



## 🚺 Tomas Bata Universitγ in Zlín



## **NOVEL TRENDS IN RHEOLOGY IV PROGRAMME**

July 27, 2011		
Time	Event	Presentation Title
7:00-8:20	Registration	
8:20-8:30	Welcome	
	(Chairmen: Helmut Münstedt)	NON-NEWTONIAN FLUID MECHANICS
8:30-9:00	Manfred H. Wagner TU Berlin, Germany	Probing Nonlinear Viscoelasticity of Polymer Melts by Medium Amplitude Oscillatory Shear (MAOS)
9:00-9:30	Jan Musil Tomas Bata University in Zlin, Czech Republic	Experimental Investigation of Die Drool and Slip-stick Phenomena during HDPE Polymer Melt Extrusion
9:30-10:00	Cofee break & Exhibition	
	(Chairmen: Víctor Hugo Rolón-Garrido)	NOVEL RHEOLOGICAL TECHNIQUES
10:00-10:30	Ondřej Wein ICPF ASCR, Czech Republic	AWS Viscometry – Principles and Applications
10:30-11:00	João Miguel Nóbrega University of Minho, Portugal	On-line Rheometry: A Tool to Monitor Polymer Nanocomposites Production
11:00-11:30	Martin Zatloukal Tomas Bata University in Zlin, Czech Republic	Planar Extensional Viscosity Measurements for LDPE Polymer Melt by Using Novel Orifice Die Design and Cogswell Model
11:30-13:00	Lunch & Exhibition	
	(Chairmen: João Miguel Nóbrega)	RHEOLOGY OF POLYMERS, COMPOSITES AND BLENDS
13:00-13:30	Víctor Hugo Rolón-Garrido TU Berlin, Germany	Increase of Long-chain Branching by Thermo-oxidative Treatment of LDPE
13:30-14:00	Zdeněk Starý FAU Erlangen-Nuremberg, Germany	Behavior of Conductive Particle Networks in Polymer Melts under Deformation
14:00-14:30	Ana Vera Machado University of Minho, Portugal	Phase Inversion of EPDM/PP Blends: Effect of Viscosity Ratio
14:30-15:00	Cofee break & Exhibition	
	(Chairmen: Petr Filip)	NON-NEWTONIAN FLUID MECHANICS
15:00-15:30	Jiri Vlcek Compuplast International, Inc., Czech Republic	Interfacial Instabilities in a Two Layer Coextrusion during Cable Coating
15:30-16:00	Pavel Kubik Tomas Bata University in Zlin, Czech Republic	An Evaluation of Mixing Quality of Three Different Types of Mixing Elements
18:30	Conference dinner	

## Partners:







	(Chairmen: Manfred H. Wagner)	NON-NEWTONIAN FLUID MECHANICS
8:00-8:30	Helmut Münstedt Friedrich-Alexander-University Erlangen-Nürnberg, Germany	Elastic Properties of Polymer Melts Filled with Nanoparticles
8:30-9:00	Milan Kracalik  Montanuniversitaet Leoben, Austria	Extensional Rheology as Effective Tool for Characterization of Polymer Nanocomposites
9:00-9:30	Petr Filip Institute of Hydrodynamics ASCR, Czech Republic	Invariance of Elongational Viscosity Measurements Using SER Univers Testing Platform with Respect to Rectangular Shapes of Polymer Samples
9:30-10:30	Cofee break & Poster section & Exhibition	
	Alexander Kharlamov Institute of Hydrodynamics ASCR, Czech Republic	On the Approximation of the Generalised Stretch Function
	Jan Musil Tomas Bata University in Zlin, Czech Republic	Investigation of Vortex Development during Polymer Melt Flows by Flow Birefringence
	Pongprapat Piyamanocha Tomas Bata University in Zlin, Czech Republic	On Pressure Affected Shear Viscosity of Poly(Lactic) Acid
	Hossein Ali Khonakdar Leibniz Institute of Polymer Research Dresden, Germany	Partial Restoring of Thermorheological Simplicity and Terminal Dynami Behavior of PEO/PMMA in the Presence of Nanoparticles
	Petr Slobodian Tomas Bata University in Zlin, Czech Republic	Stress-strain Hysteresis of a Carbon Nanotube Network as Polymer Nanocomposite Filler under Cyclic Deformation
	Aleš Obr SILON s.r.o, Czech Republic	Effect of Fluoropolymer Antidripping Agent on Rheological Behavior of LLDPE
	Niladri Roy Tomas Bata University in Zlin, Czech Republic	Effect of Strain on Viscoelastic Behavior of PVP-CMC Based Medicate Hydrogels
	Lenka Jelínková Tomas Bata University in Zlin, Czech Republic	Viscoelastic Properties and Morphology of Mumio-based Medicated Hydrogels
	Shawqi Almajdalawi Tomas Bata University in Zlin, Czech Republic	Electrorheological Properties of Suspensions of Polypyrrole Ribbon Particles in Silicone Oil
	Michal Sedlacik Tomas Bata University in Zlin, Czech Republic	Core-shell Structured Polypyrrole-coated Magnetic Carbonyl Iron Microparticles and their Magnetorheology
	Frederik Desplentere KHBO University College, Belgium	Linear Elastic Behaviour of Complex Polyurethane Foams
	Vladimír Pavlínek Tomas Bata University in Zlin, Czech Republic	The Effect of PVAc Solution Viscosity on Diameter of PVAc Nanofibres Prepared by Technology of Electrospinning
	(Chairmen: Zdeněk Starý)	INTRODUCTION OF NOVEL RHEOLOGICAL TOOLS
10:30-11:00	Torsten Remmler Malvern Instruments GmbH, Germany	Analytical Instrumentation from Malvern Instruments to Analyse Polyme Samples
11:00-11:30	Bernd Jakob Thermo Fisher Scientific, Germany	Advances in Small Scale Processing Equipment for Polymers and Additives
11:30-13:00	Lunch & Exhibition	
	(Chairmen: Jiri Vlcek)	NON-NEWTONIAN FLUID MECHANICS
13:00-13:30	Alexander Vikhansky University of London, UK	Modelling of Polymer Flows by Lattice-Boltzmann Method
13:30-14:00	Roman Kolarik Tomas Bata University in Zlin, Czech Republic	Variational Principle Based Stability Analysis of Non-isothermal Film Blowing Process for Non-Newtonian Fluids
14:00-14:30	Ivan Machač University of Pardubice, Czech Republic	Flow of Viscoelastic Polymer Solutions through Filter Screens
14:30-15:00	Refreshment & Exhibition	
	(Chairmen: Martin Zatoukal)	APPLIED RHEOLOGY FOR POLYMER NANOFIBERS
15:00-15:30	Dusan Kimmer SPUR a.s., Czech Republic	Morphology of Nano and Micro Fiber Structures in Ultrafine Particles Filtration
15:30-16:00	Wannes Sambaer Tomas Bata University in Zlin, Czech Republic	3D Air Filtration Modeling for Nanofiber Based Filters in the Ultrafine Particle Size Range
16:00	End of the conference	

## Partners:





