

International Conference “Polymeric Materials 2010”

Halle (Saale), September 15 – 17, 2010

P.2010

PROGRAM

SYMPOSIA:

- Polymer Engineering
- Polymer Chemistry
- Polymer Physics

SPECIAL SYMPOSIUM:

- Polymers in Energy Engineering

	Symposium Polymer Engineering	Symposium Polymer Chemistry	Symposium Polymer Physics	Special Symposium Polymers in Energy Engineering
T O P I C S	<i>Polymer Processing and Rheology</i>	<i>Synthesis and Characterization</i>	<i>Theory & Modelling</i>	<i>Polymers for Energy Transportation</i>
	<i>Advanced Polymer Materials & Applications</i>	<i>Biobased Polymers</i>	<i>Polymer Dynamics</i>	<i>Polymers for Energy Storage</i>
	<i>Polymer Blends & Nanocomposites</i>	<i>Polymers in Biomedical Application</i>	<i>Novel Experimental Techniques</i>	<i>Polymers for Regenerative Energy Production</i>
	<i>Polymer Properties, Testing and Characterization</i>	<i>Modification & Interfaces</i>	<i>Structure & Morphology</i>	<i>Polymers for Advanced Batteries</i>

P.2010**Wednesday, September 15, 2010**

ROOM	Foyer AudiMax
8:00 - 9:30	Registration
ROOM	AudiMax
9:30 - 10:00	Conference Opening <i>Conference Chairman</i> <i>Rektor</i> <i>Kulturminister / Wirtschaftsminister</i>
	Plenary Session I
10:00 - 11:00	PL1 Manas-Zloczower, I. <i>Cleveland, USA</i> Fundamentals of fine particle mixing in polymers
11:00 - 12:00	PL2 Lendlein, A.; Behl, M. <i>Teltow and Berlin, Germany</i> Actively moving polymers
12:00 - 13:00	Lunch Break

ROOM	AudiMax	Room XXII	Room XXIII
SYMPOSIUM	Symposium Polymer Engineering	Symposium Polymer Chemistry	Symposium Polymer Physics
SESSION	Polymer Processing and Rheology	Synthesis and Characterization	Theory & Modelling
13:00 - 13:30	KL T1 Wortberg, J.; Gorczyca, P.; Großmann, M. <i>Duisburg, Germany</i> Advanced performance of single screw extruders: High speed and alternative extrusion concepts	KL C1 Barner-Kowollik, C.; Inglis, A.J.; Nebhani, L.; Blinco, J.; Paulöhr, T.; Glassner, M. <i>Karlsruhe, Germany</i> Constructing functional materials via (reversible) diels-alder chemistry	KL P1 Meyer, H.; Wittmer, J.P.; Johner, A.; Obukhov, S.P.; Farago, J.; Baschnagel, J. <i>Strasbourg, France; Gainesville, USA</i> 60 years after Flory's ideality hypothesis: Are polymer chains in a melt really ideal?

13:30 - 13:50	SL T1 Schöppner, V.; Weddige, R. <i>Paderborn, Germany</i> Using pressure dependent viscosity for improving the temperature calculation of single screw extruders	SL C1 Ebeling, B.; Rotzoll, R.; Samwer, K.; Schütz, J.-H.; Schwabe, M.; Vana, P. <i>Göttingen, Germany</i> Polymer material design via topological control using RAFT polymerization	SL P1 Lorenz, H.; Klüppel, M.; Heinrich, G. <i>Hannover and Dresden, Germany</i> Microstructure-based modelling and FE implementation of filler-induced stress softening and hysteresis of reinforced rubbers
13:50 - 14:10	SL T2 Schnabel, A. <i>Montabauer, Germany</i> Calendar lines inline-control of materials data by process viscometer	SL C2 Laschewsky, A.; Zehm, D. <i>Potsdam-Golm, Germany</i> From macro surfactants to „giant“ surfactants: Design and self-assembly of amphiphilic dual brush block copolymers	SL P2 Sommer, J.-U.; Dockhorn, R.; Freudenberg, U.; Welzel, P.B.; Levental, K.; Werner, C. <i>Dresden, Germany</i> Swelling behavior of a new class of biohybrid networks
14:10 - 14:30	SL T3 Jakob, B. <i>Karlsruhe, Germany</i> Verarbeitung und Prüfung kleinster Mengen von Kunststoffen und Additiven	SL C3 Böker, A.; Schoberth, H.; Olszowka, V.; Hund, M.; Schmidt, K. <i>Aachen and Bayreuth, Germany; Santa Barbara, USA</i> Effects of electric fields on block copolymer nanostructures	SL P3 Böhning, M.; Hölck, O.; Heuchel, M.; Hofmann, D. <i>Berlin and Teltow, Germany</i> Characterization of gas sorption in glassy polymers using experimental and molecular modeling techniques
14:30 - 14:50	SL T4 Sukiennik, M.; Płocharski, J. <i>Warsaw, Poland</i> Viscoelastic behavior of polymer based electrorheological fluids	SL C4 Pulamagatta, B.; Yau, M.Y.E.; Gunkel, I.; Thurn-Albrecht, T.; Schröter, K.; Pfefferkorn, D.; Kressler, J.; Steinhart, M.; Binder, W.H. <i>Halle and Osnabrück, Germany</i> Block copolymer nanotubes by melt-infiltration of nanoporous aluminum oxide	SL P4 Yelash, L.; Virnau, P.; Paul, W.; Binder, K. <i>Mainz and Halle, Germany</i> Atomistic molecular dynamics simulations of polybutadiene at graphite: Slowing down in confinement vs. bulk system
14:50 - 15:30	Coffee Break & Poster Session I <i>Löwengebäude</i>		
ROOM	AudiMax	Room XXII	Room XXIII
SYMPOSIUM	Symposium Polymer Engineering	Symposium Polymer Engineering	Symposium Polymer Physics
SESSION	Polymer Processing and Rheology	Polymer Blends & Composites	Novel Experimental Techniques
15:30 - 15:50	SL T5 Wagenknecht, U.; Gohs, U.; Leuteritz, A.; Naskar, K.; Thakur, V.; Wiessner, S.; Zszech, C.; Heinrich, G. ; Dresden, Germany Electron induced reactive processing versus peroxide induced reactive processing – a general overview	SL T11 Hristov, V.; Pham, T. <i>Linz, Austria</i> Morphology development of polypropylene elastomer blends: From compounding to injection moulding	SL P5 König, T.; Santer, S. <i>Potsdam, Germany</i> Reversible structuring of photosensitive polymer films by surface plasmons

15:50 - 16:10	<p>SL T6 Albring, E.; Funke, C.; Moritzer, E. <i>Paderborn, Germany</i> Phänomene beim Füllverhalten von Wood-Plastics Composites (WPC) im Spritzgießprozess</p>	<p>SL T12 Moyo, S.L.; Heidenreich, D.; Focke, W.W.; Labuschagne, F.J.W.; Radusch, H.-J. <i>Pretoria, South Africa; Halle, Germany</i> The effect of matrix polarity on the properties of LDH-stearate polymer composites</p>	<p>SL P6 Franz, C.; Ok, S.; Vaca Chávez, F.; Steinhart, M.; Saalwächter, K. <i>Halle and Osnabrück, Germany</i> Chain dynamics of polymers confined to ordered nanoporous alumina membranes</p>
16:10 - 16:30	<p>SL T7 Wolff, F.; Zirkel, L.; Betzold, S.; Maier, V.; Nachtrab, F.; Münstedt, H. <i>Erlangen and Fürth, Germany</i> Physical foaming of advanced polymer materials</p>	<p>SL T13 Kutlu, B.; Leuteritz, A.; Wagenknecht, U.; Heinrich, G. <i>Dresden, Germany</i> Filler design for layered double hydroxyde nanocomposites</p>	<p>SL P7 Rätzke, K.; Faupel, F. <i>Kiel, Germany</i> Free volume in high free volume polymeric membranes investigated by positron annihilation lifetime spectroscopy</p>
16:30 - 16:50	<p>SL T8 Stieler, U. <i>Goslar, Germany</i> Physical foaming with the Stieler SmartFoam® system</p>	<p>SL T14 Hudec, I. <i>Bratislava, Slovakia</i> Modification of reinforcing materials by plasma</p>	<p>SL P8 Zankel, A.; Reingruber, H.; Schoßig, M.; Nase, M.; Poelt, P.; Grellmann, W. <i>Graz, Austria; Merseburg, Weißandt-Görlau and Halle, Germany</i> In situ characterization of polymers in the ESEM, even enabling new hybrid testing methods</p>
16:50 - 17:10	<p>SL T9 Neuber, M.; Hanke, T.; Lucas, J.; Heilmann, A. <i>Halle, Germany</i> Laser welding of ethylene tetrafluoroethylene (ETFE) foils by using metal nanoparticles as absorber layer</p>	<p>SL T15 Topp, M.; Heise, J.; Steuernagel, L.; Ziegmann, G. <i>Clausthal-Zellerfeld, Germany</i> Interaction of cellulose / polypropylene-composites with solvents and solvent systems</p>	<p>SL P9 Fischer, D.; Müller, J.; Kummer, S.; Kretzschmar, B. <i>Dresden, Germany</i> Real time determination of morphologic and mechanical properties of polymer nanocomposites during extrusion by spectroscopic and ultrasonic methods</p>
17:10 - 17:30	<p>SL T10 Bach, S.; Thürling, K.; Majschak, J.-P. <i>Dresden, Germany</i> Analysis and modeling of the heating and sealing behavior of polymer films during ultrasonic sealing</p>	<p>SL T16 Pabisch, S.; Feichtenschlager, B.; Sajjad, M.; Koch, T.; Seidler, S.; Kickelbick, B.; Peterlik, H. <i>Wien, Austria ; Saarbrücken, Germany</i> Influence of surface-functionalized nanoparticles on the structural properties of polymer nanocomposites</p>	<p>SL P10 Dlubek, G.; Shaikh, M.Q.; Yu, Y.; Pionteck, J.; Paluch, M.; Rätzke, K.; Faupel, F.; Krause-Rehberg, R. <i>Halle, Kiel and Dresden, Germany; Katowice, Poland</i> From small molecules to polymers: The free volume from PALS and PVT experiments in relation to the dynamics</p>
17:30 - 18:30	<p>Poster Session II Löwengebäude</p>		
19:00	<p>Welcome Moritzburg Halle, Friedemann-Bach-Platz</p>		

P.2010

Thursday, September 16, 2010

ROOM	AudiMax
	Plenary Session
9:00 – 10:00	<p>PL 3 Klapper, M.; Weil, T.; Müllen, K. <i>Mainz, Germany</i> Macromolecules, Assemblies, Particles – A Discovery Journey in Materials Synthesis</p>

ROOM	AudiMax	Room XXII	Room XXIII
SYMPOSIUM	Symposium Polymer Engineering	Symposium Polymer Chemistry	Symposium Polymer Physics
SESSION	Advanced Polymer Materials & Applications	Polymers in Biomedical Application	Polymer Dynamics and Mechanics
10:00 - 10:30	<p>KL T2 Orth, P. <i>Frankfurt, Germany</i> Plastics and climate protection</p>	<p>KL C2 Picart, C.; Boudou, T.; Crouzier, T. <i>Grenoble and Montpellier, France</i> Internal composition and mechanical properties of polyelectrolyte multilayer films containing polysaccharides: Toward multi-functional films</p>	<p>KL P2 Lequeux, F. <i>Paris, France</i> How filled elastomer mechanical properties are controlled by the glassy dynamics around the nanoparticles</p>
10:30 - 11:10	<p>Coffee Break & Poster Session III <i>Löwengebäude</i></p>		
11:10 - 11:30	<p>SL T17 Köppl, T.; Altstädt, V. <i>Bayreuth, Germany</i> Influence of halogen free flame retardant additives on compact and expanded polyester materials</p>	<p>SL C5 Haag, R. <i>Berlin, Germany</i> Multifunctional dendritic polyglycerol architectures for drug and dye delivery</p>	<p>SL P11 Steininger, H.; Rüllmann, M.; Suwier, D.-R. <i>Ludwigshafen, Germany ; Mexico, Mexico</i> Strain hardening in poly(styrene-co-acrylonitrile) polymers – impact of entanglement density</p>
11:30 - 11:50	<p>SL T18 Keilholz, C.; Apeldorn, T.; Gutmann, P.; Wolff-Fabris, F.; Altstädt, V. <i>Bayreuth and Hamburg, Germany</i> Development and optimization of thermoplastic substrate materials for recyclable printed circuit board applications</p>	<p>SL C6 González-García, C.; Brizuela Guerra, N.; Llopis-Hernandez, V.; Moratal, D.; Rico, P.; Salmerón-Sánchez, M. <i>Valencia, Spain</i> Substrate stiffness modulation by increasing the length of the side group in acrylic polymers. Effect on fibronectin adsorption and cell adhesion</p>	<p>SL P12 Ganß, M.; Thunga, M.; Staudinger, U.; Satapathy, B.K.; Knoll, K.; Weidisch, R. <i>Jena, Dresden and Ludwigshafen, Germany</i> Styrene-butadiene block copolymers with statistical copolymer middle block: Influence of styrene content and architecture on the mechanical response</p>

11:50 - 12:10	SL T19 Ren, W.; McMullan, P.J.; Kline, W.; Griffin, A.C. <i>Atlanta, USA</i> Shape memory polymers: Thermally driven strain recovery in some main-chain liquid crystalline elastomers	SL C7 Markut-Kohl, R.; Schoberleitner, C.; Archodoulaki, V.-A.; Seidler, S.; Reinisch, G.; Kolb, A. <i>Vienna, Austria</i> Crosslinked PE-UHMW in hip implants: Influence of manufacturing and use on structural parameters	SL P13 Zia, Q.; Radusch, H.-J.; Androsch, R. <i>Halle, Germany</i> In situ AFM analysis of tensile deformation of isotactic polypropylene
12:10 - 12:30	SL T20 Kolesov, I.S.; Radusch, H.-J.; Gohs, U.; Heinrich, G. <i>Halle and Dresden, Germany</i> Multiple shape-memory effect in polyolefin blends cross-linked by electron irradiation after one-step programming process	SL C8 Reichert, S.; Elsner, C.; Knolle, W.; Prager, A.; Umnus, K.; Kuballa, J.; Buchmeiser, M. <i>Leipzig, Geesthacht, Stuttgart and Denkendorf, Germany</i> Electron beam derived polymeric monoliths for affinity separation	SL P14 Sotta, P.; Royston, G.; Long, D.R. <i>Saint-Fons, France</i> Distribution of relaxation times in a polymer melt and in miscible polymer blends close to the glass transition
12:30 - 13:30	Lunch Break		

ROOM	<i>AudiMax</i>	<i>Room XXII</i>	<i>Room XXIII</i>
SYMPOSIUM	Special Symposium	Symposium Polymer Chemistry	Symposium Polymer Physics
SESSION	<i>Polymers in Energy Engineering</i>	<i>Biobased Polymers</i>	<i>Structure and Morphology</i>
13:30 - 14:00	KL E1 Lang, R.W.; Wallner, G.M. <i>Linz, Austria</i> Polymeric materials for solar energy application		
14:00 - 14:30	KL E2 Scherf, U. <i>Wuppertal, Germany</i> Novel (co)polymers containing the fluorene building block		
14:30 - 14:50	SL E1 Chodak, I.; Krajči, J.; Jurčiová, J.; Podhradská, S. <i>Bratislava and Púchov, Slovakia</i> Correlation of electrical conductivity and mechanical properties of electroconductive composites based on elastomeric or thermoplastic matrices	SL C9 Balbach, J. <i>Halle, Germany</i> Protein folding and misfolding studied by NMR spectroscopy	SL P15 Stribeck, N.; Zeinolebadi, A.; Ganjaee, M.; Almendarez Camarillo, A. <i>Hamburg, Germany; Celaya, Mexico</i> Structure evolution of polypropylene / MWCNT nanocomposites under uniaxial deformation monitored by SAXS

14:50 - 15:10	SL E2 Schulze, S.-H.; Ehrich, C.; Klausning, S.; Ebert, M. <i>Halle and Leipzig, Germany</i> Polymers as solar cell encapsulate materials for application in photovoltaic modules	SL C10 Gladitz, M.; Reinemann, S. <i>Rudolstadt, Germany</i> Antibakterielle thermoplastische Elastomere	SL P16 Nischang, I.; Teasdale, I.; Brüggemann, O. <i>Linz, Austria</i> Molded macroporous copolymer networks: The importance of polymer structure for flow-through applications
15:10 - 15:30	SL E3 Kahlen, S.; Wallner, G.M.; Lang, R.W. <i>Linz and Leoben, Austria</i> Aging behavior of polymeric absorber materials for solar thermal collectors	SL C11 Kressler, J.; Kyrematen, S. <i>Halle, Germany</i> Synthesis and properties of triphilic polymers	SL P17 Weber, A.; Resch, K.; Teichert, C. <i>Leoben, Austria</i> Atomic Force Microscopy studies on the morphology of polymeric thermotropic glazings for overheating protection applications
15:30 - 16:10	Coffee Break & Poster Session IV <i>Löwengebäude</i>		
ROOM	AudiMax	Room XXII	Room XXIII
SYMPOSIUM	Special Symposium	Symposium Polymer Chemistry	Symposium Polymer Engineering
SESSION	Polymers in Energy Engineering	Biobased Polymers	Polymer-Nanotube Composites
16:10 - 16:40	KL E3 Gutmann, J.S. <i>Mainz, Germany</i> Block copolymers beyond templating - merging structure and function	KL C3 Fink, H.-P.; Ganster, J.; Engelmann, G. <i>Potsdam-Golm, Germany</i> Biobased polymers and composites	KL T3 Zaikov, G.E.; Rakhimkulov, A.D.; Lomakin, S.M.; Dubnikova, I.L.; Shchegolikhin, A.N.; Davidov, E.Y.; Kozlowski, R. <i>Moscow, Russia; Poznan, Poland</i> Thermal degradation and combustion behavior of polypropylene / multiwalled carbon nanotube composites
16:40 - 17:00	SL E4 Ruderer, M.A.; Hinterstocker, M.; Guo, S.; Müller-Buschbaum, P. <i>Garching, Germany</i> Investigations of structural changes by modifications of polymer systems for photovoltaic applications	SL C12 Ganster, J.; Erdmann, J. <i>Potsdam-Golm, Germany</i> Tailor-made PLA- and PHB based cellulose fibre composites with engineered fibre-matrix interface	SL T 21 Alig, I. <i>Darmstadt, Germany</i> Influence of thermo-rheological history on carbon nanotube composite melts: Combined rheo-electrical experiments

17:00 - 17:20	<p>SL E5 Oreski, G.; Randel, P. <i>Leoben, Austria; Burghausen, Germany</i> Development and characterization of advanced silicon based thermoplastic elastomers for PV encapsulation</p>	<p>SL C13 Eckardt, J.; Busch, M.; Krombholz, A. <i>Halle, Germany</i> Verarbeitungsverhalten von Cellulose regeneratfaserverstärkten Thermoplasten</p>	<p>SL T22 Gültner, M.; Gödel, A.; Pötschke, P. <i>Dresden, Germany</i> The role of mixing sequence of PC/SAN blends containing a reactive component filled with functionalized MWNT</p>
17:20 - 17:40	<p>SL E6 Egbe, D.A.M.; Adam, G.; Pivrikas, A.; Ulbricht, C.; Montaigne, A.R.; Sariciftci, N.S.; Rathgeber, S.; Hoppe, H. <i>Linz, Austria; Mainz and Ilmenau, Germany</i> Anthracene-containing PPE-PPV: Improvement of hole mobility and photovoltaic performance through random distribution of linear and branched side chains</p>	<p>SL C 14 Patel, V. <i>Noida, India</i> Low cost and enhanced physico-mechanical biodegradable blend nanocomposites of polyolefin and natural polymer</p>	<p>SL T23 Kasaliwal, G.; Gödel, A.; Pegel, S.; Pötschke, P.; Heinrich, G. <i>Dresden, Germany</i> Influences of polymer matrix melt viscosity and molecular weight on MWNT agglomerate dispersion</p>
17:40 - 18:00	<p>SL E7 Meier-Haack, J.; Butwilowski, W.; Quetschke, A.; Vogel, C. <i>Dresden, Germany</i> Side-chain sulfonated poly(ether sulfone)s for PEMFC applications</p>	<p>SL C15 Anton, W.; Gonzalías, A.; Kolesov, I.; Radusch, H.-J.; Schnabel, R. <i>Halle, Germany</i> Herstellung biologisch abbaubarer Trägermaterialien für die Immobilisierung von Mikroorganismen zur Wasseraufbereitung</p>	<p>SL T24 Socher, R.; Krause, B.; Pötschke, P.; Hermasch, S.; Wursche, R. <i>Dresden and Marl, Germany</i> Macrodispersion and electrical properties of CNT-PA12 composites as a function of polymer viscosity and end group functionalization</p>
19:00	<p>Conference Dinner <i>K & K Conference Center / Dormero Hotel „Rotes Ross“, Leipziger Str. 76 / Franckestr. 1</i></p>		

P.2010

Friday, September 17, 2010

ROOM	<i>AudiMax</i>
	Plenary Session
9:00 – 10:00	PL 4 Mykhaylyk, O.O.; Ryan, A. <i>Sheffield, UK</i> Making Polymers Swim

ROOM	<i>AudiMax</i>	<i>Room XXII</i>	<i>Room XXIII</i>
SYMPOSIUM	Symposium Polymer Engineering	Symposium Polymer Engineering	Symposium Polymer Physics
SESSION	<i>Polymer Blends & Nanocomposites</i>	<i>Polymer Properties, Testing and Characterization</i>	<i>Novel Experimental Techniques</i>
10:00 -10:30	KL T4 Heinrich, G.; Chervanyov, A.; Saphiannikova, M.; Richter, S.; Stöckelhuber, K.W. <i>Dresden, Germany</i> New insights into polymer-particle nanocomposites: From nano-scale polymer-mediated interactions to macro-scale structural organization	KL T5 Matsuo, M.; Bin, Y. <i>Nara, Japan</i> Electric and dielectric properties of polymer - conductive particle composites	KL P3 Schick, C.; Zhuravlev, E. <i>Rostock, Germany</i> Polymer crystallization studied at processing relevant scanning rates ($<10^6$ K/s)
10:30 - 11:10	<i>Coffee Break & Poster Session V Löwengebäude</i>		
11:10 - 11:30	SL T25 Feuchter, M.; Maier, G.; Pinter, G.; Kracalik, M.; Laske, S. <i>Leoben, Austria</i> Structural influence of layered silicates on mechanical properties in polypropylene nanocomposites	SL T29 Mamunya, Y.; Levchenko, V.; Boiteux, G.; Lebedev, E. <i>Kyiv, Ukraine; Lyon, France</i> Influence of spatial distribution of conductive filler on electrical properties of nanocomposites	SL P18 Stribeck, N.; Nöchel, U.; Zeinolebadi, A. <i>Hamburg and Teltow, Germany</i> New methods for monitoring structure evolution in composite fibers by X-ray scattering
11:30 - 11:50	SL T26 Le, H.H.; Ali, Z.; Ilisch, S.; Radusch, H.-J. <i>Halle, Germany; Lahore, Pakistan</i> Time dependent reinforcement effect of nanoclay in rubber composites	SL T30 Tavman, I.; Krupa, I.; Omastova, M.; Novak, I.; Turgut, A.; Sever, K.; Ozdemir, I.; Seki, Y.; Podhradská, S.; Moskova, D. <i>Bornova Izmir and Bartin, Turkey; Bratislava, Slovakia</i> Preparation and characterization of conductive polymeric nanocomposites based on HDPE and expanded graphite	SL P19 Schäler, K.; Ostas, E.; Saalwächter, K. <i>Halle, Germany</i> Investigation of linear and cyclic P _ε CL by means of ¹ H low field NMR methods

11:50 - 12:10	SL T27 Stöckelhuber, K.W.; Pelevin, A.G.; Svistkov, A.L.; Heinrich, G. <i>Dresden, Germany; Perm, Russia</i> Influence of the polymer-filler interfaces/interphases on mechanical properties of S-SBR-composites	SL T31 Bagsik, A.; Schöppner, V.; Klemp, E. <i>Paderborn, Germany</i> FDM part quality manufactured with Ultem*9085	SL P20 Yu, Y.; Dlubek, G.; Krause-Rehberg, R.; Beiner, M.; Hempel, E.; Pospiech, D.; Jehnichen, D.; Häußler, L.; Pionteck, J. <i>Halle and Dresden, Germany</i> Phase transitions in polymers containing long self-assembled CH ₂ and CF ₂ sequences in their side chain: A positron lifetime study
12:10 - 12:30	SL T28 Sahakaro, K.; Sengloyluan, K.; Noordermeer, J.W.M. <i>Pattani, Thailand ; Enschede, The Netherlands</i> Mechanical, dynamic and swelling properties of NR/EPDM blends	SL T32 Frick, A.; Mikoszek, M.; Michler, G.; Henning, S. <i>Aalen and Halle, Germany</i> Segmented thermoplastic polyurethanes – dependence of viscoelastic properties on thermal history	SL P21 Halm, H.; Deckmann, H. <i>Ahlden, Germany</i> Dynamisch-mechanisch-thermische Analyse unter hohen Lasten
12:30 - 13:30	<i>Lunch Break</i>		

ROOM	<i>AudiMax</i>	<i>Room XXII</i>	<i>Room XXIII</i>
SYMPOSIUM	Symposium Polymer Engineering	Symposium Polymer Chemistry	Symposium Polymer Physics
SESSION	<i>Polymer Properties, Testing and Characterization</i>	<i>Modification & Interfaces</i>	<i>Structure & Morphology</i>
13:30 - 14:00	KL T6 Altstädt, V.; Fischer, F.; Götz, C.; Wolff-Fabris, F. <i>Bayreuth, Germany</i> Fatigue behavior of polymer blends and nanocomposites	KL C4 Focke, W.W.; Molefe, D.; Labuschagne, F.J.W.; Ramjee, S. <i>Pretoria, South Africa</i> The influence of stearic acid coating on the viscosity of hydrated filler suspensions	KL P4 Sakai, T.; Agaki, Y.; Matsunaga, T.; Tsutsui, Y.; Shibayama, M.; Chung, U. <i>Tokyo, Japan</i> Evaluation of network structure and physical properties of Tetra-PEG gel
14:00 - 14:20	SL T33 Favier, A. <i>Limonest, France</i> A new fatigue test machine for accurate crack growth analysis in rubber compounds	SL C16 Voit, B. <i>Dresden, Germany</i> HB polymers in coatings and thin film application	SL P22 Schneider, K.; Schöne, A.; Roth, S.V. <i>Dresden and Hamburg, Germany</i> Investigation of temperature dependent structural changes in iPP during deformation by SAXS/WAXS
14:20 - 14:40	SL T34 Ariff, Z.M.; Samsudin, S.S.; Mutalib, N.A.A. <i>Pulau Pinang, Malaysia</i> Compressive behaviour of syntactic foam filled with epoxy hollow spheres having different wall thickness	SL C17 Wang, J.; Tahir, M.N.; Tremel, W.; Kappl, M.; Metz, N.; Barz, M.; Theato, P.; Butt, H.-J. <i>Mainz, Germany</i> Single polymer binding: Towards a universal adhesive	SL P23 von der Ehe, K.; Jaunich, M.; Böhning, M.; Goering, H.; Wolff, D. <i>Berlin, Germany</i> Detection of structural changes of (U)HMW-PE induced by gamma irradiation

14:40 - 15:00	SL T35 Rueda, F.; Fasce, L.A.; Frontini, P.M. <i>Mar del Plata, Argentina</i> Determination of J-R curves of ductile polymers using the normalization method	SL C18 Lazzeri, A.; Shi, X.-T. <i>Pisa, Italy</i> Effect of surface coating of precipitated calcium carbonate on the mechanical properties of polymeric nanocomposites	SL P24 Neumann, M.; Franke, M.; Schöbel, A.; Magerle, R. <i>Chemnitz and Garching, Germany</i> Direct imaging of nanoscale deformation processes in elastomeric polypropylene
15:00 - 15:20	SL T36 Nezbedová, E.; Hutař, P.; Knésl, Z.; Sadílek, J. <i>Brno, Czech Republic</i> Accelerated test for PE 100 and PE 100RC pipes grades	SL C19 Handge, U.A.; Hedicke-Höchstötter, K.; Pospiech, D.; Altstädt, V. <i>Bayreuth, Hamburg and Dresden, Germany</i> Influence of surface modification on the mechanical and rheological properties of Polyamide 6 / Halloysite composites	SL P25 Nazockdast, H.; Hajiraissi, R. <i>Tehran, Iran</i> Study on microstructure development of PP/PET blend nanocomposite fibers
15:20 - 15:40	SL T37 Raab, M.; Kotek, J.; Grellmann, W. <i>Prague, Czech Republik; Halle, Germany</i> Gradients in composition, morphology and properties of semicrystalline polymers: A multiscale approach	SL C20 Adhikari, R.; Bhandari, N.L.; Causin, V.; Le, H.H.; Khasim, H.I.; Henning, S.; Radusch, H.-J.; Michler, G.H.; Saiter, J.M. <i>Khatmandu, Nepal; Padova, Italy; Halle, Germany; Rouen, France</i> Biodegradable polymer composites with bamboo flour: Morphology and mechanical properties	SL P26 Nase, M.; Androsch, R.; Funari, S.S.; Michler, G.H.; Langer, B.; Händel, R.; Grellmann, W. <i>Weissandt-Görlau, Halle, Hamburg and Merseburg, Germany</i> Structure and properties of blown films of LDPE/iPB-1 blends for peel film applications
15:45	<i>Coffee & Farewell Löwengebäude</i>		

Poster session

Symposium: Polymer Chemistry

- P C1 **Aggarwal, N.; Groth, T., Halle, Germany**
Variation of pH during multilayer formation as an effective tool to control cellular behaviour
- P C2 **Ahmetshina, A.; Davletbaeva, I.M.; Gumerov, A.M., Kazan, Russia**
Polymers on the base of aromatic isocyanates with open-chain analogues of crown ethers
- P C3 **Enders, C.; Protz, R.; Binder, W.H., Halle, Germany**
Synthesis and characterization of functionalized oligo- and poly(3-hexylthiophene)s
- P C4 **Galjautdinova, A.F.; Davletbaeva, I.M.; Gumerov, A.M., Kazan, Russia**
Investigation of organosiloxane polymerization activated by aromatic isocyanates by a macroinitiator
- P C5 **Gragert, M.; Schunack, M.; Binder, W.H., Halle, Germany**
Self-healing polymers via azide/alkyne -"click"-chemistry
- P C6 **Gumerova, O.R.; Davletbaev, R.S., Kazan, Russia**
Synthesis of organo-inorganic gels by sol-gel method for structuring heterochain polymers
- P C7 **Hackethal, K.; Binder, W.H., Halle, Germany**
Polyisobutylene based supramolecular networks – synthesis, characterization and rheology
- P C8 **Herbst, F.; Binder, W.H., Halle, Germany**
Synthesis and bulk-rheology of supramolecular polyisobutylenes
- P C9 **Khoi, N.V.; Thanh, D.G.; Ha, P.T.T.; Tung, N.T., Hanoi, Vietnam**
Polyurethane materials based on liquid natural rubbers containing hydroxyl and epoxy groups
- P C10 **Tung, N.T.; Hiep, T.V.; Duc, N.T.; Hoan, D.C., Hanoi, Vietnam**
Graft polymerization of acrylic acid onto bamboo fibers in the presence of $\text{H}_2\text{O}_2/\text{Fe}^{+2}$ using for adsorption of some heavy metal ions
- P C11 **Khoi, N.V.; Luong, L.V.; Huy, N.Q.; Cong, D.T., Hanoi, Vietnam**
Modification of oxidized tapioca starch by some water soluble vinyl monomers
- P C12 **Kir, O.; Binder, W.H.; Saalwächter, K., Halle, Germany**
"Grafting from" living anionic polymerization of polybutadiene from silica nanoparticle-surface
- P C13 **Kochnev, A.I.; Kazakov, Y.M.; Galibeev, S.S., Tomsk, Russia**
Synthesis copolymers of ethylene with α -olefins using highly active vanadium catalysts
- P C14 **Naolou, T.; Busse, K.; Kressler, J., Halle, Germany**
Modification of poly(glycerol adipate) and its surface activity

