



Room	Großer Saal	Kleiner Saal	Hörsaal	Marta-Fraenkel-Saal	SR 9	SR 5	SR 3	SR 2
<b>Chair person</b>	<b>Petra Pötschke</b>							
08:30 – 09:15	<b>PLENARY LECTURE Daniel Hanoch Wagner</b> Bio-inspired hierarchical composites using carbon nanotubes (CNTs) and carbon nanotube fibers (CNTFs)							
09:15 – 09:30	Presentation of upcoming PPS meetings							
<b>Chair person</b>	XXX XXX	XXX XXX	XXX XXX	XXX XXX	XXX XXX	XXX XXX	XXX XXX	XXX XXX
9:40 – 10:10	<b>S06-79</b> <b>G. Titomanlio</b> Mechanical characterization of iPP injection molded samples on multiple length scales	<b>S06-354</b> <b>K. Lamnawar</b> Polyurethane investigation and fundamental studies on interface / interphase in multilayered polymer systems towards better controlling coextrusion process	<b>S08-394</b> <b>Y. Martinez-Rubi</b> Polyurethane composite sheets incorporating BNNTs and CNTs at high loading; Morphological, mechanical and electrical characterization and advantages of the fabrication method	<b>S04-364</b> <b>Q. Wang</b> Preparation and thermal processing of functional poly(vinyl alcohol) based micro / nanocomposites	<b>S05-197</b> <b>D. Go</b> In-situ observation of multiple-necking behavior in continuous cold drawing of PET filaments in ethanol	<b>S01-154</b> <b>B. Vergnes</b> Preparation by melt compounding of composites reinforced by natural fibers: From breakage mechanisms to process optimization	<b>S02-207</b> <b>V. Gigante</b> Extruded blends of PLA and PBAT: Correlation between composition and fracture behaviour	<b>S03-10</b> <b>E. Herrera Valencia</b> On the pulsating flow behavior of a biological fluid: Human blood
	<b>Keynote</b> 							
10:10 – 10:30	<b>S06-17</b> <b>Q. Yang</b> Tailored microstructures and properties of microinjection moulded isotactic polypropylene / poly(ethylene terephthalate) blends	<b>S06-339</b> <b>M. Andretzky</b> A new joint product made of PCM and plastic for application in water-powered heat storage systems manufactured by a coextrusion process	<b>S08-396</b> <b>E. Brandley</b> Alignment study of CNT veils and the influence on their composites	<b>S04-113</b> <b>T. Watanabe</b> Antistatic properties of transparent plastics using a donor-accepter molecular compound antistatic agent	<b>S05-175</b> <b>J. Wellekötter</b> Recycling of composites – A new approach minimizes downgrading	<b>S01-173</b> <b>A. Mostafa</b> The influence of mixing parameters on the properties of micron-sized blast furnace slag filled PP compounds	<b>S02-411</b> <b>H. Garmabi</b> Improvement of rheological and mechanical properties of PLA by reactive blending with poly(MMA-g-GMA)	<b>S03-163</b> <b>D. Raps</b> Rheological behaviour of a high melt strength polypropylene at elevated pressure and gas-loading
10:30 – 10:50	<b>S06-47</b> <b>Y. Spörer</b> Crystallization behavior of injection molded semi-crystalline thermoplastics	<b>S06-240</b> <b>M. Langlotz</b> Single screw foam extrusion with low pressurized blowing agents	<b>S08-324</b> <b>J. Castro</b> Ultrasonic processing of multifunctional epoxy composites reinforced by low-cost MWNT nanopaper	<b>S04-119</b> <b>S. Konagaya</b> Study on effect of organic compounds with OH group on conductivity enhancement of poly(3,4-ethylene-dioxythiophene) doped with poly(styrene sulfonic acid) (PEDOT:PSS)	<b>S05-232</b> <b>M. Längauer</b> Study of infrared sheet heating for thermoforming fiber-reinforced thermoplastic composite parts	<b>S01-170</b> <b>A. Venkatesh</b> Melt processing of cellulose nanofibrils and amphiphilic copolymer based bio-composites	<b>S02-155</b> <b>L. Goebel</b> Development of a block copolymer for impact modification of poly-hydroxyalkanoate (PHB)	<b>S03-46</b> <b>B. Jakob</b> Following phase transitions with rheometry and simultaneous Raman-spectroscopy
10:50 – 11:10	<b>BREAK</b>							
<b>Chair person</b>	XXX XXX	XXX XXX	XXX XXX	XXX XXX	XXX XXX	XXX XXX	XXX XXX	XXX XXX
11:10 – 11:40	<b>S06-57</b> <b>J. Onken</b> Integrative simulation of weld line strength in unreinforced amorphous thermoplastics	<b>S11-90</b> <b>Ph. Coates</b> In-situ X-ray structure measurements of polymers during die-drawing	<b>S08-393</b> <b>J. Vilatela</b> CNT yarns in structural composites	<b>S04-284</b> <b>M. C. Paiva</b> Nanostructured films of natural polymers and graphene derivatives	<b>S05-27</b> <b>F. Reinders</b> Modelling the stretching of polypropylene films by a nonlinear spring dashpot model	<b>S01-219</b> <b>J. Rudloff</b> Analysis of the process behavior of co-kneaders	<b>S02-131</b> <b>P. Cassagnau</b> Efficient hydrosilylation reaction in polymer blending: An original approach to structure PA12 / PDMS blends at multiscales	<b>S03-367</b> <b>R. Gupta</b> Effects of morphology and rheology on nylon 6 glass fiber composites
