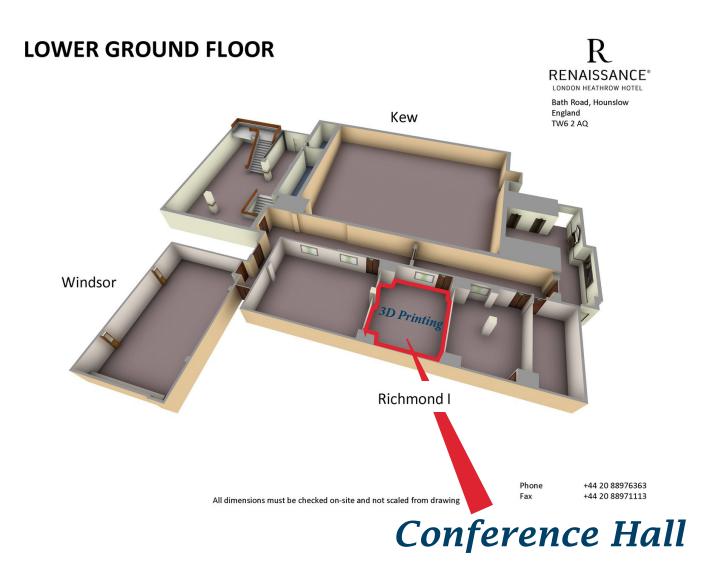


3D PRINTING & ADDITIVE MANUFACTURING

October 07-08, 2024 | London, UK

Coalesce Research Group 33 Market Point Dr, Greenville, SC 29607, USA **Contact Us: Phone:** +1-718-543-9362 **Whatsapp:** +1-864-275-0927







Wi-Fi Details:

Username: Marriott Guest Password not required - Open Wi-Fi

Scientific Program

Day 1 - October 07, 2024		
	Meeting Hall: Richmond Suite I	
08:00 - 08:45	Registrations	
08:45 - 09:00	Opening Ceremony and Introduction	
	Keynote Presentations	
9.00 - 9.40	Binder Jetting Powder Bed Additive Manufacturing followed by Reactive Infiltration Assisted Sintering of Metal/Ceramic Heating Elements	
	Alexander Katz-Demyanetz, Israel Institute of Materials Manufacturing Technologies, Israel	
9.40 - 10.20	3D Nanoprinting – Possibilities, Strategies and Applications	
	Harald Plank, Graz University of Technology, Austria	
	Networking & Refreshments: 10.20 - 11.00 @ York Lobby	
11.00 - 11.40	Thixotropic Metal Processing and 3D Printing of Zinc and Magnesium Bio-Alloys for Biomedical Implant Applications	
	Jack Zhou, Drexel University, USA	
	Oral Presentations	
Session Chair:	Hamid Mehrabi, University of Sunderland, UK	
Session Chair:	Jack Zhou, Drexel University, USA	
Sessions:	Metal 3D Printing 3D Printing Materials Polymers in 3D Printing 3D Bio Printing Clinical applications of 3D Printing in Orthopedics and Traumatolo- gy 3D Printing 3D Printing Future Technology Challenges in 3D Printing Innovations, Design & Future Technology in 3D Printing	
11.40 - 12.05	A Construct To Perform <i>In situ</i> Deformation Measurement of Material Extrusion Fabricated Structures	
	Daniel Nelson, United States Air Force Test Pilot School, USA	
12.05 - 12.30	Mechanical Factors that affect the Stability and Sustainability of 3D Printed and 3D Bioprinted Objects	
	Maria Mavri, University of the Aegean, Greece	
12.30 - 12.55	Investigations into Polymer Bonding During the Fused Filament Fabrication Process and its Effect on Mechanical Properties	
	Julian Klingenbeck, University of the Bundeswehr Munich, Germany	
	Group Photo: 12.55 - 13.10	
	Lunch: 13.10 - 14:00 @ Market Garden Restaurant	
14.00 - 14.25	The Use of Fibers in the Production of Geopolymers using the 3D Printing Method	
	Szymon Gadek, Cracow University of Technology, Poland	
14.25 - 14.50	Experimental Analysis of Thermal Properties and Microstructural Evolution of Ti-6Al-4V during LPBF Printing	
	Johannes Rottler, University of the Bundeswehr Munich, Germany	
14.50 - 15.15	Numerical Investigation of Porous Structures for Additive Manufacturing in Biomedical Applications	
	Babak Ziaie, Atlantic Technological University, Ireland	