- P C15 **Li, Z.; Kyeremateng, S.O.; Kressler, J.; Fuchise, K.; Kakuchi, R.; Sakai, R.; Kakuchi, T., Halle, Germany; Sapporo, Japan**
Modification of PNIPAM for modifying chain dynamics at LCST
- P C16 **Kurzals, S.; Binder, W.H., Halle, Germany**
Telechelic poly-p-phenylenevinylenes via ROMP
- P C17 **Niepel, M.; Fuhrmann, B.; Leipner, H.S.; Groth, T., Halle, Germany**
Combination of Nanosphere Lithography (NSL) and Atom Transfer Radical Polymerization (ATRP) to direct cell adhesion on biomaterial surfaces
- P C18 **Ngo, T.T.; Hoik, L.; Yeari, S.; Daewon, S., Seoul, Korea; Hanoi, Vietnam**
Preparation and properties characterization of selenious acid doped polyaniline: Correlation between structure and properties
- P C19 **Ostas, E.; Binder, W.H., Halle, Germany**
Synthesis and investigation of the crystallization behavior of supramolecular block copolymers
- P C20 **Schulz, M.; Barqawi, H.; Binder, W.H., Halle, Germany**
Macrocyclization of polymers via ring-closing metathesis and azide/alkyne -"click"-reactions: An approach to cyclic polyisobutylene
- P C21 **Smirnova, O.; Galibeev, S.S.; Gagieva, S.; Tuskaev, V.; Bulychev, B., Tomsk, Russia**
Peculiarities of ethylene with high α -olefins copolymerization at presence bis(phenoxy-imine) catalysts
- P C22 **Timofeeva, E.S.; Shkodich, V.F.; Shkodich, N.F., Kazan and Chernogolovka, Russia**
Features of formation of nanocomposites based on phenol-formaldehyde oligomer and mechanoactivated detonation nanodiamond
- P C23 **Vargas, M.A.; Cudaj, M.; Hailu, K.; Sachsenheimer, K.; Guthausen, G., Karlsruhe, Germany**
On-line low field $^1\text{H-NMR}$ spectroscopy: Monitoring of emulsion polymerization of butyl-acrylate
- P C24 **Grigoryeva, O.; Fainleib, A.; Starostenko, O.; Youssef, B.; Saiter, J.-M.; Grande, D., Kyiv, Ukraine; Saint Etienne du Rouvray and Thiais, France**
Synthesis, viscoelastic and thermal properties of polycyanurate/epoxy- functionalized polyhedral oligomeric silsesquioxane
- P C25 **Youssef, B.; Grigoryeva, O.; Fainleib, A.; Garda, M.-R.; Saiter, J.-M.; Grenet, J., Saint Etienne du Rouvray, France; Kyiv, Ukraine**
In situ sequential polyurethanemethacrylate/polycyanurate interpenetrating polymer networks. Synthesis and effect of annealing on crystallization behaviour and viscoelastic properties
- P C26 **Kalugina, E.V.; Gaevoy, N.V.; Gumargalieva, K.Z.; Zaikov, G.E., Moscow, Russia**
The degradation heterochain polymers in the presence of phosphorus stabilizers
- P C27 **Zare, P.; Binder, W.H., Halle, Germany**
Preparation of polymeric ionic liquids as potential lubricants

- P C28 **Zhang, K.; Peschel, D.; Groth, T.; Fischer, S.**, *Tharandt and Halle, Germany*
Synthesis of chitosan sulfates with potentiating effects on the activity of BMP-2
- P C29 **Davydov, E.Y.; Gaponova, I.S.; Lomakin, S.M.; Pariiskii, G.B.; Pokholok, T.V.; Zaikov, G.E.**, *Moscow, Russia*
Mechanism of stable radical generation in lignin under the action of nitrogen dioxide
- P C30 **Doroshenko, M.; Koynov, K.; Zaikov, G.E.; Mukbaniani, O.V.**, *Tbilissi, Georgia; Mainz, Germany; Moscow, Russia*
Organosilicon polymers with photo switchable fragments in the side chain
- P C31 **Matienko, L.I.; Mosolova, L.A.; Zaikov, G.E.**, *Moscow, Russia*
Metallocomplex catalysis in selective alkylarenes oxidations to hydroperoxides. Design of new effective Ni (Fe) – catalytic systems. The important role of H-bonds in the mechanism of catalysis
- P C32 **Schubert, D.; Zimmerer, C.; Nagel, J.**, *Dresden, Germany*
Surface conductivity of thermoplastics by surface-reactive injection moulding
- P C33 **Ponyrko, S.; Kruliš, Z.; Kotek, J.**, *Prague, Czech Republic*
Biodegradable polymeric materials based on B-starch
- P C34 **Crouse, P.L.; Pretorius, C.J.; van der Walt, I.J.**, *Pretoria, South Africa*
The pyrolysis of polytetrafluoroethylene: A thermogravimetric and photographic study

Symposium: Polymer Physics

- P P1 **Mujtaba, A.; Ilisch, S.; Radusch, H.-J.; Thurn-Albrecht, T.; Saalwächter, K.; Beiner, M.**, *Halle, Germany*
Influence of silica filler particles on polymer dynamics and crosslinking density of SBR nanocomposites
- P P2 **Bercea, M.; Eckelt, J.; Wolf, B.A.**, *Iasi, Romania; Mainz, Germany*
Thermodynamic aspects concerning the solutions of random copolymers
- P P3 **Bercea, M.; Morariu, S.**, *Iasi, Romania*
Rheology of poly(vinyl alcohol)/water systems
- P P4 **Bercea, M.; Morariu, S.; Brunchi, C.E.; Eckelt, J.; Wolf, B.A.**, *Iasi, Romania; Mainz, Germany*
Evaluation of the intrinsic viscosity for different polymer systems
- P P5 **Brüning, K.; Schneider, K.**, *Dresden, Germany*
Strain-induced crystallization and void formation in on-line stretched natural rubber studied by synchrotron SAXS and WAXS
- P P6 **Dimzoski, B.; Fortelný, I.; Šlouf, M.; Michálková, D.**, *Prague, Czech Republic*
Thermally induced morphological changes in quiescent immiscible polymer blends
- P P7 **Gross, C.; Paul, W.**, *Mainz and Halle, Germany*
A soft particle model for diblock copolymer melts

- P P8 **Gafurov, U.; Kabisova, L.; Vlasova, E.,** *Tashkent, Uzbekistan; Saint-Petersburg, Russia*
Gamma-irradiation stimulated change of recycled polypropylene and its composites resistivity
- P P9 **Günther, S.; Hänsel, R.; Teuscher, N.; Kiesow, A.; Heilmann, A.,** *Halle and Freiberg, Germany*
Precursor-assisted atmospheric pressure dielectric barrier discharges on polyethylene surfaces
- P P10 **Hajiraissi, R.,** *Tehran, Iran*
Study on the effect of organoclay on the surface tension of PP/PET/organoclay nanocomposite films
- P P11 **Pavlova, E.; Šlouf, M.; Sikora, A.; Jůza, J.; Šandová, H.; Baldrian, J.; Piórkowska, E.,** *Prague, Czech Republic; Łódź, Poland*
Nucleation of polypropylenes with gold nanoparticles using sandwich method
- P P12 **Koch, T.; Steiger-Tiersfeld, A.; Zankel, A.; Salaberger, D.; Seidler, S.,** *Vienna and Wels, Austria*
Morphology characterization of particle filled polymers by tomographic methods
- P P13 **Kohn, P.; Sommer, M.; Thelakkat, M.; Thurn-Albrecht, T.,** *Halle and Bayreuth, Germany*
Crystallization induced phase separation in a double crystalline donor-acceptor diblock copolymer
- P P14 **Beloshenko, V.A.; Voznyak, A.V.; Voznyak, Y.V.; Kolesov, I.S.,** *Donetsk, Ukraine; Halle, Germany*
Solid-phase extrusion of semicrystalline polymers by combined deformation methods
- P P15 **Pfefferkorn, D.; Steininger, H.; Weber, M.; Gibon, C.; Kressler, J.,** *Halle and Ludwigshafen, Germany*
Using UCST behavior for lowering the thermal expansion coefficient of polymer blends
- P P16 **Lange, F.; Kurakazu, M.; Akagi, Y.; Chung, U.; Sakai, T.; Saalwächter, K.,** *Halle, Germany; Tokyo, Japan*
NMR observation of “quantized” defect structures in hydrogels
- P P17 **Le, H.H.; Ilisch, S.; Radusch, H.-J.,** *Halle, Germany*
Filler network formation during cross-linking process of CB-polymer composites monitored by the method of the online measured electrical resistance
- P P18 **Lehnick, M.; Saalwächter, K.,** *Halle, Germany*
Multiple quantum NMR observation of reptation and constraint release in polymer melts
- P P19 **Meyer, H.; Schneider, H.; Saalwächter, K.,** *Halle, Germany*
Spin diffusion NMR to study phase structure and lamellar thicknesses in block copolymers
- P P20 **Mileva, D.; Zia, Q.; Androsch, R.; Radusch, H.-J.,** *Halle, Germany*
Effect of chain defects on the mesophase formation in isotactic polypropylene
- P P21 **Morariu, S.; Bercea, M.,** *Iasi, Romania*
Effect of polymer on the flow properties of smectite aqueous dispersions