	<b>Keynote</b> 							
11:40 – 12:00	<b>S06-125</b> <b>M. B. Baradi</b> Mechanical characterization of frontal and flowing weld lines in injection-molded short fiber-reinforced thermoplastics	<b>S11-61</b> <b>M. Rahammer</b> Local defect resonance excitation thermography for damage detection in plastic composites	<b>S08-214</b> <b>N. Kchit</b> Strategies for carbon nanotubes incorporation in structural composites	<b>S04-182</b> <b>R. Hartmann</b> Tailored wood strand plastic composites for high performance applications	<b>S05-92</b> <b>K. Egoshi</b> The evaluation of biaxial stretchability of polypropylene films by a newly developed test machine	<b>S01-225</b> <b>O. Celik</b> A novel experimental setup for characterization of dispersive mixing in single-screw extruders	<b>S02-178</b> <b>J. Heyn</b> Structure properties relationships of PA6 / EOR blends	<b>S03-43</b> <b>N. Laufer</b> Effects of interparticle interactions on the flow behaviour of low density polyethylene filled with various fillers
12:00 – 12:20	<b>S06-290</b> <b>A. Geyer</b> Enhancing the weld line strength of injection molded components by means of a new molding tool technology	<b>S11-42</b> <b>M. Schilling</b> Environmental stress cracking of PE-HD induced by liquid media – FNCT testing	<b>S08-374</b> <b>M. T. Müller</b> Nanostructured glass fiber sensor yarns for structural health monitoring	<b>S04-105</b> <b>H.-J. Radusch</b> Deformation behavior of polylactide relating to plastic forming processes	<b>S05-144</b> <b>T. Kanai</b> Dynamics and structure development for biaxial stretching PA6 films	<b>S01-147</b> <b>H.-J. Luger</b> Influence of the screw configuration in a co-rotating twin screw extruder on the rheological and mechanical properties of a talc-reinforced polypropylene	<b>S02-25</b> <b>M. Malekmohammad</b> Compatibilization effect of silica nano particles on rheology, morphology and mechanical properties of immiscible PA6 / LDPE blends	<b>S03-12</b> <b>O. Abakar Adam</b> Design, structuration and rheological properties of laponite based polymeric nanocomposites
12:20 – 12:40	<b>S06-459</b> <b>M. Kreutzbruck</b> Comparison of different ultra-sonic methods for weld line characterization	<b>S11-8</b> <b>W. Essig</b> Non-contact inline monitoring of thermoplastic CFRP tape quality using air-coupled ultrasound	<b>S08-402</b> <b>H. de Luca</b> Continuous production of carbon nanotube-grafted quartz fibers: Effect of carbon nanotube length on fiber / matrix adhesion	<b>S04-159</b> <b>A. Scholten</b> Use of recycled waste paper as fiber reinforcement for PP – Relationship of fiber extraction process and mechanical properties of the composites	<b>S05-132</b> <b>M. Mehranpour</b> Preparation of intelligence barrier films based on low density polyethylene and evaluation of its properties	<b>S01-41</b> <b>V. Hristov</b> Melt homogenization in co-rotating twin-screw extruders: Design of a novel kneading disk	<b>S02-271</b> <b>L. Delva</b> Compatibilization of PET-PE blends for the recycling of multilayer packaging foils	<b>S03-186</b> <b>J.-M. Haudin</b> Shear-induced crystallization of polymers: Discussion on the coupled mechanical and structural effects
12:40 – 13:00	<b>S06-417</b> <b>A. Porsch</b> Knowledge-based material selection for injection-molded, thermoplastic parts	<b>S11-165</b> <b>T. Pflock</b> Dielectric analysis for online cure monitoring: Correlation with thermal and rheological properties of epoxy resins	<b>S08-301</b> <b>M. Mehranpour</b> Hybrid nanocomposite as strain sensor on the base of SBS / CNT / RGO	<b>S04-76</b> <b>S. Caba</b> Application of desert sands as reinforcing material for polymer concrete	<b>S05-400</b> <b>D. B. Anthony</b> Crack arrest in finger jointed thermoplastic polyethersulfone film interleaved carbon fiber reinforced composites	<b>S01-19</b> <b>K. Scharr</b> Investigation of the temperature development within the solid conveying zone of twin-screw extruder based on the discrete element method (DEM)	<b>S02-143</b> <b>C. Burgstaller</b> The influence composition on the properties of polyethylene based blends	<b>S03-373</b> <b>M. Salami Hosseini</b> Prediction of final crystal morphology of semi-crystalline polymers using phase field modeling (PFM)

