

PTF BPI 2025: Programme – Version 15.9.2025

Wednesday, September 17th			
17.00 – 19.00 Pre-Registration			
Thursday, September 18th			
08-00 – 09.00 Registration of participants			
09.15 – 9.45 Opening ceremony (Rectorate, Head of Department, Head of R&R, Head of Technology, UT, FPS, IUFRO, IAWS)			
10.00 – 10.30 Keynote 1		Scale Up and Industrialisation of a Novel Processing Technology to Recover Value from Waste MDF	Rob Elias , Craig Bartlett, Luca Ballarin (UK/Italy)
10.30 – 11.00 Coffee and Tea Break			
11.00 – 11.30 Keynote 2		Current Research on Durable Fire Protection of Wood for Exterior Applications	Holger Militz , Johannes Karthäuser, Muting Wu (Germany)
11.30 – 12.00 Keynote 3		The Future of AI in Wood Processing and the University of Tennessee School of Natural Resources Data Science Institute	Donald G. Hodges , Timothy M. Young (USA)
12.00 – 12.30 Keynote 4		Log Supply Gap – Quo Vadis?	Jörn Rathke (Germany)
12.30 – 13.30 Lunch Break			
		Title	Authors
Parallel sessions 13.30 – 15.00	Session 1: Functionalization of wood and wood-based materials (Part 1) Room: E17 Chair: Eugenia Mariana Tudor	Tannin Foams: Are They Biodegradable?	Jonas Eckardt, Paolo Carletti, Robert R. Junker, Jakub Grzybek, Gianluca Tondi (Italy/Slovenia)
		Modification of Wood Using Lactic Acid	Miklós Bak , Róbert Németh, Mátyás Báder (Hungary)
		Influence of Wood Surface Properties on Inkjet Dot Formation for In-Forest Traceability Labelling	Sepideh Moradivandkolehjoui , Stefan Pinkl, Wolfgang Gindl-Altmutter, Martin Riegler (Austria)

		Functionalization of Wood surfaces with Atmospheric Pressure Plasma Deposition – New Applications for Bio-based Materials	Jürgen Glettler , Jürgen Markus Lackner, Christoph Jocham, Maximilian Stummer (Austria)
		Mechanical Properties of Oriented Strand Board Including Softwood Strands Obtained from an Innovative Strander-Canter	Rosilei Garcia , Alain Cloutier, Irsan Aliprja, Roger Hernández, Ahmed Koubaa (Canada)
		Production and Characterization of New Composite Filaments from Polylactic Acid and Ligno-Cellulosic Residues for 3d Printing Using Fused Deposition Modeling	Stefan Kain , Thomas Sepperer, Lukas Sommerauer, Maurizio Musso, Thomas Schnabel, Alexander Petutschnigg (Austria)
	Session 2: Advanced characterization of wood and biomass (Part 1) Room: E15 Chair: Robert Nemeth	A Conductive Biochar Produced by Various Treated Hemp Stalks	Ayfer Dönmez Çavdar , Turgay Kar, Sedat Keleş, Sevda Boran Torun, Murat Erta (Türkiye)
		Comparative Study of Fiber Characteristics in Mature and Juvenile Heartwood of black locust (<i>Robinia pseudoacacia</i> L.)	Fath Alrhman Awad Ahmed Younis , Róbert Németh (Hungary)
		Evaluating Termite Resistance: A Comparative Study of Birch and Eucalyptus Plywood	Haruna Seidu , Bak Miklos, Németh Róbert (Hungary)
		Comparative Anatomical and Physical Analysis of Tree Bark from various tree species	Hiba Khalifa , Róbert Németh (Hungary)
		Technological Potential of Branch Wood Fibres for Engineered Wood Products	Maximilian Pramreiter, Christoph Kurz, Jakob Wassermann, Johannes Konnerth, Tobias Nanning (Austria)
		What is the Potential of Using Wood-residues to Help Decarbonise the Long-distance Transport Sector, Particularly Aviation?	Jack (John) N Saddler , Susan van Dyk (Canada)
	15.00 – 15.30 Coffee and Tea Break		
		Title	Authors
Parallel sessions 15.30 – 17.00	Session 3: Functionalization of wood and wood-based materials (Part 2)	Fungal Pigments for Staining of Forest Products Materials	Lukas Sommerauer , Thomas Schnabel (Austria)
		Correlation Between Colour Stability and Extractive Content of Wood Species During Photodegradation	László Tolvaj , Mátyás Báder, Róbert Németh (Hungary)

