









KUNSTSTOFFVERARBEITUNG



KU LEUVEN

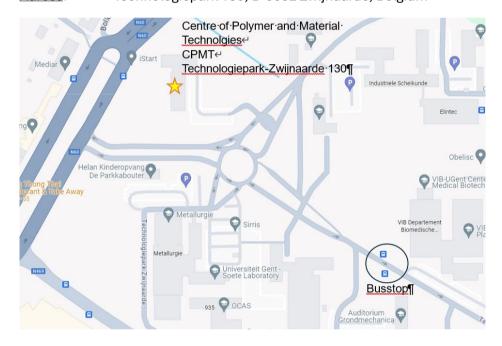
Program

Day 1 - September 18th 2024 15:00 - 17:00 Registration + welcome coffee @ Centre for Polymer and Material Technologies + Visit CPMT-facilities with sponsor demonstrations 17:00 - 18:30 Opening reception @ Centre for Polymer and Material Technologies

Venue Day 1

Centre for Polymer and Material Technologies (CPMT)

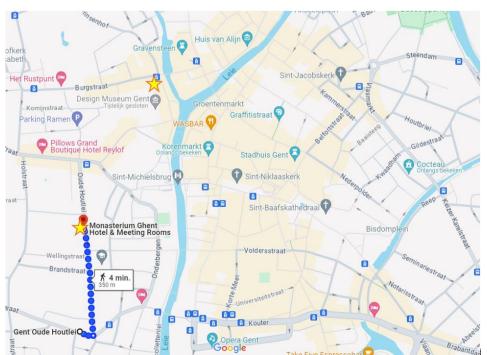
Adress: Technologiepark 130, B-9052 Zwijnaarde, Belgium



Venue Day 2 & 3

Monasterium PoortAckere

Adress: Oude Houtlei 56, 9000 Gent, Belgium



09:00 - 09:20 O 09:20 - 10:00 PI 10:00 - 11:00 Pa 10:20 Inv 10:40 Up 11:30 - 12:30 Pa 11:50 Re wi 12:10 Vi Ro 13:30 - 13:30 Li 14:10 - 15:10 Pa	Registration Opening Plenary - Room 1 Circularity indicators to assess the circularity in plastic products acropped for the product of the pr	Room 2 Polymer Processing Simulation 1 Coupled Matrix Monte Carlo Modeling to Support Polymeric Composite Production, Polymer Modification and Recycling - Y Marien (Ugent) Optimization of Injection Molding using Al: Numerical Modelling Surrogate Models based on ANN - Antonio Gaspar Cunha (UoM Numerical analysis of conformal cooling channels for small injection moulding inserts produced by additive manufacturing - Ana Ca Lopes (UoM) Room 2 Polymer Processing Simulation 2 Development of a theoretical prediction model for coefficient of friction - Angela Rodrigues (UoM) Micro Injection molding of polypropylene parts: morphology distribution dependence on the molding conditions – Sara Lipa (UNISA)	
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13:30 – 14:10 PI Fr - 14:10 – 15:10 Pa			
Fr - 14:10 - 15:10 Pa	Plenary - Room 1		
	Plenary - Room 1 From melt- to solid-stage polycondensation: how to revolutionize the design of sustainable polymers with advanced properties – prof. Jean-Marie Raquez (University of Mons)		
	Parallel Sessions		
l Ro	Room 1	Room 2	
	Developments in polymer processing 1	Sustainable Use of Polymers	
	Connecting Experimental and modeling approach for grafting of poly(lactic acid) during reactive extrusion - Simon Debrie (UGent)	Thermoforming of biocomposites with agrifood wastes and essoils - Ana F. Costa (UoM)	
	Developing Recycling Strategies for Expanded Polystyrene Packaging – Mariana Vala (UoA)	Enabling Closed Loop Plastics Processing - Tiago E. P. Gomes (
Va	Correlation of Stereo DIC and Thermographic Imaging to Monitor /acuum-Assisted Thermoforming of Thermoplastic Sheets - Rasoul /aredi (KULeuven)	Development of an underwater pelletizer for obtaining extruded recycled expanded polystyrene beads - Carlos M. Correia (UoA)	
	Coffee		
	Plenary - Room 1		
Pl	Plastics Circularity: Fundamentals and Innovation Challenges Herman Van Roost (Styrenics Circular Solutions)		
16:10 – 17:30 Pa	Parallel Sessions		
Ro	Room 1	Room 2	
	Developments in polymer processing 2	Polymer Rheology	
ра	Development of a production methodology based on rheological parameters for robotic extrusion additive manufacturing of hermoplastic materials - Artur Costa (UoM)	Experimental viscosity measurements on gas-laden polymer m Ward A. R. Vandaele (KULeuven)	
	nsights into kinetics and mechanism of polymerization reactions via nline Raman spectroscopy - Stanislav Kasakov (ThermoFischer)	Advancing Mechanical Performance of 3D Printed Lattice Structure via Rheological Optimization: A Doehlert Experimental Design S Laia Farras Tasias (UGent)	
	ong chopped natural fiber biocomposites: Micro-Processing and characterization - Nursel Karakaya (Xplore)	Comparative study on PA12 and PA11 degradation for HP Multi J Fusion process - Chiara Fiorillo (UGent)	
de	Morphology, conformation, and thermal-mechanical properties levelopment in solid-state processed Polymer materials - Davide Nocita (QUB)	Additive Manufacturing sensor design for energy harvest and ac recognition – Maofan Zhou (UGent)	
	nd of conference day 2		

