THURSDAY · JUNE 29 · 2017

Room	Großer Saal	Kleiner Saal	Hörsaal	Marta-Fraenkel-Saal	SR 9	SR 5	SR 3	SR 2
Chair person	*Sven Wiessner*							
08:30 – 09:15	**PLENARY LECTURE** **Tim A. Osswald** Modeling and simulating polymer processes – History, capabilities and challenges							
Chair person	*xxx xxx*	*xxx xxx*	*xxx xxx*	*xxx xxx*	*xxx xxx*	*xxx xxx*	*xxx xxx*	*xxx xxx*
9:30 – 10:00 *Keynote*	**S06-453** **T. Smit** Numerical analysis of the fountain flow instability	**S08-332** **H. Mianehrow** Mechanical properties of cellulose nanofibers-graphene oxide biocomposite	**S08-158** **V. Lison** New insights from the optimization of melt mixing parameters in polypropylene/multi-walled carbon nanotubes nanocomposites	**S04-37** **Y. Nishitani** Effect of addition of filler on the tribological properties of CF / PEEK composites	**S05-184** **R. Hufenus** Structural response of poly(3-hydroxybutyrate) fibers to heat and stress	**S01-252** **M. Sobkowicz Kline** Reactive compatibilization schemes for high speed twin screw extrusion of polymer blends	**S07-462** **G. Heinrich** Challenges in rubber processing: Learning from game theory and complex systems	**S09-464** **S. Rouif** Functionalization of flax fibers by radiation-grafting
10:00 – 10:20	**S06-190** **F. Willems** The use of micromechanical models to predict fiber reinforced plastics	**S08-359** **A. Hajian** Functional nanocomposites based on cellulose and carbon nanotubes	**S08-305** **G. Choong** Challenges to the industrial melt-processing of conductive plastics: Can post-processing produce cost-effective conductivity uplifts?	**S04-149** **M. Cordin** Properties of lyocell-poly-propylene composites	**S05-300** **C. B. Park** Strain-induced crystallization of PLA and PP in extrusion	**S01-139** **J. Benz** Reactive extrusion of PA6 – Different ways to increase the viscosity	**S07-307** **F. Verheyen** Analysis of the extrusion process of silicone rubber	**S09-372** **N. Kuksanov** DC high power electron ELV accelerators for polymer treatment
10:20 – 10:40	**S06-456** **F. Paolucci** In-situ X-ray analysis during flash DSC experiments: Study of isothermal crystallization and phase transformation of polyamide 12	**S08-404** **Q. Li** Lightweight metal composites reinforced by surface-decorated nanocarbon	**S08-353** **A. Lund** Electrically conducting CNT / polymer composites towards 3D-printed electronics	**S04-77** **K. Landsecker** Investigation on the thermo-formability of heat conductive polymers	**S05-39** **C. McGarrigle** Effect of extrusion parameters and nanofillers on mechanical properties of PEEK stitching yarns	**S01-366** **B. C. Bonse** Glycerol as plasticizer in PVC	**S07-238** **T. Hutterer** Simulative and experimental investigation of productivity improvements obtained through rapid heat cycle molding of different rubber compounds	**S09-445** **C. Zschech** In-line edge layer modification of three dimensional sheet molding compounds
10:40 – 11:10	**BREAK**							
Chair person	*xxx xxx*	*xxx xxx*	*xxx xxx*	*xxx xxx*	*xxx xxx*	*xxx xxx*	*xxx xxx*	*xxx xxx*