**S01** Mixing and compounding

**S02** Polymer Blends and Alloys

**S03** Rheology and Process Simulation

**S04** Functional, Nano and Bio Composites

**S05** Fibers, Films and Foams

**S06** Injection Molding and Extrusion

**S07** Elastomer Materials and Processing

**S08** Nanocarbon Based Composites, CNPComp2017

**S09** Polymer Modification with Ionizing Radiation



**S10** Nano- and Microstructured Surfaces and Films

**S11** In-line Analytics and Process Monitoring

**S12** Welding and Joining Technology

**S13** Polymer Materials for Medical Applications

**S14** Additive Manufacturing

Room	Großer Saal	Kleiner Saal	Hörsaal	Marta-Fraenkel-Saal	SR 9	SR 5	SR 3	SR 2
13:00 – 14:00	<b>LUNCH</b>							
<i>Chair person</i>	XXX XXX	XXX XXX	XXX XXX	XXX XXX	XXX XXX	XXX XXX	XXX XXX	XXX XXX
14:00 – 14:30	<b>S06-347</b> <b>L. Woo II</b> Simulation of the mold structure for reducing cavity filling deviation in micro injection molding	<b>S11-198</b> <b>B. Praher</b> Inline melt homogeneity measurement in injection molding	<b>S08-399</b> <b>N. Rubio-Carrero</b> Engineering graphene with polymers for the preparation of nanocomposites	<b>S04-142</b> <b>B. Thomson</b> Orthopaedic compression screws formed from body-temperature reverting, shape-memory polymers	<b>S05-329</b> <b>A. S. Walallavita</b> Biopolymer foam blends of poly(lactic acid) and Novatein® thermoplastic protein	<b>S01-82</b> <b>K. Matsumoto</b> New screw design induced extensional flow for enhancement of CNT dispersion in PP matrix through twin-screw extruder	<b>S13-2</b> <b>S.-J. Liu</b> Biodegradable 3D printed bone anchoring bolts to enhance tendon-bone healing	<b>S03-270</b> <b>C. Holzer</b> Strain-dependent upscaling method in dissipative particle dynamics simulations of nanoparticles orientation under shear
<i>Keynote</i> 								
14:30 – 14:50	<b>S06-64</b> <b>S. Zhou (A. Hrymak)</b> Microinjection molding of carbon filled polypropylene nanocomposites: The effect of filler type on electrical and morphological properties of micro-moldings	<b>S11-89</b> <b>A. Geyer</b> Material characterization in the injection molding process	<b>S08-140</b> <b>S. Colonna</b> In-situ polymerization of poly(butylene terephthalate) in presence of graphene-related materials: Effects of nanoparticles structure and defectiveness	<b>S04-222</b> <b>C. Kahl</b> Advanced short fiber composites with hybrid reinforcement based on glass and cellulose fibers – Effect of coupling agent on mechanical properties	<b>S05-13</b> <b>X. Liao</b> Crystals in-situ induced by supercritical carbon dioxide as bubble nucleation agents on foam structure controlling of poly(L-lactic acid)	<b>S01-209</b> <b>J. Heyn</b> Interaction between coolant polyamide 6.6, glass fibers and additives	<b>S13-134</b> <b>M. El Fray</b> Electrospinning of spring-like fibers from elastomeric copolyesters	<b>S03-49</b> <b>D. V. Perumal</b> Correlation of steady shear rheology and morphology of nylon 6 glass fiber composites
14:50 – 15:10	<b>S06-328</b> <b>Y. Chen</b> Preparation and microinjection molding of polyoxymethylene / molybdenum disulfide nanocomposite	<b>S11-325</b> <b>T. Scheffler</b> Determination of the flow and curing behavior of highly filled phenolic injection molding compounds by means of spiral mold	<b>S08-419</b> <b>B. Schumm</b> Carbon nanoparticle surface modification for thermoplastic polymers	<b>S04-210</b> <b>J. Büttler</b> Investigation of the interface of polyamide-polypropylene laminates	<b>S05-174</b> <b>M. Fafara</b> Radiation-based pre-foaming of expandable polystyrene beads (EPS)	<b>S01-298</b> <b>V. Ojijo</b> Water assisted extrusion of PA / South African bentonite nanocomposites: A process cost saving perspective	<b>S13-231</b> <b>F. Küng</b> Influence of the molar mass on the suture retention properties of polycaprolactone	<b>S03-101</b> <b>J. Domurath</b> Viscosity amplification in dilute suspensions of rods in a Carreau matrix fluid
