



**PROGRAMME**

**July 28, 2009**

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

**Partners:**



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(Chairmen: Ondrej Wein)

NON-NEWTONIAN FLUID MECHANICS

8:00-8:30	Mike Martyn <i>University of Bradford, United Kingdom</i>	Visualization of Polymer Melt Flow in Complex Geometries
8:30-9:00	Ivan Machac <i>University of Pardubice, Czech Republic</i>	Wall Effects On A Single Spherical Particle Moving Through A Carreau Model Fluid
9:00-9:30	Petr Filip <i>Institute of Hydrodynamics ASCR, Czech Republic</i>	Quasisimilarity of Helical Power-Law Fluid Flow in Concentric Annuli
9:30-10:30	Coffee break & Poster section & Exhibition	
	Alexander Kharlamov <i>Institute of Hydrodynamics ASCR, Czech Republic</i>	A Remark to the Tube Theory
	Alexander Sury <i>University of Pardubice, Czech Republic</i>	Cake Filtration In Viscoelastic Polymer Solutions
	Jaroslav Strnadel <i>University of Pardubice, Czech Republic</i>	Fall of Spherical Particles in Viscoelastic Fluids
	Jan Musil <i>Tomas Bata University in Zlin, Czech Republic</i>	Investigation of Internal Die Drool Phenomenon for Different HDPEs
	Michal Stanek <i>Tomas Bata University in Zlin, Czech Republic</i>	Mold Cavity Roughness vs. Flow of Polymer
	Robert Olejnik <i>Tomas Bata University in Zlin, Czech Republic</i>	Characterization of Carbon Nanotube Based Polymer Composites Through Rheology
	Niladri Roy <i>Tomas Bata University in Zlin, Czech Republic</i>	Importance of Viscoelastic Property Measurement of a New Hydrogel for Health Care
	Lucie Marcanikova <i>Tomas Bata University in Zlin, Czech Republic</i>	Rheological Behavior of Composites Based on Carbon Fibers Recycled from Aircraft Waste
	Roman Kolarik <i>Tomas Bata University in Zlin, Czech Republic</i>	Modeling Of Non-Isothermal Film Blowing Process For Polyolefines By Using Variational Principles
	Pavel Kubik <i>Tomas Bata University in Zlin, Czech Republic</i>	3D Simulation Of The Fluted Mixer Element Behavior
	Dietmar Böttner <i>TI Automotive (Fuldabrück) GmbH, Germany</i>	Coextrusion Flow Analysis for a Multilayer Plastic Fuel Line Die
	Dusan Kimmer <i>SPUR a.s., Czech Republic</i>	Investigation Of Polyurethane Electrospinning Process Efficiency
	Wannes Sambaer <i>Tomas Bata University in Zlin, Czech Republic</i>	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 <i>Anton Paar, GmbH, Austria</i>	Additional Modules and Combined Measuring Methods for the Rheological Characterization of Polymers
10:50-11:10	Massimo Baiardo <i>TA Instruments, USA</i>	Advantages and applications for separated motor and transducer rheometers
11:10-11:30	Torsten Remmler <i>Malvern, Germany</i>	More Rheology, Less Effort. The Concept of the New Malvern Kinexus Rheometer
11:30-11:50	Ansgar Frendel <i>Thermo Fisher Scientific, Germany</i>	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 <i>University of Minho, Portugal</i>	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 <i>Compuplast International, Czech Republic</i>	Simulation Of Screws For Injection Molding
14:30-15:00	Frederik Desplentere <i>Katholieke Hogeschool Brugge – Oostende, Belgium</i>	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 <i>Institute of Macromolecular Chemistry ASCR, Czech</i>	Microrheological Description Of The Phase Structure Evolution In Polymer Blends. State Of Art And Open Problems
16:00-16:30	Zdenek Stary <i>FAU Erlangen-Nuremberg, Germany</i>	Morphology Development in Polymer Blends Under Uniaxial Elongation
16:30-17:00	Refreshment & Exhibition	