Tomas Bata University in Zlín
Faculty of Technology

Novel trends in rheology III

PROGRAMME

July 28, 2009

Time	Event	Presentation Title
7:00-7:55	Registration	
7:55-8:10	Welcome	
	(Chairmen: Martin Zatloukal)	CONSTITUTIVE EQUATIONS
8:10-9:00	Manfred Wagner *TU Berlin, Germany*	Recent Advances in Constitutive Modeling of Polymer Melts
9:00-9:30	Víctor Hugo Rolón-Garrido *TU Berlin, Germany*	Rheological Characterization and Constitutive Modeling of Two LDPE Melts
9:30-10:00	Cofee break & Exhibition	
	(Chairmen: Manfred Wagner)	NOVEL RHEOLOGICAL TECHNIQUES
10:00-10:30	Adrian Kelly *University of Bradford, UK*	High Strain Rate Rheology of Polymer Melts
10:30-11:00	Zdenek Stary *FAU Erlangen-Nuremberg, Germany*	The Role of Homogeneity of Deformation in the Measurements of Elongational Viscosity
11:00-11:30	Martin Zatloukal *Tomas Bata University in Zlin, Czech Republic*	Development of Novel Orifice Die Design for Precise Entrance Pressure Drop Measurements
11:30-13:00	Lunch & Exhibition	
	(Chairmen: Mike Martyn)	NOVEL RHEOLOGICAL TECHNIQUES
13:00-13:30	Susana Filipe *Borealis Polyolefine, Austria*	Non-Linear Rheology of Polymer Melts
13:30-14:00	Miguel Nobrega *University of Minho, Portugal*	Recent Developments on on-line Rheometry to Monitor the Extrusion Process
14:00-14:30	Joachim Sunder *GÖTTFERT Werkstoff-Prüfmaschinen, Germany*	Fourier Transformation Analysis In Capillary Flow - A New Option To Detect Flow Instabilities (Shark Skin)
14:30-15:00	Cofee break & Exhibition	
	(Chairmen: Petr Filip)	NOVEL RHEOLOGICAL TECHNIQUES
15:00-15:30	Ondrej Wein *ICPF ASCR, Czech Republic*	Diagnostics Of Apparent Wall Slip In Aqueous Polymer Solutions
15:30-16:00	Torsten Remmler *Malvern, Germany*	Characterization of Microstructure and Molecular Dynamics with High Frequency Oscillatory Techniques
18:30	Conference dinner	

Partners:

TA AMEDIS

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Anton Paar

Malvern

ANAMET ANALYTICAL & MEASURING & TESTING

Thermo SCIENTIFIC

pragolab laboratorní přístroje a zařízení

July 29, 2009

	(Chairmen: Ondrej Wein)	NON-NEWTONIAN FLUID MECHANICS
8:00-8:30	Mike Martyn *University of Bradford, United Kingdom*	Visualization of Polymer Melt Flow in Complex Geometries
8:30-9:00	Ivan Machac *University of Pardubice, Czech Republic*	Wall Effects On A Single Spherical Particle Moving Through A Carreau Model Fluid
9:00-9:30	Petr Filip *Institute of Hydrodynamics ASCR, Czech Republic*	Quasisimilarity of Helical Power-Law Fluid Flow in Concentric Annuli
9:30-10:30	Cofee break & Poster section & Exhibition	
	Alexander Kharlamov *Institute of Hydrodynamics ASCR, Czech Republic*	A Remark to the Tube Theory
	Alexander Sury *University of Pardubice, Czech Republic*	Cake Filtration In Viscoelastic Polymer Solutions
	Jaroslav Strnadel *University of Pardubice, Czech Republic*	Fall of Spherical Particles in Viscoelastic Fluids
	Jan Musil *Tomas Bata University in Zlin, Czech Republic*	Investigation of Internal Die Drool Phenomenon for Different HDPEs
	Michal Stanek *Tomas Bata University in Zlin, Czech Republic*	Mold Cavity Roughness vs. Flow of Polymer
	Robert Olejnik *Tomas Bata University in Zlin, Czech Republic*	Characterization of Carbon Nanotube Based Polymer Composites Through Rheology
	Niladri Roy *Tomas Bata University in Zlin, Czech Republic*	Importance of Viscoelastic Property Measurement of a New Hydrogel for Health Care
	Lucie Marcanikova *Tomas Bata University in Zlin, Czech Republic*	Rheological Behavior of Composites Based on Carbon Fibers Recycled from Aircraft Waste
	Roman Kolarik *Tomas Bata University in Zlin, Czech Republic*	Modeling Of Non-Isothermal Film Blowing Process For Polyolefines By Using Variational Principles
	Pavel Kubik *Tomas Bata University in Zlin, Czech Republic*	3D Simulation Of The Fluted Mixer Element Behavior
	Dietmar Böttner *TI Automotive (Fuldabrück) GmbH, Germany*	Coextrusion Flow Analysis for a Multilayer Plastic Fuel Line Die
	Dusan Kimmer *SPUR a.s., Czech Republic*	Investigation Of Polyurethane Electrospinning Process Efficiency
	Wannes Sambaer *Tomas Bata University in Zlin, Czech Republic*	The Use of Digital Image Analysis and Rheological Tools to Characterize Nanofiber Based Textiles
	(Chairmen: Miguel Nobrega)	INTRODUCTION OF NOVEL RHEOLOGICAL TOOLS
10:30-10:50	Michael Ringhofer *Anton Paar, GmbH, Austria*	Additional Modules and Combined Measuring Methods for the Rheological Characterization of Polymers
10:50-11:10	Massimo Baiardo *TA Instruments, USA*	Advantages and applications for separated motor and transducer rheometers
11:10-11:30	Torsten Remmler *Malvern, Germany*	More Rheology, Less Effort. The Concept of the New Malvern Kinexus Rheometer
11:30-11:50	Ansgar Frendel *Thermo Fisher Scientific, Germany*	The MARS Factor in Rheology – New Nano-Torque Capabilities
11:50-13:30	Lunch & Exhibition	
	(Chairmen: Jiri Vlcek)	MODELING OF POLYMER PROCESSING
13:30-14:00	Miguel Nobrega *University of Minho, Portugal*	Profile Extrusion Dies: The Effect of Machining Inaccuracies on Flow Balance and Its Dependence on the Design Strategy Used
14:00-14:30	Jiri Vlcek *Compuplast International, Czech Republic*	Simulation Of Screws For Injection Molding
14:30-15:00	Frederik Desplentere *Katholieke Hogeschool Brugge – Oostende, Belgium*	Stochastic Flow Modeling for Resin Transfer Moulding
15:00-15:30	Refreshment & Exhibition	
	(Chairmen: Ivan Machac)	RHEOLOGY OF BLENDS AND RUBBERS
15:30-16:00	Ivan Fortelny *Institute of Macromolecular Chemistry ASCR, Czech*	Microrheological Description Of The Phase Structure Evolution In Polymer Blends. State Of Art And Open Problems
16:00-16:30	Zdenek Stary *FAU Erlangen-Nuremberg, Germany*	Morphology Development in Polymer Blends Under Uniaxial Elongation
16:30-17:00	Refreshment & Exhibition	