Drool Sample Produced by HDPE Melt Extrusion
Kamil Kyas		Effect of Rheological Parameters on Curing Rate during NBR Injection
-	a University in Zlin, Czech Republic	Molding
Roman Kol	arik a University in Zlin, Czech Republic	Evaluation of Variational Principle Based Model for LDPE Large Scale Film Blowing Process
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Petr Sloboo Tomas Bat	a University in Zlin, Czech Republic	Deformation Theory of an Electro-conductive Composite Composed of Entangled Network of Carbon Nanotubes Embedded in Elastic Polyurethane
Rushita Sh Tomas Bat	ah a University in Zlin, Czech Republic	Morphology, Absorptivity and Viscoelastic Properties of Mineralized PVP-CMC Hydrogel
Petra Peer Institute of	Hydrodynamics ASCR, Czech Republic	Quality of Nanofibrous Web in Dependence on the Preparation of Polymer Solutions
Dusan Kim	mer	The Effect of Nanofiber Based Filter Morphology on Bacteria
SPUR a.s.,	Czech Republic	Deactivation during Water Filtration
	(Chairman: Joao M. Maia)	INTRODUCTION OF NOVEL RHEOLOGICAL TOOLS
10:40-11:10 Michael Rin Anton Paal	nghofer · GmbH, Austria	The possibilities of a rheometer with two EC motors: MCR 702 TwinDrive™
11:10-11:40 Bernd Jako ThermoFisi	b her Scientific, Germany	Relevant Process Parameters for Twin Screw Compounding
11:40-13:10 Lunch & E>	chibition	
	(Chairman: Savvas Hatzikiriakos)	EXTRUSION INSTABILITIES IN PLASTICS INDUSTRY
13:10-13:50 A. Jeffrey C		Die Drool and Die Drool Theory
Plenary lecture University	of Wisconsin-Madison, USA	
13:50-14:20 Jan Musil Tomas Bat	a University in Zlin. Czech Republic	Historical Review of Die Drool Phenomenon during Plastics Extrusion
14:20-14:50 Jiri Svabik		Numerical Simulation of Extrusion: A Good Tool for Troubleshooting
Compuplas	t International, Inc., Czech Republic	Extrusion Problems
14:50-15:20 Cofee brea	k & Exhibition	
	(Chairman: Olga S. Carneiro)	MODELING AND SIMULATION
15:20-15:50 Frederik De	•	Influence of the Power Law Index on the Fiber Breakage during
	sociation KU Leuven), Belgium	Injection Molding by Numerical Simulations
15:50-16:20 Roman Kol Tomas Bat	arik a University in Zlin, Czech Republic	Investigation of Heat Transfer in 9-Layer Film Blowing Process by using Variational Principles
16:20-16:50 Wannes Sa	ambaer	Effect of Particle-Fiber Friction Coefficient on Ultrafine Aerosol Particles
	a University in Zlin, Czech Republic	Clogging in Nanofiber Based Filter
16:50 End of the	conference	

Partners