15:10 – 15:30	<b>S06-6</b> <b>S. Zhou</b> Microinjection molding of polypropylene / multi-walled carbon nanotubes nanocomposites	<b>S11-26</b> <b>S. Joas</b> CFRP pipe inspection by using air coupled ultrasound	<b>S08-384</b> <b>K. Kröning</b> Functionalization of carbon nanotubes (CNTs) by using different oxidative agents and characterization with regard to functionalization efficiency	<b>S04-29</b> <b>J. R. Robledo-Ortiz</b> Fiber surface treatment to increase the fiber content and mechanical properties of rotomolded coit-LM-DPE and agave-LMDP composites	<b>S05-340</b> <b>R. Pantani</b> Foam injection molding of magneto sensitive polymer composites	<b>S01-343</b> <b>L. Chen</b> Exfoliation of layered zirconium phosphate nanoplatelets by melt compounding	<b>S13-262</b> <b>B. Shriky</b> Injectable hydrogels for controlled release drug delivery	<b>S03-215</b> <b>J.-F. Agassant</b> Rheology of industrial plastisol formulations
15:30 – 15:50	<b>S06-351</b> <b>M. Babenko</b> Study of the factors affecting heating mechanism in ultrasound microinjection moulding		<b>S08-148</b> <b>K. Enomoto</b> Effect of UV-enhanced oxidation on tensile strength of carbon nanofiber reinforced polyamide 11	<b>S04-128</b> <b>A. Bajpai</b> Tailored epoxy system modified with block co-polymer, core shell rubber and hybrid: Mechanical properties and fracture mechanisms	<b>S05-246</b> <b>A. Javadi</b> The effect of nano calcium carbonate on mechanical properties, crystallinity and foam ability of PLA / starch / epoxidized soybean oil (ESO) blends	<b>S01-263</b> <b>K. Khodabakhshi</b> Mechanical properties of plasticized poly(lactic acid) with epoxydized soybean oil	<b>S13-436</b> <b>A. Kelly</b> Investigation of immiscible polymer blends to control drug release rate of polymeric pharmaceutical compounds	<b>S03-309</b> <b>W. Friesenbichler</b> Viscosity measurements for rubber compounds usings slit-die rheometry
15:50 – 16:20	<b>BREAK</b>							
<i>Chair person</i>	XXX XXX	XXX XXX	XXX XXX	XXX XXX	XXX XXX	XXX XXX	XXX XXX	XXX XXX
16:20 – 16:40	<b>S06-383</b> <b>E. Abdelkhalik</b> Investigation on the influences of injection moulding process parameters on the short-shot filling of polymeric micro features	<b>S11-185</b> <b>H. Bayazian</b> Degradation of bimodal distribution polypropylene and polyethylene during the extrusion process	<b>S08-7</b> <b>J. Schawe</b> Characterization of the nucleation efficiency of carbon nanotubes for polymer crystallization	<b>S04-426</b> <b>J. Labuschagne</b> Layered double hydroxide applications – Industry vs. research	<b>S05-275</b> <b>D. Rath</b> Fine-tuning the properties of expandable polystyrene (EPS)	<b>S01-299</b> <b>A. Greco</b> Cardanol derivatives as effective plasticizers for polylactic acid	<b>S13-218</b> <b>D. Schubert</b> Failure of silicone breast implants – Novel insights on the mechanical properties of implant shells	<b>S03-123</b> <b>M. S. Kamal</b> Rheological properties of polyacrylamide and amido amine-based cationic gemini surfactant solutions
<i>(no keynote)</i>								
