Final program of Polymertec 26

Day 1: 17/06/2026

Time	Session 1	Session 2
09:00 – 09:30	Registration	
09:30 – 10:00	**Opening**	
	Plenary Lectures	
10:00 – 10:40	C. Patermann (Former Program Director at the European Commission) *Industrial Bioeconomy – From global to national – Hype or reality?*	
10:40 – 11:20	I. Oehme (Umweltbundesamt Dessau-Roßlau, Germany) *The European packaging regulation (PPWR) – New impetus for the circular economy of packaging*	
11:20 – 11:50	**Industrial Show-Cases**	
11:50 – 12:40	Lunch break	
	Biobased and Biodegradable Polymers	**Resource Efficiency und Sustainable Processing Technologies**
12:40 – 13:10	**Session Key Lecture** A. Mautner (BOKU University, Tulln an der Donau, Austria) *Multiple recycling of (bio-)polymer–wood composites*	**Session Key Lecture** B. Strehmel, V. Strehmel (PhoSuMa Photonic & Sustainable Materials GmbH, Annaburg/Germany) *Light-mediated crosslinking of green monomers with photoinitiators of the next generation based on sustainable processing technologies*
13:10 – 13:30	B. T. Hiller, D. Krieg, M. Nase, F. Puch (Hochschule Hof, Germany) *Wine by-products as sustainable additives for biopolyesters – Feasibility, reliability, optimization & transferability*	M. Moneke, K. Grünheide, E. Stuckert, H. Hofmann (Hochschule Darmstadt, Germany) *Development of high-impact grass fiber polypropylene composites*
13:30 – 13:50	I. I. Kleiber, C. K. Falkenreck, J.-C. Zarges, M. Nase, H.-P. Heim (Hochschule Hof, Germany) *Correlative fracture surface analysis of filled TPS/PBS blends using optical microscopy and micro-CT*	B. Tillner, S. Wüstenhagen, I. Jahn, P. Hirsch, M. Feldmann (Fraunhofer Institut für Mikrostruktur von Werkstoffen und Systemen, Halle/Germany) *Processing and analysis of sustainable continuous fiber-reinforced thermoplastic composites based on polyethylene terephthalate and carbon fibers*
13:50 – 14:10	M. Walther (Universität Oldenburg, Germany) *Sustainable polybutylene succinate production from organic waste*	M. Moreno (Hochschule Merseburg, Germany) *TiO_2 and ZnO atomic layer deposition as a biointerface foundry for antiseptic, regenerative, and immunomodulatory chitosan and polyamide scaffolds*
14:10 – 14:40	Break	
	Biobased and Biodegradable Polymers	**Polymer Characterization, Polymer Testing and Material Modelling**
14:40 – 15:10	**Session Key Lecture** P. Marques de Farias, M. Schmid (Hochschule Albstadt-Sigmaringen, Germany) *Hydrothermal engineering and stearoyl chloride grafting of babassu films for enhanced barrier performance*	**Session Key Lecture** J. Stampfl (Technische Universität Wien, Austria) *Heterogeneous photopolymers for additive manufacturing*
15:10 – 15:30	S. Lüneburg, S. Wüstenhagen, P. Hirsch, M. Feldmann (Sustainable Solutions GmbH, Leipzig/Germany) *Bio-based polybutylene succinate as a sustainable material alternative: From raw materials to textile applications*	R. Sattler, R. Zhang, R. Androsch, M. Beiner (Martin-Luther-Universität Halle-Wittenberg, Halle/Germany) *About strategies to improve the quality of 3D printed parts made from semi-crystalline polymers*
15:30 – 15:50	R. Merijs Meri, J. Zicans, R. Berzins, R. Berzina, I. Bockovs, Z. E. Ribens, I. Reinholds, A. Zarins, L. Avotina, A. Petrovs (Riga Technical University, Latvia) *Protein fibers for thermoplastic bio-based insulation materials*	O. Neudert, H. Asghari (GMBU e.V., Halle/Saale) *Development and characterization of EMI shielding and foamable electrostatic dissipative filaments for additive manufacturing*
15:50 – 16:20	Break	
	Biotechnological, Chemical and Material-related Recycling	**Polymer Characterization, Polymer Testing and Material Modelling**
