







NOVEL TRENDS IN RHEOLOGY VIII PROGRAMME

July 30, 201	9	
Time	Event	Presentation Title
7:00-8:20	Registration	
8:20-8:30	Welcome	
	(Chairman: José Covas)	APPLIED RHEOLOGY I
8:30-9:00	Helmut Münstedt Friedrich-Alexander University Erlangen-Nürnberg, Germany	Elastic Behavior and Processing of Polymer Melts
9:00-9:30	Martin Zatloukal Tomas Bata University in Zlin, Czech Republic	Influence of Long Chain Branching on Fiber Diameter Distribution for Polypropylene Nonwovens Produced by Melt Blown Process
9:30-10:00	Cofee break & Exhibition	
	(Chairman: Helmut Münstedt)	APPLIED RHEOLOGY II
10:00-10:30	Masayuki Yamaguchi Japan Advanced Institute of Science and Technology, Japan	Strain-Hardening Behavior in Elongational Viscosity of Polyolefin Blends
10:30-11:00	Masayuki Yamaguchi Japan Advanced Institute of Science and Technology, Japan	Effect of Flow Field on Structure and Properties for Polycarbonate Blends
11:00-11:30	José Covas University of Minho, Portugal	In-Process Rheological Measurements During the Manufacture of Multiphase Polymer Systems
11:30-12:00	Dietmar Auhl Berlin Institute of Technology (TU Berlin), Germany	3D-Printing Quality in Relation to Melt Flow and Fusion Behavior of Polymer Materials
12:00-13:30	Lunch & Exhibition	
	(Chairman: Paula Marie Wood-Adams)	NOVEL RHEOLOGICAL TECHNIQUES I
13:30-14:00	Vitor Barroso Borealis Polyolefine GmbH, Austria	Rheological Methods for the Characterization of Viscoelasticity in Industrial Polymers
14:00-14:30	Frederik Desplentere KU Leuven, Belgium	Advanced Rheological Characterisation for Thermal Sensitive Materials Using Shear Heating Device
14:30-15:00	Cofee break & Exhibition	
	(Chairman: Donggang Yao)	NOVEL RHEOLOGICAL TECHNIQUES II
15:00-15:30	Alan Jeffrey Giacomin Queen's University, Canada	Continuum Mechanics of Shear Stress Growth
15:30-16:00	Paula Marie Wood-Adams Concordia University, Canada	Interdiffusion Dynamics at the Interface between two Polystyrenes with Different Molecular Weight Probed by a Rheological Tool
18:30	Conference dinner	

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Conference programme:

http://noveltrends8.ft.utb.cz/programme.html





	(Chairman: Jeffrey Giacomin)	CONSTITUTIVE EQUATIONS
8:00-8:30	Vít Průša Charles University in Prague, Czech Republic	On Diffusive Variants of Some Classical Viscoelastic Rate-Type Mode
8:30-9:00	Donggang Yao School of Materials Science & Engineering, Georgia Institute of Technology, Atlanta, Georgia, USA	A Framework for Nonlinear Viscoelasticity on the Basis of Logarithmic Strain and Projected Velocity Gradient
9:00-10:30	Cofee break & Poster section & Exhibition	
	Riho Nishikawa Japan Advanced Institute of Science and Technology, Japan	Effect of Carbon Nanotube Addition on Molecular Orientation of Polyethylene
	Riza Saari Japan Advanced Institute of Science and Technology, Japan	Effect of Metal Salt Incorporation on Structure and Properties for Poly(Vinyl Alcohol)
	Jiri Smilek Brno University of Technology, Czech Republic	Study on Viscoelastic Properties of Phase-Separated Hydrogels by Time-Temperature Superposition Principle
	Dusan Kimmer SPUR a.s., Czech Republic	Nanostructures for Air Filtration. Filtration Properties in Range of Maximum Penetrating Particle Sizes
	Petra Peer Institute of Hydrodynamics ASCR, Czech Republic	Electrospinning of Poly(ethylene oxide) Solutions - Quantitative Relations between Mean Nanofibre Diameter, Concentration, Molecula Weight, and Viscosity
	Jana Zelenkova Institute of Hydrodynamics ASCR, Czech Republic	Approximate Functions Relating Specific Viscosity of PEO in DMSO v Concentration Respecting Intrinsic Viscosity for Low Concentrations
	Petr Filip Institute of Hydrodynamics ASCR, Czech Republic	Wall Slip of Highly Filled Powder Injection Moulding Compounds in Dependence on Capillary Die Geometry
	Patrik Macúrik Slovak University of Technology, Slovak Republic	Measuring Techniques of Rheological Properties of Rubber Blends fro Industry
	Martina Nevoralová Institute of Macromolecular Chemistry ASCR, Czech Republic	Rheological Characterization of Starch-based Biodegradable Polymer Blends
	Jan Musil Tomas Bata University in Zlin, Czech Republic	Historical Notes on Flow Visualization in Polymer Melt Processing
	Jiri Drabek Tomas Bata University in Zlin, Czech Republic	Effect of Molecular Weight and Extensional Rheology on Melt Blown Process Stability for Linear Isotactic Polypropylenes
	Tomas Barborik Tomas Bata University in Zlin, Czech Republic	The Effect of Heat Transfer Coefficient on Crystalline Phase Development During Production of Casted Film
	Mehmet Ayas Czech Technical University in Prague, Czech Republic	Mixing of a Viscoplastic Fluid in an In-Line Mixer
	Josef Jůza Institute of Macromolecular Chemistry ASCR, Czech Republic	Surface Tension Measurement: Attempt to Combine Pendant Drop are Deformed Drop Retraction Methods
	Milan Kracalik Johannes Kepler University Linz, Austria	Different Approaches for Calculation of Cumulative Storage Factor as Novel Parameter for Analysis of Reinforcement in Complex Polymer Nanocomposites
	(Chairman: Roland Kádár)	INTRODUCTION OF NOVEL RHEOLOGICAL TOOLS
0:30-11:00	Lukas Schwab Waters GmbH, TA Instruments, Germany	Combined rheo-Raman Analysis: Correlating Viscoelastic Behavior with Chemical Structure
1:00-11:30	Ansgar Frendel Thermo Fisher Scientific, Germany	Processing Studies on Rubber Mixtures with Different Types of Carbo Black by Extrusion with Torque Rheometer Method
1:30-12:00	Michal Bartik Anton Paar, Czech Republic	The New Anton Paar MCR 702 MultiDrive - the Versatile Platform for Rheology and Dynamic Mechanical Analysis (DMA)
2:00-13:30	Lunch & Exhibition	
	(Chairman: Frederik Desplentere)	RHEOLOGY OF POLYMER BLENDS AND COMPOSITES
3:30-14:00	Roland Kádár Chalmers University of Technology, Sweden	Evidence of Percolated Network at the Linear - Nonlinear Transition in Oscillatory Shear
4:00-14:30	Zdeněk Starý	Rheology and Structure of Immiscible Polymer Blends Filled with

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