16:40 – 17:00	<b>S06-93</b> <b>H. Ito</b> Evaluation of physical properties and surface microstructures replication of liquid silicone rubbers obtained by reactive injection molding	<b>S11-454</b> <b>E. M. Troisi</b> Structure evolution during film blowing: An experimental study using in-situ small angle X-ray scattering	<b>S08-397</b> <b>J. P. Fernandez-Blazquez</b> Polar polymorphs characterization by synchrotron X-ray diffraction of annealed CNT fiber / PVDF composites	<b>S04-415</b> <b>M. Trampe</b> Polyamide GnP nanocomposites for permeation control	<b>S05-118</b> <b>H. Naguib</b> Shock damping properties of out-of-plane reinforced composites with functionality graded syntactic foams	<b>S01-67</b> <b>B. N. Can</b> PBAT / thermoplastic starch blend: "Concentration of OTPS and comparison with TPS"	<b>S13-86</b> <b>S. Noorzai</b> Optimization of collagen extraction from various cattle species hide by comparative methods	<b>S03-260</b> <b>G. Peters</b> Full characterization of multi-phase, multi-morphological kinetics in flow-induced crystallization of iPP at elevated pressure
17:00 – 17:20	<b>S06-229</b> <b>M. Sorgato</b> Effects of different mold surface coatings on the ejection force in micro injection molding	<b>S11-470</b> (End 17:30)  <b>keynote</b> <b>D. Fischer</b> In-line analytics of the content, the dispersion and the nano-structuration process of polymer nanocomposites during extrusion	<b>S08-302</b> <b>J. Bai</b> The influence of thermal treatments on dielectric behaviors of carbon nanotubes-BaTiO3 hybrids reinforced polyvinylidene fluoride composites	<b>S04-387</b> <b>M. Esfandeh</b> Preparation, mechanical properties and moisture absorption of urethane acrylate resin / clay nanocomposites	<b>S05-313</b> <b>I. Barbara</b> Synthesis of porous polymers by emulsion templated step-polymerization	<b>S01-48</b> <b>S. Rabonpoor</b> Synergistic effect of fire retardant additives on fire behavior of cross-linkable polyolefin compounds toward intumescent compounds	<b>S13-233</b> <b>B. Stafiej</b> Transparency and suture ability of alginate hydrogel reinforced nano-fiber scaffolds	<b>S03-268</b> <b>W. Takarada</b> Effect of thermal history on crystallization behavior of polyethylenes in high-speed DSC measurements
17:20 – 17:40			<b>S08-416</b> <b>M. Reza Saeb</b> An investigation on cure kinetics of epoxy / MWCNTs nanocomposites through isothermal calorimetric and rheological analyses	<b>S04-35</b> <b>M. Mörl</b> Influence of 1,3,5-benzenetrisamide based additives on the morphology and mechanical properties of isotactic polypropylene	<b>S05-124</b> <b>G. Pircheraghi</b> Assessment of particles interface welding quality in microporous structures fabricated by sintering process		<b>S13-88</b> <b>Ph. Coates</b> Property distribution and property gradient polymer products for enhanced functionality	<b>S02-380</b> <b>S. Abdollahi</b> Structural and electrochemical properties of PEO / PAN / graphene nano-fibrous blends
19:00 – 22:00	<b>GALA DINNER &amp; BOAT TOUR</b> (19:00 Boarding • 19:30 Departure)							

<b>S01</b> Mixing and compounding
<b>S02</b> Polymer Blends and Alloys
<b>S03</b> Rheology and Process Simulation
<b>S04</b> Functional, Nano and Bio Composites
<b>S05</b> Fibers, Films and Foams
<b>S06</b> Injection Molding and Extrusion
<b>S07</b> Elastomer Materials and Processing
<b>S08</b> Nanocarbon Based Composites, CNPComp2017
<b>S09</b> Polymer Modification with Ionizing Radiation
<b>S10</b> Nano- and Microstructured Surfaces and Films
<b>S11</b> In-line Analytics and Process Monitoring
<b>S12</b> Welding and Joining Technology
<b>S13</b> Polymer Materials for Medical Applications
<b>S14</b> Additive Manufacturing