- P P22 **Morariu, S.; Bercea, M., Iasi, Romania**
Rheology of poly(ethylene oxide) in aqueous solutions
- P P23 **Müller, M.T.; Krause, B.; Kretschmar, B.; Jahn, I.; Pötschke, P., Dresden and Schkopau, Germany**
Thermal conductivity of nanocomposites based on HDPE and hybrid filler systems
- P P24 **Pankaj, S.; Beiner, M., Halle, Germany**
Long-term behavior and side chain crystallization of poly(3-alkyl thiophenes)
- P P25 **Schade, B.; Huysmans, W.; Kahl, H.; Rödel, T., Merseburg, Germany**
Physikalische Eigenschaften von Polyurethan-Netzwerken mit definierter molekularer Struktur
- P P26 **Schlegel, R.; Weidisch, R.; Hadjichristidis, N.; Mays, J.W.; Klüppel, M.; Heinrich, G., Jena, Halle, Hannover and Dresden, Germany; Athens, Greece; Knoxville, USA**
Efficiency of physical cross linking in multigraft and block-graft copolymers
- P P27 **Shi, X.-T.; Bertoti, I.; Lazzeri, A., Pisa, Italy; Budapest, Hungary**
Surface energy characterization of nano calcium carbonate fillers coated with stearic acid in aqueous medium
- P P28 **Spitzner, E.-C.; Riesch, C.; Magerle, R., Chemnitz, Germany**
Sub-surface volume imaging of mechanical properties in heterogeneous polymeric materials
- P P29 **Yu, Y.; Dlubek, G.; Krause-Rehberg, R.; Beichel, W.; Bulut, S.; Pogodina, N.; Krossing, I.; Friedrich, C., Halle, Lieskau and Freiburg, Germany**
The free volume in imidazolium-based ionic liquids from positron lifetime: amorphous, crystalline and liquid states
- P P30 **Yu, Y.; Dlubek, G.; Pionteck, J.; Krause-Rehberg, R., Halle, Lieskau and Dresden, Germany**
The temperature dependence of the subnanometre free volumes in semicrystalline polyethylene and polytetrafluoroethylene: A positron lifetime and pressure-volume-temperature study
- P P31 **Chassé, W.; Saalwächter, K., Halle, Germany**
Polymer swelling thermodynamics investigated by NMR
- P P32 **Goodman, W.; Menard, K.; Platthaus, I., Shelton, USA; Rodgau, Germany**
Applications of TG-MS and TG-GC/MS to polymers
- P P33 **Vianna, S.D.B.; Plum, M.A.; Steffen, W.; Butt, H.-J.; Harmandaris, V.; Duran, H., Mainz, Germany**
The impact of solid surfaces on the structure and dynamics of polymer melts
- P P34 **Zidek, J.; Nezbedova, E.; Jancar, J., Brno, Czech Republic**
Numerical approach to the modeling of materials with network structure
- P P35 **Aneli, J.N.; Mukbaniani, O.V.; Zaikov, G.E.; Markarashvili, E.G., Tbilissi, Georgia; Moscow, Russia**
Electric conductivity of polymer composites at mechanical relaxation

- P P36 **Moyo, S.L.; Heidenreich, D.; Focke, W.W.; Labuschagne, F.J.W.; Radusch, H.-J.**, *Pretoria, South Africa; Halle, Germany*
The effect of matrix polarity on the properties of LDH-stearate polymer composites
- P P37 **Zeddami, C.; Belhaneche-Bensemra, N.; Tighzert, L.**, *El-Harrach and Blida, Algeria; Reims, France*
Migration of BHT and its UVB products degradation from polystyrene films into fatty food stimulant
- P P38 **Kolupaev, V.A.; Mohr-Matuschek, U.; Altenbach, H.**, *Darmstadt, Kelsterbach and Halle, Germany*
Application of strength hypotheses for POM

Symposium: Polymer Engineering

- P T1 **Albrecht, V.; Simon, F.; Gohs, U.; Reinsch, E.; Peuker, U.A.**, *Dresden and Freiberg, Germany*
Der Einfluss von Additiven, Füllstoffen und Verunreinigungen auf die Elektrosortierung von Kunststoffabfällen
- P T2 **Glomb, M.; Jahn, R.; Radusch, H.-J.; Anton, W.; Boritzki, A.; Kolesov, I.; Spanneberg, R.**, *Halle, Germany*
Entwicklung einer sprühfähigen und biologisch abbaubaren Folie auf Basis nachwachsender Rohstoffe für den landwirtschaftlichen und gärtnerischen Kulturpflanzenbau
- P T3 **Belhaneche-Bensemra, N.; Boussoum, M.O.; Bouchakour, K.**, *El-Harrach, Algeria*
Diocetyl phthalate migration from PVC into saliva
- P T4 **Belhaneche-Bensemra, N.; Bourouis-Djedouani, D.; Djemai-Zoghliche, Y.**, *El-Harrach, Algeria*
Investigation of the soil burial degradation of semi rigid and plasticized PVC stabilized with epoxidized sunflower oil
- P T5 **Belhaneche-Bensemra, N.; Guerfi, N.**, *El-Harrach, Algeria*
Compatibilisation of regenerated low density polyethylene/ poly propylene blends
- P T6 **Bräuer, M.; Edelmann, M.; Kühnert, I.; Schneider, K.; Lehmann, D.**, *Dresden, Germany*
Reaktives Verbundspritzgießen von Metall-Kunststoff-Verbunden
- P T7 **Kolesov, I.S.; Dolynchuk, A.; Radusch, H.-J.**, *Halle, Germany; Dnepropetrovsk, Ukraine*
Simulation and experimental investigation of shape-memory recovery of polyethylenes with different degree of branching and crosslink density
- P T8 **Emelina, O.Y.; Davletbaev, R.S.**, *Kazan, Russia*
Polymeric materials on the base of sterically hindered boric acid esters
- P T9 **Gazinska, M.; Kiersnowski, A.; Szustakiewicz, K.; Pięłowski, J.**, *Wrocław, Poland*
Biodegradable blends and copolyesters of poly(butylene terephthalate), poly(butylene succinate) and poly(ϵ -caprolactone)