	Room: E17 Chair: Martin Weigl-Kuska	Possibilities of Core Layer Modifications in Three Layer Particleboard	Roman Reh , Dominik Hrusovsky (Slovakia)
		Flame-retardant Oriented Strand Board by Addition of Biogenic Compound	Daniel Hafner (Germany)
		Thermal energy storage using phase-change materials (PCM) embedded in wood: opportunities and challenges	Jakub Grzybek , Zuzana Paschová, Thomas Schnabel (Slovenia/Czechia/Austria)
		Optimizing Mechanical Performance of Wood-Plastic Composite Through Particle Size Control	Sergej Medved, Ayman Mounir, Timothy Young , Leif Steuernagel (Slovenia/Germany/USA)
	Session 4: Advanced characterization of wood and biomass (Part 2) Room: E15 Chair: Holger Militz	Investigation of Protective Coating Formation in the Bethell Process on Beech and Oak Wood Under the Influence of Pre-vacuum Modification	Luca Buga-Kovács , Norbert Horváth (Hungary)
		Influence of Selected Process Parameters on the Composition of VOC Emissions in a Fiber-drying System for the MDF Production	Vladimir Nedić , Andreas Paul, Lubos Kristak, Marius Catalin Barbu (Germany/Slovakia/Austria/Romania)
		Evaluation of Nail and Screw Withdrawal Resistance in Quercus Cerris (Turkey Oak)	Mátyás Báder , Róbert Németh, Sándor Kovács (Hungary)
		European Paulownia Wood for Light Weight Composites	Katarina Buresova, Paul Röllig, Helmut Radauer, Markus Kathriner, Eugenia M. Tudor, Marius Cătălin Barbu (Austria/Germany/Romania)
18.00 – 22.00 Get-together			

Friday, September 19th			
		Title	Authors
Session 08.00 – 10.00	Session 5: Adhesion and Adhesives Room: E17 Chair: Milan Sernek	Application of Polyurethane Adhesive in Laminating Furniture Elements with Cores Made From Particleboard Cutting Waste	Dobrian Dobriyanov , Valentin Yonchev (Bulgaria)
		Bio-based Adhesives for Particleboard and MDF	Hendrikus W.G. van Herwijnen , Catherine Rosenfeld, Wilfried Sailer-Kronlachner, Pia Solt-Rindler, Johannes Konnerth (Austria)
		Improving Adhesion by Plasma Pre-Treatment of Wood Surfaces"	Milan Šernek , Jure Žigon (Slovenia)
		Water Vapor Transport Challenges Across Structural Wood Adhesive Interfaces	Omar Saber Zinad, Csilla Csiha (Hungary)
		Investigation of Adhesion Properties of Red Eucalyptus Wood in Relation to Its Chemical Composition	Omar Saber Zinad , Csilla Csiha (Hungary)
		Optimizing Laminated Timber Bonding with Casein-Based Adhesives	Emil Farcaș, Eugenia Mariana Tudor , Marius Cătălin Barbu (Austria/Romania)
		Interlayer Adhesion in the Production of Innovative Honeycomb Panels	Barbara Lis, Maciej Tokarczyk, Tomasz Krystofiak (Poland)
		Citric Acid/Sorbitol Adhesive System for Particleboards: Strengths and Weaknesses	Sergej Medved, Luka Kopač, Miha Humar, Boštjan Lesar, Dennis Jones (Slovenia)
10.00 – 10.30 Coffee and Tea Break			
Session 10.30 – 12.30	Session 6: Circular Bio-based Materials Room: E17 Chair: Csilla Csiha	Circularity in Solid Wood Industry – Availability, Recovery, Quality And R-Strategies for Reclaimed Timber	Martin Weigl-Kuska , Christina Fürhapper, Kaspar Albrecht, Simon Winter (Austria)
		Moving Towards Circularity – Perspectives for Wooden Windows	Christina Fürhapper , Martin Weigl-Kuska (Austria)
		Cascade Use of Waste Wood from Underground Coal Mines for Manufacturing Medium-Density Fibeboards	Viktoria Dudeva , Viktor Savov, Petar Antov, Yuliyana A. Aleksandrov (Bulgaria)
		Lightweight Panels from Hemp Shives and Fibers: A Cascade Use Approach to Agro-industrial Resources	Viktoria Dudeva , Georgi Ivanov, Viktor Savov, Petar Antov (Bulgaria)

