

Repair3D Summer School

Plastics Recycling towards 3D Printing Applications



Recycling and Repurposing of Plastic Waste for
Advanced 3D Printing Applications

DAY 1: Tuesday, 13th of September

Time	Presentation	Speaker
9.00	Departure from hotel (at Lavrion/Sounion)	
Introductory Session		
9.30-10.00	Welcome to the Repair3D Summer School 2022	Isella Vicini-WH (Project Coordinator) Prof. Costas Charitidis -NTUA (Scientific Coordinator) Assimakis Chadoumelis -LTCP (Summer School Organiser)
10.00-10.30	Introduction to EU Framework	Stefania Melandri - WH
10.30-11.00	Innovation and IPR Management	Bojan Boskovic - CNAT
11.00-11.30	Introduction to Repair3D Project	Dr. Tanja Kosanovic - NTUA
11.30-12.00	<i>Coffee Break</i>	
Recycling Session		
12.00-12.45	KeyNote: Plastics Circularity in EU	Marjan Ranogajec– EuPC (invited)
12.45-13.30	Current Practices and New Trends of Plastics Waste Management and Recycling Technologies	Prof. Ludwig Cardon - UGENT
13.30-14.00	Innovation Towards New Plastics for Improving Recyclability	Dr. Sophie Martin – IRT J. VERNE
14.00-14.45	<i>Lunch Break</i>	
14.45-15.15	Circularity tracking and awareness through RFID and blockchain	Sara Cavinato – TECHEDGE
Practical Session <i>(5 groups of 7 students each)</i>		
15.15-15.35	Fused Filament Fabrication 3D printing: Quantification of airborne exposure hazards	Ioanna Gkoni - IRES
15.35-17.15	Shredding, Extrusion, Characterisation Activities, 3D Printing Activities, Emissions Measurements	NTUA, LTCP, BIOG3D, IRES, ITENE
17.30-20.00	Free time in Lavrion City	NTUA, LTCP
20.00	Dinner at “To Steki tou Mina”	Offered by LTCP

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DAY 2: Wednesday, 14th of September

Time	Presentation	Speaker
09.30-09.45	Welcome to the Repair3D Summer School 2022 Day 2 Opening of the Agenda	Dr. Vasilis Protonotarios – LTCP (Summer School Organiser)
Product Development Session: Customer products developed via 3D printing technologies		
09.45-10.30	Automotive parts produced via Advanced 3D Printing Technologies with recycled materials and Topological Optimization Workflow	Marah Baddour – UGENT Oriol Bertomeu - LEITAT
10.30-11.15	Designing with lattices in 3D printing, as an efficient and sustainable strategy	Dr. Xavier Tutó - LEITAT
11.15-11.45	<i>Coffee</i>	
11.45-12.30	Carbon materials used in 3D Printing Technologies for sensing applications	Dr. Sofie Huysman- CENTEXBEL Dr. Kate Trompeta – NTUA
Cultural Session		
12.30-13.30	Visit at Lavrion Museum - Tour at Technological Park	
13.30-14.30	<i>Lunch Break</i>	
14.30-15.30	Visit at Lavrion Museum - Tour at Technological Park	
15.30 – 16.00	<i>Coffee</i>	
Interactive Session		
16.00-16.45	Design for AM: Introduction, main principles and case study	Vaia Tsiokou, Panagiotis Zouboulis - BIOG3D
16.45-17.30	Plastic packaging in the food industry: Legislation Framework	Mytilinaios Ioannis, Stratos Komaitis - YIOTIS