- P T10 **Grießbach, S.; Buschner, N.; Lach, R.; Grellmann, W.**, *Chemnitz, Merseburg and Halle, Germany*
Einsatz des Diffusionsfärbens zur zerstörungsfreien Bauteilprüfung an Lasersinterteilen
- P T11 **Hajiraissi, R.; Hajiraissi, M.**, *Tehran, Iran*
Influence of the organoclay on the electrical properties of polypropylene/polyethylene terephthalate/organoclay nanocomposite
- P T12 **Heidenreich, D.; Le, H.H.; Ilisch, S.; Radusch, H.-J.**, *Halle, Germany*
Influence of process oils on the wetting behavior and phase specific silica distribution in rubber blends
- P T13 **Roos, S.; Das, A.; Heinrich, G.**, *Dresden, Germany*
Rubber nanocomposites based on naturally occurring silicate nanotubes
- P T14 **Hoang, X.T.; Nguyen, H.N.; Nguyen, D.T.; Che, D.B.; Dinh, T.X.M.; Le, H.H.**, *Ho Chi Minh City, Vietnam; Halle, Germany*
Nanocomposite based on bismaleimide and MW-CNTs modified with aromatic diamine – Preparation and characterization
- P T15 **Hoang, X.T.; Nguyen, H.N.; Nguyen, D.T.; Che, D.B.; Nguyen, D.K.T.; Le, H.H.**, *Ho Chi Minh City, Vietnam; Halle, Germany*
Montmorillonite based on thermally stable, aromatic amine modifiers
- P T16 **Hoang, X.T.; Nguyen, H.N.; Nguyen, D.T.; Che, D.B.; Nguyen, D.K.T.; Le, H.H.**, *Ho Chi Minh City, Vietnam; Halle, Germany*
Thermally stable thermoset bismaleimide/montmorillonite (MMT) nanocomposites based on surfactants from aromatic amine ODA
- P T17 **Hölzer, S.; Ganß, M.; Schneider, K.; Weidisch, R.**, *Halle and Dresden, Germany*
Deformation behaviour of lamellae-forming styrene/butadiene- triblock copolymers with statistical copolymer middle blocks
- P T18 **Hübner, M.; Röber, F.; Chmielewski, D.; Radusch, H.-J.**, *Halle and Ramstadt, Germany*
Influence of the chemical structure of the basic components on the properties of poly(dimethylsiloxan-urea) copolymers
- P T19 **Ilisch, S.; Le, H.H.; Hamann, E.; Radusch, H.-J.**, *Halle and Schkopau, Germany*
Effect of styrene and vinyl content of styrene butadiene rubber on dispersion and phase specific distribution of carbon black in SSBR/NR blends
- P T20 **Keller, M.C.; Ilisch, S.; Le, H.H.; Radusch, H.-J.**, *Halle, Germany*
Characterization of influences of mixing regime and ingredients on cure behavior and dynamic mechanical properties of SSBR-silica compounds
- P T21 **Khalimovskyy, O.**, *Kiew, Ukraine*
Parameterstabilisierung des Extrudierprozesses bei der Inline-Farbmessung
- P T22 **Khang, D.Q.; Hai, L.N.; Thao, N.T.; Hung, H.T.; Minh, D.Q.; Le, H.H.**, *Hanoi, Vietnam; Halle, Germany*
Preparation of elastomer blend with high thermal stability and flame resistance based on nitrile butadiene rubber/poly(vinylchloride) system

- P T23 **Thao, N.T.; Hai, L.N.; Phan, V.N.; The, N.K. ; Khang, D.Q.**, *Hanoi, Vietnam*
Preparation and application of some elastomer blends based on natural rubber
- P T24 **Thang, T.V.; An, H.T.V.; Ha, P.T.T.; Tung, N.T.; Khoi, N.V.**, *Hanoi, Vietnam*
Some effects of additives on the weather resistance of polyolefin film
- P T25 **Kiesow, A.; Teuscher, N.; Jüttner, G.; Thormann, A.; Günther, S.; Burmeister, F.; Holländer, A.; Heilmann, A.**, *Halle, Leipzig and Potsdam, Germany*
Injection molded components of polypropylene with nanostructured and functionalized surfaces
- P T26 **Kolupaev, V.A.; Bolchoun, A.; Altenbach, H.**, *Darmstadt and Halle, Germany*
Estimation of viscoelastic properties from relaxation and short-time tests
- P T27 **Kolupaev, V.A.; Becker, W.; Wieser, J.**, *Darmstadt, Germany*
Fracture of fibre-reinforced foams with PU matrix
- P T28 **Kolupaev, V.A.; Bolchoun, A.; Altenbach, H.**, *Darmstadt and Halle, Germany*
Strength hypotheses for hard polymeric foams
- P T29 **Krause, B.; Boldt, R.; Häußler, L.; Pötschke, P.**, *Dresden, Germany*
Ultralow percolation threshold in polyamide 66 / CNT composites
- P T30 **Dubnikova, I.L.; Kuvardina, E.V.; Krasheninnikov, V.G.; Lomakin, S.M.; Tchmutin, I.A.; Kuznetsov, S.P.; Abramtchuk, S.S.; Sinevich, E.A.**, *Moscow, Russia*
The effect of carbon nanofiller type on the morphology, mechanical and functional properties of the PP-based nanocomposites
- P T31 **Le, H.H.; Ilisch, S.; Hoang, T.X.; Nguyen, H.N.; Do, Q.K.; Radusch, H.-J.**, *Halle, Germany; Ho Chi Minh City and Hanoi, Vietnam*
Spannungsrelaxationsverhalten von Organoclay gefüllten Vulkanisaten und thermoplastischen Vulkanisaten
- P T32 **Le, H.H.; Kolesov, I.S.; Ilisch, S.; Radusch, H.-J.**, *Halle, Germany*
Joule heating stimulated shape-memory behavior of carbon black filled ethylene-octene copolymers
- P T33 **Le, H.H.; Heidenreich, D.; Oßwald, K.; Ilisch, S.; Radusch, H.-J.**, *Halle and Merseburg, Germany*
Phase specific filler distribution in ternary SBR/NR/EPDM blends
- P T34 **Le, H.H.; Schoß, M.; Ilisch, S.; Radusch, H.-J.**, *Halle, Germany*
Electrical properties of CB filled EOC/EPDM blends
- P T35 **Menzer, K.; Weidisch, R.; Kretschmar, B.; Krause, B.; Pötschke, P.**, *Halle and Dresden, Germany*
Morphology and fracture behaviour of polypropylene-based nanocomposites with multiwalled carbon nanotubes of different average lengths
- P T36 **Müller, M.T.; Krause, B.; Kretschmar, B.; Pötschke, P.**, *Dresden, Germany*
Optimization of twin-screw extrusion process for PP/MWNT composites with regard to the electrical and mechanical properties

- P T37 **Oßwald, K.; Le, H.H.; Ilisch, S.; Kirbs, J.; Radusch, H.-J.**, *Merseburg and Halle, Germany*
Morphologie-Eigenschafts-Korrelation von ternären Kautschukblends
- P T38 **Pflug, G.; Gladitz, M.; Reinemann, S.**, *Rudolstadt, Germany*
Untersuchung MWNT-haltiger Polymerverbunde für den Einsatz in schirmdämpfenden und wärmeleitfähigen Gehäusematerialien
- P T39 **Pionteck, J.; Piana, F.**, *Dresden, Germany*
Modification of the electrical properties of TPU by modified expanded graphites (EGs)
- P T40 **Dominguez, S.-R.; Rybnicek, J.; Lach, R.**, *Valencia, Spain; Prague, Czech Republic; Halle, Germany*
Scratch resistance of PA6 nanocomposites
- P T41 **Sajjad, M.; Feichtenschlager, B.; Pabisch, S.; Svehla, J.; Koch, T.; Seidler, S.; Peterlik, H.; Kickelbick, G.**, *Vienna, Austria; Saarbrücken, Germany*
Properties of epoxy/SiO₂ - and epoxy/ZrO₂ - nanocomposites
- P T42 **Seifert, B.; Schadewald, A.; Arnold, M.**, *Weißandt-Gölsau, Germany*
Schaummaterialien auf Basis von Polyolefin-Plastisolen
- P T43 **Schmidt, C.**, *Leipzig, Germany*
Strahlenvernetzte Polyamide im Motorraum – Langzeitverhalten in Bezug auf Wärmealterung sowie Schwindungsverhalten dieser Werkstoffe
- P T44 **Solomatin, D.V.; Kuznetsova, O.P.; Prut, E.V.**, *Moscow, Russia*
Model rubber powder based on ethylene propylene diene monomer with different composition
- P T45 **Sushko, R.; Guenet, J.M.**, *Strasbourg, France*
Flocculation behavior of biohybrid polymer stars
- P T46 **Szustakiewicz, K.; Kiersnowski, A.; Gazińska, M.; Zabska, M.; Pigłowski, J.**, *Wrocław, Poland*
High filled nanocomposites based on functionalized polyethylenes and organobentonites
- P T47 **Yurkov, G.Y.; Elkin, P.K.; Ovchenkov, E.A.; Koksharov, Y.A.; Bolbukh, Y.M.; Bouznik, V.M.**, *Moscow, Russia; Kiev, Ukraine*
Magnetic polytetrafluoroethylene composites containing iron nanoparticles
- P T48 **Zabska, M.; Gadera, B.; Szustakiewicz, K.; Kiersnowski, A.; Pigłowski, J.**, *Wrocław, Poland*
The morphology and mechanical properties of nitrile rubber/liquid rubber/organoclay composites prepared by reactive processing
- P T49 **Zepnik, S.; Ahmad, T.; Kopitzky, R.; Michels, C.; Radusch, H.-J.**, *Oberhausen and Halle, Germany*
Thermal and rheological properties of external plasticized cellulose acetate (CA) for physical foam sheet extrusion
- P T50 **Bieliński, M.; Czyżewski, P.**, *Bydgoszcz, Poland*
The influence of bottom wall thickness on non-dilatational strain of a plastic screw cap