11:10 – 11:40 *Keynote*	**S06-153** **H.-P. Heim** Integration of electrochromic devices in plastic parts by injection moulding	**S08-98** **S. Kenig** Orientation development of nanotubes during processing of polymer nanocomposites	**S08-376** **B. Fiedler** Mechanical and electrical properties of carbon nano-particle modified epoxy matrix with regard to the size effect	**S12-477** **M. Gude** Design of material adapted joints – Potentials and challenges in joining fiber reinforced thermo-plastics to dissimiliar materials at the example of thermoclinching	**S10-117** **H. Naguib** Bio-inspired textured composite surfaces with abrasionn resistance and high friction properties	**S01-87** **A. Ishigami** Toughening improvement of polyamide 6 with low molecular weight polyethylene	**S07-274** **N. Singha** A new class of thermoplastic elastomers via atom transfer radical polymerization and “click” chemistry	**S09-463** **O. Güven** Controlling of radiation-induced grafting at nanoscale for the preparation of advanced functional membranes
11:40 – 12:00	**S06-100** **D. Schneider** New approach for the efficient attainment of flame retardancy using multi component injection molding	**S08-466** **O. Istrate** The effect of graphene flake diameter on the performance of anti-corrosion coatings	**S08-279** **W. Mhike** Antistatic and flame retardant rotomouldable polymer graphite nanocomposites	**S12-111** **C. Tuinea-Bobe** Ultrasonic welding of polystyrene microinjected moulded components – Physicochemical and mechanical characterization	**S10-234** **R. Mukherjee** Confinement induced ordering of phase segregated domains in polymer blend thin film	**S01-85** **B. Formisano** Compounding anionic polymerized polyamide 6 using terephthalic acid	**S07-94** **T. Chatterjee** High performance thermoplastic vulcanizates based on carboxylated acrylonitrile butadiene rubber and polyamide 12	**S09-407** **S. Beuermann** Polymer electrolyte membranes from pre-irradiation induced graft copolymerization on ETFE
12:00 – 12:20	**S06-320** **G. M. Gulsozlu** Investigation of the relationship IR heating and injection molding parameters of composite laminates which shaped by over-molding technique	**S08-335** **S. Fisher** Rapid quantitative mapping of multi-walled carbon nanotube concentration in nanocomposites	**S08-434** **J. Blanco-Villalba** Improving the processability of graphene nanoplatelets in polyamide 6 during melt compounding extrusion	**S12-326** **M. Constantinou** Infrared welding of continuous fiber-reinforced thermoplastics – Investigations on overlapping joints	**S10-236** **A. Das** Morphological stability of nanoparticles containing polymer blends and bilayer thin films	**S01-99** **S. Göttermann** Modified polylactide with improved properties for extrusion foaming	**S07-121** **H. Naguib** Novel polyurethane elastomeric composites reinforced with alumina, aramid, and poly(p-phenylene-2,6-benzobisoxazole) short fibers, development and characterization of the thermal and dynamic mechanical properties	**S09-109** **S. S. Banerjee** Influence of reactive processing on nanomechanical properties of polyamide 6 and its blends

