

Monday, May 26

Tuesday, May 27

Wednesday, May 28

08:15	<i>Breakfast</i>	08:15	<i>Breakfast</i>	08:15	<i>Breakfast</i>
Chairperson: M. Grenzer-Saphiannikova		Chairperson: S. Govindjee		Chairperson: S. Reese	
09:00	<b>Gert Heinrich</b> Opening Why do we need a well-grounded understanding of the reinforcements in polymers?	09:00	<b>Stefanie Reese</b> Finite element micro-field simulation illustrating the effect of micro-structure morphology on stress softening in filled elastomer networks	09:00	<b>Sanjay Govindjee</b> A micro-mechanically based continuum for strain-induced crystallization in natural rubber
09:30	<b>Helmut Münstedt</b> Rheological behaviour of particle-filled polymer melts	09:30	<b>Manfred Klüppel</b> The role of polymer confinement between filler particles in rubber reinforcement	09:30	<b>Karsten Brüning</b> Kinetics of self-reinforcement of natural rubber by strain-induced crystallization: An X-ray diffraction approach
10:00	<b>Alexander Chervanyov</b> Effects of polymer-mediated interactions on the coagulation-fragmentation of fillers in the presence of shear flow	10:00	<b>Francois Lequeux</b> Mechanical non linearity of elastomers in the glass transition domain	09:50	<b>Toshio Tada</b> Stress relaxation behavior of carbon black filled rubber under uni- and biaxial stretching
				10:10	<b>Stanard M. Pachong</b> Density fluctuation of reversible cross-links in permanent networks
10:30	<i>Break</i>	10:30	<i>Break</i>	10:30	<i>Break</i>
Chairperson: M. Grenzer-Saphiannikova		Chairperson: J. L. Valentin		Chairperson: J. Busfield	
11:00	<b>Philippe Cassagnau</b> Viscoelasticity and dynamics of suspensions	11:00	<b>Françoise Ehrburger-Dolle</b> Stress relaxation in strained filled elastomers	11:00	<b>Stephan Westermann</b> Matrix chain deformation in reinforced networks - a SANS approach
11:30	<b>Julien Férec</b> Rheological modeling of rod suspensions with interactions: from particles to macroscopic behavior	11:30	<b>Kay Saalwächter</b> Filler effects on segmental dynamics and local chain deformation in elastomers: Insights from NMR	11:20	<b>Juan L. Valentin</b> Evaluation of structure of rubber (nano)composites by time-domain NMRn
12:00	<b>Vladimir Toshchevikov</b> Relaxation spectrum of a polymer network with included particles: a regular cubic network model	12:00	<b>Wim Pyckhout-Hintzen</b> Investigations of supramolecular interactions in polymer networks with neutron scattering	11:40	<b>Marina Grenzer-Saphiannikova</b> Approaches to hydrodynamic reinforcement in polymer melts and networks
12:30	<i>Lunch</i>	12:30	<i>Lunch</i>	12:00	<i>Lunch</i>

Chairperson: F. Ehrburger-Dolle		Chairperson: G. Heinrich	
13:30	<b>Paul Sotta</b> Discriminating entropic and non-entropic contributions to elastomer reinforcement	13:30	<b>Michael Rubinstein</b> Nanoparticle dynamics in polymer melts and networks
14:00	<b>Arnaud Vieyres</b> Strain amplification phenomenon in reinforced natural rubber	14:00	<b>Kristian K. Müller-Nedebock</b> Modelling reversible and irreversible polymer networks with variable functionality for reinforcement
14:30	<b>James Busfield</b> Rubber reinforcement at small strains	14:30	<b>Jens-Uwe Sommer</b> Effective interactions of nanoparticles in polymer matrices
15:00	<i>Break</i>	15:00	<i>Break</i>
Chairperson: M. Klüppel		16:00	Sightseeing
15:30	<b>Amit Das</b> Rubber reinforcement by nanoparticles: Preparation and properties	19:39	Conference Dinner
16:00	<b>Wilma Dierkes</b> The influence of non-rubber constituents on the reinforcement of natural rubber by a silica/silane filler system		
16:20	<b>Caroline Fayolle</b> Temperature dependence of the linear and non-linear mechanical response of elastomer nanocomposites		
16:40	<b>Lewis Tunnicliffe</b> Carbon black flocculation effects in natural rubber		
17:00	<i>Break</i>		
17:20	Poster Discussion		
18:30	Dinner		