- P T51 **Sadowski, B.; Zimniak, J., Bydgoszcz, Poland**
Composite materials manufactured from recycled materials with special acoustic properties
- P T52 **Alexanyan, K.; Rogovina, S.; Prut, E., Moscow, Russia**
Biodegradable blends of starch of different nature with synthetic polymers: Production, structure and properties
- P T53 **Ali, Z.; Le, H.H.; Ilisch, S.; Radusch, H.-J., Lahore, Pakistan; Halle, Germany**
Elastomer polarity driven morphology development and clay localization in organoclay filled rubber blends nanocomposites
- P T54 **Artsis, M.I.; Bonartsev, A.P.; Iordanskii, A.L.; Bonartseva, G.A.; Zaikov, G.E., Moscow, Russia**
Biodegradation and medical application of microbial poly(3-hydroxybutyrate)
- P T55 **Ganjaee Sari, M.; Moradian, S.; Stribeck, N.; Zeinolebadi, A.; Bastani, S., Tehran, Iran; Hamburg, Germany**
Modification of polypropylene by grafted polyester-amide-based dendritic nanostructures with the aim of improving dyeing-ability
- P T56 **Hähndel, A.; Radusch, H.-J.; Loos, R.; Schneller, A., Halle and Ludwigshafen, Germany**
Properties and structure after ageing of melt-processed and modified poly(3-hydroxy butyrate)
- P T57 **Hanke, T.; Heilmann, A., Halle, Germany**
Biaxial cruciform-test for modeling of ethylene-tetrafluoroethylene copolymer foils
- P T58 **Hintze, C.; Wiessner, S.; Wagenknecht, U.; Heinrich, G., Dresden, Germany; Eindhoven, The Netherlands**
Compounding and processing studies of rubber compounds reinforced by short aramid fibres with different surface treatments
- P T59 **Hutař, P.; Ševčík, M.; Knésl, Z.; Nezbedová, E.; Lach, R.; Grellmann, W., Brno, Czech Republic; Halle, Germany**
Influence of weld morphology on failure of polymer pipes under creep loading
- P T60 **Wortberg, J.; Busmann, M.; Janas, M., Duisburg, Germany**
Simulation of the blown film extrusion process based on a self-calibrated model
- P T61 **Kucera, J.; Sadilek, J., Brno, Czech Republic**
Properties of hot compacted sheets from polypropylene films or fabrics
- P T62 **Kurzidim, F., Hannover, Germany**
Continuous production of thermoplastic vulcanizates - influence of process parameters and process
- P T63 **Lach, R.; Hutař, P.; Vesely, P.; Nezbedova, E.; Knesl, Z.; Koch, T.; Bierögel, C.; Grellmann, W., Halle, Germany; Brno, Czech Republic; Vienna, Austria**
Assessment of the local mechanical behaviour of joints in polymer parts
- P T64 **Prut, E.V.; Kuznetsova, O.P.; Solomatin, D.V., Moscow, Russia**
Effect of rubber powder on rheological behavior of thermoplastic elastomers

- P T65 **Ranft, F.; Drummer, D.; Hörber, J.; Amesöder, S., Erlangen, Nuremberg and Gunzenhausen, Germany**
Application of thermal conductive polymers for molded interconnect devices
- P T66 **Frick, A.; Sich, D.; Stern, C.; Schlipf, M., Aalen and Bietigheim-Bissingen, Germany**
Moldflon® – the new class of melt processable PTFE
- P T67 **Thürling, K.; Bach, S.; Majschak, J.-P.; Nase, M., Dresden and Weißandt-Gölzau, Germany**
Influence of material parameters on the ultrasonic sealing behavior of polymer films for packaging
- P T68 **Thust, T.; Haberstroh, E.; Giese, U., Hannover, Germany**
Adhesive strength of injection moulded thermoplastic/rubber composite parts: Influence of process parameters and material properties
- P T69 **Kotter, I.; Jäger, S.; Grellmann, W.; Mecklenburg, T., Merseburg, Halle and Frankfurt, Germany**
Polypropylene glass-fiber composite materials – Influence of fiber orientation on mechanical values as a function of medial and thermal loading
- P T70 **Weber, M.; Heckmann, W.; Staal, B., Ludwigshafen, Germany**
ABS/PA-alloys: Correlation between mechanical performance and compatibilisation chemistry
- P T71 **Kamper, A.; Ilisch, S.; Le, H.H.; Radusch, H.-J., Halle, Germany**
PC/ABS blends optimized by a hybrid filler system
- P T72 **Müller, M.; Chen, L.; Wagner, M.H.; Huynh, Q.-U.; Uhlmann, E.; Sabi, T.; Ewert, P., Berlin, Germany**
Developing processes for μ -structuring of polymer stents
- P T73 **Bieliński, M.; Sykutera, D., Bydgoszcz, Poland**
Properties of polypropylene porous parts and their recycle
- P T74 **Tartakowska, D.J.; Tartakowski, Z.; Müller, M., Berlin, Germany; Szczecin, Poland**
New composites based on recycled PSU modified with postproduction waste materials of carbon fibre reinforced PAEK
- P T75 **Oßwald, K.; Ilisch, S.; Le, H.H.; Reincke, K.; Kirbs, J.; Radusch, H.-J.; Grellmann, W., Merseburg and Halle, Germany**
Kautschuktechnologie im Kunststoff-Kompetenzzentrum Halle-Merseburg

Special Symposium: Polymers in Energy Engineering

- P E1 **Meier-Haack, J.; Butwilowski, W.; Schlenstedt, K.; Quetschke, A.; Vogel, C., Dresden, Germany**
Sulfonated poly(phenylene sulfone)s with poly(ether sulfone) soft-segments
- P E2 **Niedermeier, M.A.; Perlich, J.; Kaune, G.; Memesa, M.; Gutmann, J.S.; Müller-Buschbaum, P., Garching and Mainz, Germany**
Hierarchically structured titania films for application in photovoltaics

- P E3 **Strubl, R.; Heinemann, K.; Schicke, R., Rudolstadt and Wernigerode, Germany**
Entwicklung alternativer Protonen leitender Polymermembranen auf der Basis modifizierter Polyoxadiazole für den konzeptionellen Einsatz in der Brennstoffzellentechnologie
- P E4 **Rawolle, M.; Sarkar, K.; Prams, S.M.; Zhong, Q.; Lellig, P.; Memesa, M.; Gutmann, J.S.; Perlich, J.; Roth, S.V.; Müller-Buschbaum, P., Garching, Mainz and Hamburg, Germany**
Controlled titania sponge structures templated with block copolymers for applications in inorganic-organic photovoltaics
- P E5 **Wallner, G.M.; Grabmayer, K.; Oreski, G., Linz and Leoben, Austria**
Physical characterization of EVA embedding materials for solar cells
- P E6 **Weps, M.; Kretzschmar, T., Halle, Germany**
Characterization of new multilayered composites for photovoltaic systems

Special Posters

- P S1 **Bechtold, G., Bonn, Germany**
Polymer research in the Deutsche Forschungsgemeinschaft (DFG; German research foundation)
- P S2 **Radusch, H.-J.; Rödel, T., Halle and Merseburg, Germany**
The Polymer Competence Center Halle-Merseburg
- P S3 **Ilisch, S.; Schülert, G., Halle and Hamburg, Germany**
20 Jahre Deutsche Kautschuk-Gesellschaft e.V. (DKG) Bezirksgruppe Ost
- P S4 **Grellmann, W., Halle and Merseburg, Germany**
PSM – Polymer-Engineering, Schadensanalyse, Materialdesign
- P S5 **Michler, G.H.; Grellmann, W., Halle and Merseburg, Germany**
Stiftung "Akademie Mitteldeutsche Kunststoffinnovationen" (AMK)
- P S6 **Wehrspohn, R.; Weidisch, R., Halle, Germany**
Kein Gegensatz: Praxisnahe Forschung für die kunststoffverarbeitende Industrie in Mitteldeutschland