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 Manufactoring

PPS 2017 June 26–29 Europe Africa Conference

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12:20 – 12:40	**S06-363** **K. Anger** Construction of a pipe support with overmoulded metal insert	**S08-361** **M. Eaton** Nanoprobe investigations of viscoelastic behavior in elastomeric nanocomposites	**S08-278** **S. M. Hamidinejad** Thermally conductive micro-cellular polymer nanocomposites of graphene nanoplatelets (GnP)	**S12-350** **E. Brueckner** Clinching and torsional ultra sonic welding – An innovative process combination for joining metal-polymer hybrid structures	**S10-84** **L. Kutscha** Determination of influencing factors on adhesion and surface quality in UV-based in-mold coating process of BMC	**S01-195** **J. Rosjatean** Friction characteristics improvement of ABS for low squeaking noises generating interior automotive parts	**S07-22** **C. Kiehle** Morphology-property-relationships of SEBS / PP compounds for medical application	**S09-448** **S. Al Rahhal** Melt spinning and characterization of matrix blend based on polypropylene and ethylene-octene copolymers modified by high energy electrons
12:40 – 13:00	**S06-392** **J. A. Puentes Parodi** Influence of hygro-thermal loads on the durability of thermoplastic-polyurethane-steel-hybrids	**S08-438** **J. Golebiowski** Polymeric CNT composites: Atomistic simulations of interfacial properties	**S08-435** **E. Moschopoulou** The effect of modified graphene variants on physical, mechanical and thermal properties of PP composites	**S12-382** **K. Hofmann** Joining polycarbonate – Manufacturing and evaluation of transparent joints using an innovative, objective test method	**S10-342** **N. Naveh** Physical coloring of multi-layered elastomeric structures	**S01-247** **K. Ragaert** Upcycling contaminated post-industrial PP through compounding: A design from recycling case study	**S07-431** **G. Riess** Novel silicone thermoplastic elastomers with tailored permeation properties	**S09-1** **R. Boldt** Process-induced morphology and mechanical properties of HD-PE
13:00 – 14:00	**LUNCH**							
Chair person	*XXX XXX*	*XXX XXX*	*XXX XXX*	*XXX XXX*	*XXX XXX*	*XXX XXX*	*XXX XXX*	*XXX XXX*
14:00 – 14:30 *Keynote*	**S06-273** **M. K. Schaefer** Automation of an ultrasound mixing head for low pressure resin transfer molding	**S08-81** **I. Manas-Zloczower** Fatigue and structural health monitoring of delamination in composite materials	**S08-66** **B. Grady** Nanotubes in immiscible polymer blends: Three studies		**S10-141** **J. Mead** Superhydrophobic polymer coatings: Effect of composition and thermodynamics on the surface morphology	**S01-439** (*no keynote*) **A. Javadi** Effect of blending methods on mechanical properties of PS / TPU blends	**S07-386** **A. Ziegmann** Evaluation of the crosslinking density and the mechanical properties of silicone elastomers filled with bariumtitanates of different particle sizes as dielectric elastomers	**S09-15** **M. Kaci** The effects of gamma irradiation on morphology and properties of nanocomposites based on PHBV / PLA blend and organo-modified montmorillonite
14:30 – 14:50	**S06-152** **S. Pachner** Smart data analysis for optimized manufacturing of powder coatings on co-rotating twin screw extruders	**S08-213** **F. Daver** Enhanced mechanical properties of carbon monoxide reduced graphene / polyamide 6 nanocomposites	**S08-181** **W. Focke** Polyethylene-graphite composites: Comparing cone calorimeter and micro-flammability test results	**S12-135** (*to be moved*) **C. Das** Effects of vibration welding process parameters on the weldability of the thermoplastics	**S10-256** **B. Bolvardi** Superhydrophobic and superoleophobic meshes coated by PDMS / ZnO nanocomposites or oil / water separation		**S07-317** **E. S. Bhagavatheswaran** Influence of ageing on the structure-property relationship of FKM, VMQ and EPDM rubber seals	**S09-444** **D. Xiao** Development and investigation of high performance fire retardant polypropylene composites
14:50 – 15:10	**S06-176** **M. Bruchmüller** Mechanical property model for fiber filled thermoplastics incorporating surface tension	**S08-18** **O. Regev** Stronger cement	**S08-369** **K. Jena** Morphology and mechanical properties of elemental sulfur reinforced nylon 12 / multi-walled carbon nanotubes (MWCNTs) composites		**S10-467** **P. Uhlmann** Multifuncional and responsive surfaces using nanostructured polymer brushes		**S07-308** **H. Muiambo** Flame retardant properties of polymer composites of urea complex of magnesium and vermiculite	**S09-475** **M. T. Müller** Influence of gas atmosphere on electron-induced cyclization of polyacrylnitrile powder at elevated temperature
15:10 – 15:30		**S08-476** **I. Kolaric** Process development for industrialization of CNT electrodes for electro active polymers	**S08-280** **M. R. Nobile** Rheological and dynamic mechanical behavior of epoxy resins filled with multiwalled carbon nanotubes and graphene-based nanoparticles				**S07-80** **N. Farshchi** Hansen solubility parameters as a tool to evaluate the compatibility potential of rubber process oils (DAE, TDAE, MES, and NAP)	
15:30 – 15:50		**S08-408** **H. Nazockdast** Rheologically determined the role of nanoparticle geometry on the morphological evolution of ABA block copolymers	**S08-403** **P. Lopes** Advanced electrically conductive adhesives for high complexity PCB assembly					
15:50	**CLOSING CEREMONY**							

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