16:20 – 16:50	**Session Key Lecture** C. Burgstaller (Fachhochschule Oberösterreich, Wels/Austria) *Recycling of short-fibre-reinforced thermoplastics*	**Session Key Lecture** T. Koch, F. Chalupa-Gantner, A. Ovsianikov, M. Lunzer (Technische Universität Wien, Austria) *It doesn't always have to be micro: Mechanical and thermo-mechanical properties of 2 PP processed macroscopic specimen*
16:50 – 17:10	P. Hirsch, S. Wüstenhagen, M. Feldmann (Fraunhofer Institut für Mikrostruktur von Werkstoffen und Systemen, Halle/Germany) *Recycling of bio-based polybutylene succinate – Current challenges and future prospects*	M. Kovář, E. Nezbedová (DMKtech s.r.o., Prague/Czechia) *The use of sandwich samples to estimate the lifetime*
17:10 – 17:30	M. Volf, M. Kovář, E. Nezbedová (Czech Technical University in Prague, Czechia) *Service life of PE-HD pipe types: Accelerated tests vs. structural evaluation*	H. Braune, T. Schülein, M. Wilhelm, J. Krückel (Karlsruher Institut für Technologie, Germany) *Effect of polypropylene (PP) impurities on the crystallization kinetics and tensile behavior of high-density polyethylene (PE-HD)*
17:30 – 18:00	**Poster Session**	
19:00	**Networking Event** – Location: Hotel Radisson Blue, Oberaltenburg 4, Merseburg	

Day 2: 18/06/2026

Time	Session 1	Session 2
08:30 – 09:00	Registration	
	Plenary Lectures	
09:00 – 09:40	B. von Vacano (Vice President, Plastics Circularity Research BASF) *Pathways to circularity – Technology, economic and societal dimensions of polymer recycling from an industry perspective*	
09:40 – 10:20	V.-M. Archodoulaki (Technische Universität Wien, Austria) *Challenges and limitations of mechanical recycling of polymers*	
10:20 – 10:40	Break	
	Biotechnological, Chemical and Material-related Recycling	**Polymer Characterization, Polymer Testing and Material Modelling**
10:40 – 11:10	**Session Key Lecture** F. Morales, G. Campos, C. Ramirez, C. Rosales, A. Costantino, M. J. Galante, E. Agaliotis, V. Pettarin (INTEMA, UNMdP/CONICET, Mar del Plata/Argentina) *Innovative engineering strategies to enhance polymer sustainability*	**Session Key Lecture** J. Jůza, I. Fortelný (Institute of Macromolecular Chemistry, Prague/Czechia) *Polymer blends compatibilization using block copolymers. Recent modifications and copolymer contents*
11:10 – 11:30	C. Doerffel, M. Schreiter, M. Spieler, T. Swoboda, M. Richter (Steinbeis Innovationszentrum Automation in Leichtbauprozessen, Chemnitz/Germany) *Ultrasonic separation for recycling of hybrid components*	M. Kernbach, D. V. Dao, Z. Evgrafova, J. Noetel, M. Krause (Hochschule Merseburg, Germany) *In-situ investigation of laser swelling in polymers*
11:30 – 11:50	R. Berzins, R. Merijs Meri, J. Zicans (Riga Technical University, Latvia) *Development of recycled polypropylene composites with naturally occurring rapeseed waste modified with cardanol derivates*	B. Gerets, K. Engelsing, R. Schlutter (SKZ – Das Kunststoff-Zentrum, Würzburg/Germany) *Characterization of the environmental stress-cracking behavior of low-density polyethylene blends and recycled materials*
11:50 – 12:40	Lunch break	
	Biotechnological, Chemical and Material-related Recycling	**Polymer Characterization, Polymer Testing and Material Modelling**
12:40 – 13:10	**Session Key Lecture** D. Heymel, S. Schröter, T. Rothgänger, M. Seitz (Hochschule Merseburg, Germany) *Catalytic cracking of plastic waste in a continuous scale*	**Session Key Lecture** A. Zankel, C. Mayrhofer, M. Nachtnebel, H. Fitzek, H. Schroettner (Technische Universität Graz, Austria) *Advances in ultramicrotomy for the microscopical and electron-microscopical investigation of polymeric materials*
