



Rzeczpospolita
Polska



Unia Europejska
Europejski Fundusz Społeczny



Integrated research and teaching system for the implementation of additive technologies BPI/PST/2021/1/00092

Workshop No. 1.2.:

Characterization of biomaterials – destructive and non-destructive methods, assessment of physicochemical properties (14.11. - 18.11.2022 TU Chemnitz; Reichenhainer Straße 31/33, 09126 Chemnitz, Room Nr. 110)

	Monday	Tuesday	Wednesday	Thursday	Friday
	14.11.2022	15.11.2022	16.11.2022	17.11.2022	18.11.2022
9:00	Anreise	Welcome Coffee Presentation and visiting laboratories of TU Chemnitz SLK Dipl.-Ing. Tomasz Osiecki	Presentation and visiting of the MERGE Technology Centre Dipl.-Ing. Tomasz Osiecki	MERGE Presentation and visiting of the Injection moulding facilities Dip.- Ing. Sebastian Buschbeck	MERGE Presentation and visiting of the Extrusion Facilities Dip.- Ing. Sebastian Buschbeck
10:30		Opening Welcome Prof. Dr. Lothar Kröll	Presentation and visiting of the MERGE Fibre composite laboratory	Presentation and Visting Laboratory for Thermal Analysis	Experimental investigations on extrusion of biomaterials
11:00		Coffee break	Coffee break	Coffee break	Coffee break
11:15		Work in groups	Work in groups	Work in groups	Work in groups
12:00		Visit: Presentation and visiting of 3D printing laboratories Dipl.- Ing. Frank Schubert	Destructive Testing II in MERGE Technology Centre: Tensile, compression, bending and torsion tests with different test specimens made of biomaterials Dipl.- Ing. Daniel Kühnreich	Non Destructive Testing: Investigations on the thermal properties of biomaterials: TGA Dr. Susann Anders	Discussion and summary of the workshop: Conclusion of the characterization of biomaterials
13:00	Registration	Lunch& Meeting with industrial representants	Lunch	Lunch	Lunch& Closing Ceremony
14:00	Welcome Ceremony	Investigation of the manufacturing of samples from biomaterials by using 3D printing Dipl.- Ing. Frank Schubert	Destructive Testing II in MERGE Technology Centre: Tensile, compression, bending and torsion tests with different test specimens made of biomaterials Dipl.- Ing. Daniel Kühnreich	Non Destructive Testing: Investigations on the thermal properties of biomaterials: DSC, DMA Dr. Susann Anders	
15:00	Reception	Coffee break	Coffee break	Coffee break	
15:15		Destructive Testing I: Rotary impact tester for dynamic tests Conclusion and summary	Collaborative evaluation of all destructive tests Summary and conclusion	Collaborative evaluation of all thermal properties Summary and conclusion	
16:00		End of the Workshops' day	End of the Workshops' day	End of the Workshops' day	

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