08:30 - 09:00	Registration			
09:00 - 09:40	Plenary - Room 1			
	3D Printing of Polymer Covalent Adaptable Networks – prof. Hesheng Xia (Sichuan University)			
09:40 – 11:00	Parallel Sessions			
	Room 1	Room 2		
	Additive Manufacturing 1	Moulds and Mould Making Innovations A		
09:40	Mechanical Recycling and stabilization of ABS from post-consumer Electric and Electrical Equipment (EEE) waste for filament production for FFF applications - Christina Podara (NTUA)	Assessing Geometric Deviations in Plastic Parts: A Study between Conventional and Conformal Cooling Channels in Metal Molds Produced by Additive Manufacturing - Alexandre M. Popiolek (UFSC)		
10:00	A preliminary study on the flow-induced crystallization phenomenon in 3D printing of Polyvinylidene fluoride - Erika Lannunziata (UTorino)	Balancing heat extraction rates on injection moulding tools through smart temperature control design - Sofia B. Rocha (UoA)		
10:20	Charaterization and Computational modelling of 3D printed structure via fused filament fabrication - Yiyun Wu (UoA)	Optimizing Ejection of PLA-Based Compounds from Hot Core- Shell Molds: Experimental Investigation and Process Modelling - Hadi Saniei (UNISA)		
10:40	L-PBF of aluminium: mass reduction and hybrid manufacturing of an aeronautic part - António J. Pontes (UMinho)	Developments in the Rotational Moulding of Hydrogen Tank Liners – Alex Pritchard (QUB)		
11:00 – 11:30	Coffee			
11:30 – 12:30	Parallel Sessions			
	Room 1	Room 2		
	Additive Manufacturing 2	Moulds and mould making innovations B: Hybrid Moulds		
11:30	Design for additive manufacturing - Alvaro Sampaio (Uminho)	Influence of different surface coatings on polymeric inserts for hybrid injection molding of reinforced PBT - Sérgio J. Rodrigues (UoM)		
11:50	Process and material guidelines for large-scale additive manufacturing in part production: a case study between PP and ABS - Afonso Santos (Uminho)	Study of thermoplastics polymers applied to the extrusion additive manufacturing for naval industry moulds - P.J. Novo (PoL)		
12:10	PLLA phase study by Fused Filament Fabrication - Artur Beata (UoA)	Investigation of the injection molding process using different concepts of molds: i) conventional cooling, ii) conformal cooling, iii) molds with high thermal conductivity (CuBe) - Janaína de Carvalho (UFSC)		
12:30 – 13:30	Lunch Break			
13:30 – 14:10	Plenary - Room 1			
	Hybrid flax and self-reinforced PLA (polylactic acid) non-woven preform for lightweight – Chung-Hae Park			
14:10 – 15:10	Parallel Sessions			
	Room 1	Room 2		
	Trends in Product Development 1	Polymeric Composites 1		
14:10	Study of pine resin collection bag properties to develop a more environmentally friendly system - Rita Fonseca (PoL)	Exploring the Thermal and Mechanical characteristics of Polymer with Recyclable Fillers: A Case Study – Pedro Martinho (PoL)		
14:30	How do we go from PO (Polyolefins) in PMD bags in Belgium to recycled products - Veerle Balcaen (ECOO)	Manufacturing of PA-based filaments reinforced with chopped carbon fibres for 3D printing applications - Artemis Kontiza (NTUA		
14:50	Advanced design of meta-structures through additive manufacturing: A Review - João Ferreira (UoA)	Biopolymer filament with coffee silver skin for Fused Filament Fabrication (FFF) printing - Ana C. Machado (UoM)		
15:10 – 15:40	Coffee			
15:40- 16:20	Parallel Sessions			
	Room 1 Trends in Product Development 2	Room 2 Polymeric Composites 2		
15:40	PLA degradation during single screw extrusion: predicting the effect of PLA-grade, die geometry and screw design on the molecular weight - Ineke Velghe (KULeuven)	Sustainable carbon fiber precursors produced from lignin blended with biobased polyamides - Sofie Huysman (Centexbel)		
16:00	Design and Development of a Capillary Blood Collection Device for Global Disease Diagnosis and Monitoring - José Almeida (Uminho)	Design For Manufacturing – The Integrated Workflow - Victor Tsai (Simpatec)		