13:10 – 13:30	H. T. Nguyen, H. Schmidt, M. Gadara, S. Gramsall, P.-T. Miclea (Martin-Luther-Universität Halle-Wittenberg, Halle/Germany) *Microplastic analysis in medical devices and biological samples using Raman spectroscopy and microscopy*	D. Schüsler, M. Wendt, O. Mashkov, D. Clark, O. Stroyuk, B. Jäckel, I. M. Peters, C. Buerhop-Lutz, A. Mordvinkin (Fraunhofer Institut für Mikrostruktur von Werkstoffen und Systemen, Halle/Germany) *Quantitative non-destructive monitoring of water ingress into polymer laminates*
13:30 – 13:50	M. Seitz, V. Cepus, L. Kuhle, M. Klätte (Hochschule Merseburg, Germany) *Potential and evaluation of solvolytic and solvent-based processes for recycling*	M. Sgraja, U. Giese, V. Cepus, J. Meier (Deutsches Institut für Kautschuktechnologie, Hannover/Germany) *Pressure dependence of viscosity in SBR compounds*
13:50 – 14:10	A. Rawal, D. Singh, S. Pandey, S. Shukla, A. K. Maurya, H. Saraswat, V. Khatkar, A. Kukovecz, T. Sykes (Indian Institute of Technology Delhi, New Delhi/India) *Mechanistic insights of microplastic release through fibre fragmentation*	A. Narayanan Ramakrishnan, I. Ries, J. G. Zhang, S. Schwan (Hochschule Merseburg, Germany) *Toolpath-driven finite element simulation with melt-pool-focused adaptive mesh refinement and thermal remapping for high-fidelity FDM modelling*
14:10 – 14:30	C. Sandten, M. Kreyenschmidt (Hochschule Münster, Steinfurt/Germany) *VOC analysis of polyether polyol polyurethane soft foams as a proxy for autoxidative degradation*	A. Narayanan Ramakrishnan, I. Ries, H. Ban, S. Schwan (Hochschule Merseburg, Germany) *AI-guided predictive adaptive mesh for finite element simulation of fused deposition modelling*
14:30 – 15:00	Break	
	Biobased and Biodegradable Polymers	**Polymer Characterization, Polymer Testing and Material Modelling**
15:00 – 15:30	**Session Key Lecture** S. P. Khatiwada, R. Pandit, N. Lal Bhandari, R. Lach, R. Adhikari (Tribhuvan University, Kathmandu/Nepal) *Study of morphological and micromechanical deformation behavior of PBS/PLA blends reinforced with natural fibers*	**Session Key Lecture** S. Podzimek (SYNPO, Pardubice/Czechia) *The use of online viscometer for the characterization of polymers: On the determination of molar mass, size and branching*
15:30 – 15:50	M. Sturm, M. Hogg, K. Eissenberger, J. F. Lübben, M. Schmid (Universität Albstadt-Sigmaringen, Germany) *From residual biomass to high-performance PEF Packaging: Scale-up pathways and food-contact demonstrators*	J. A. Rodríguez Agudo, D. Oppen, J. Haeberle, M. Biermann, M. Schäffler, J. Läuger (Anton Paar Germany GmbH, Ostfildern/Germany) *New perspectives for functional materials: Axial-torsional dynamic mechanical analysis meets Raman spectroscopy*
15:50 – 16:10	R. Lach, S. Henning, E. Putsch, I. Kotter, R. Adhikari, N.K. Parajuli, U. Thapa (Polymer Service GmbH Merseburg) *Morphology and improved mechanical behaviour of fully biobased polymer materials based on polybutylene succinate*	I. Kibet, M. Hammermeister, E. Stuckert, J. Wieser, A. Knieper, A. Lai (Hochschule Darmstadt, Germany) *Detecting variability in the flow behaviour of mineral fillers: A powder rheology-based approach to assess batch, handling, and environmental effects*
16:10 – 16:30	V. K. Minupala (Hochschule Merseburg, Germany) *Bio-based and natural fibre reinforced plastics as sustainable lightweight sandwich structures for urban electric vehicles*	M. Hammermeister, E. Stuckert, I. Kibet, J. Schmidt, J. Wieser (Hochschule Darmstadt, Germany) *Influence of bulk density distribution in a hopper on the flow behavior of talc*
16:30 – 17:00	**Awards and Closing**	