		From Waste Lignocellulosic Fibres to Functional 3D Biodegradable Packaging	Bartłomiej Mazela (Poland)
		Circular Timber Strategies in Norway: Advancing Reuse in Construction	Kristine Nore, Lone Ross (Norway)
		Development of Resource Efficient Manufacturing of Cross Laminated Timber Wall Components through Optimization of Cutting Waste and with Regard to the Circular Use of Resources	Stephan Kaiser , Anton Kraler (Austria)
		Improving Bark-Based Panel Quality by Morphological Fractionation, Size Reduction, Fiber Re-agglomeration and Rapid Wet Processing	Jakob Gößwald , Marius Cătălin Barbu, Eugenia Mariana Tudor, and Pavel Král (Germany/Romania/Austria/Czechia)
		Research Project CO2For-IT	Volker Labudda (Germany)
Lunch packets are available starting with the morning break ...			

Poster Session

Thursday 08.00 - start Friday 12.00 - end Room E16	Title	Authors
	Building Blocks Produced from Wood Fibreboard Waste and Bio-polyester	Michael Altgen , Peer Thorben Lewandowski, Erik Larnøy (Norway)
	Microbiological Behaviour of New Biobased Materials for Construction	Katharina Plaschkies , Kordula Jacobs (Germany)
	Strength Characteristics of Three-Layer Furniture Elements with Particleboard Cutting Waste Core	Krasimira Atanasova , Dimitar Angelski, Dobriyan Dobriyanov, Tsacho Tschachev (Bulgaria)
	A Novel UHF-RFID Application for Timber Traceability in Mechanized Forestry Operations	Emma Heyen , Kristof Grosser, Oliver Petrovic, Werner Herfs (Germany)
	Salzburg Center for Smart Materials 2.0 – Sustainable and Regional Materials Development	Thomas Sepperer , Thomas Schnabel (Austria)
	DRWO4.0: A Transnational Model for Digital Transformation in the Forest-Based Industry	Lukas Sommerauer , Jakub Grzybek, Thomas Schnabel (Austria)
	Innovative Materials with Fungal Mycelium	Maren Gramitzky , Thomas Schnabel (Austria)

	Biodegradable films based on apple pectin and food waste: material development and characterization	Theresa Zimmermann (Austria)
	The Austrian Apprenticeship Program in National and International Comparison	Patrick Staubmann , Felix Prändl, Hermann Huber (Austria)
	The Virtual Wood University Master Project	Günter Berger (Austria), Arnaud Besserer (France), Jaan Kers (Estonia), Bartłomiej Mazela (Poland), Erika Olofsson (Sweden), Åsa Rydell Blom (Sweden), Hubert Speth (Germany), Andrea Stübner (Germany), Ilkka Tarvainen (Finland), Vjekoslav Zivkovic (Croatia)