15.15 - 15.40	Processability of Aluminium Alloys by Pbf -Lb/M Additive Manufacturing			
	Ignacio González-Barba, University of Seville, Spain			
15.40 - 16.05	The Additive Manufacturing Transformation: Empowering Manufacturing with 3D Printing			
	Wilderich Heising, Boston Consulting Group (BCG), Germany			
	Networking & Refreshments: 16:05 - 16:30 @ York Lobby			
Poster Presentations				
Poster Judges	Alexander Katz-Demyanetz, Harald Plank, Hamid Ahmad Mehrabi and Jack Zhou			
3DP-01	A Structure-properties Assessment of Co-28Cr-6Mo Alloy Manufactured by Laser Powder Bed Fusion (LPBF)			
	Yuliia Chabak, Institute of Materials Research of Slovak Academy of Science, Slovakia; Pryazovskyi State Technical University, Ukraine			
3DP-02	Structure and Tribological Behaviour of "(TiC+WC)/Hardened Steel" Particulate Metallic Matrix Composite Additively Manufactured by Pulsed-plasma Spraying			
	Vadym Zurnadzhy, Institute of Materials Research of Slovak Academy of Science, Slovakia; Pryazovskyi State Technical University, Ukraine			
3DP-03	Marine Propellers Printed in Metal 3D Printing Technology			
	Joanna Kulasa, Łukasiewicz Research Network – Institute of Non-Ferrous Metals, Poland			
3DP-04	Research on the Development of a Bearing Shells Production Technology by Applying a Sliding Layer in the 3D Printing Process using the Wire Arc Additive Manufacturing Method			
	Anna Brudny, Łukasiewicz Research Network – Institute of Non-Ferrous Metals, Poland			
3DP-05	Development of The on-Line Reading Oxidative Potential System using Resin-Based 3D Printing Technology			
	Antonio Toto, University of Lausanne, Switzerland			
3DP-06	CFD Modeling of strand Deposition Flow in Robocasting for Geopolymer-Based Composites			
	Abrar Gasmi, Laboratoire des Technologies Innovantes, France			
3DP-07	Multiscale <i>In situ</i> Quantification of the Role of Surface Roughness and Contact Area using a Novel Mica-PVS triboelectric nanogenerator.			
	Jack Perris, University of Glasgow, UK			
3DP-08	Stereolithography Printing for the Fabrication of Flexural Ultrasonic Sensors with Significantly Enhanced Operational Bandwidth			
	Mahshid Hafezi, University of Glasgow, UK			
	Day-1 Concludes followed by Award Certifications			

	Day 2 - October 08, 2024		
	Meeting Hall: Richmond Suite I		
Keynote Presentations			
9.00 - 9.40	Comparative Analysis of Investment Cast Inconel 625 with Atomic Difusion Additive Manufacturing		
	Hamid Ahmad Mehrabi, University of Sunderland, UK		
9.40 - 10.20	Design, Simulation, and Experiments for Direct Thixotropic Metal 3D Printing		
	Jack Zhou, Drexel University, USA		
	Networking & Refreshments: 10.20 - 10.45 @ York Lobby		
10.45 - 11.25	Development and Performance Evaluation of Cement Systems for Aerial Additive Manufacturing		
	Richard J Ball, IMPS Bath University, UK		
	Oral Presentations		
Session Chair	Alexander Katz-Demyanetz, Israel Institute of Materials Manufacturing Technologies, Israel		
Session Chair	Harald Plank, Graz University of Technology, Austria		
Sessions:	Metal 3D Printing 3D Printing Materials Polymers in 3D Printing 3D Bio Printing Clinical applications of 3D Printing in Orthopedics and Traumatolo- gy 3D Printing 3D Printing Future Technology Challenges in 3D Printing Innovations, Design & Future Technology in 3D Printing		
11.25 - 11.50	Effect of Pulsed Plasma/Laser Surface Modification on Structure and Tribological Behaviour of 316L Steel: Wrought vs. Laser Powder Bed Fusion		
	Efremenko V, Institute of Materials Research of Slovak Academy of Science, Slovakia; Pryazovskyi State Technical University, Ukraine		
11.50 - 12.15	3D Printing Parameters for Leakproof Capsules – Additive Encapsulation of PCM		
	Miguel Moreira, University of Aveiro, Portugal		
12.15 - 12.40	Advancements in 3D Printing of Ceramic-Like Geopolymers		
	Abrar Gasmi, Laboratoire des Technologies Innovantes, France		
12.40 - 13.05	Evaluation of Additive Manufacturing Feasibility in the Energy Eector: A Case Study on Gas-insulated High-voltage Switchgear		
	Elham Haghighat Naeini, Hitachi Energy, Poland		
	Lunch: 13.05 - 14:00 @ Market Garden Restaurant		
14.00 - 14.25	Numerical Investigation of Inkjet Based Bioprinting of Viscoelastic Liquids		
	Rahul Pundora, Indian Institute of Technology Jodhpur, India		
14.25 - 14.50	3D Edible Printing: Food-grade Materials with Binder Jetting Printers		
	Shahnaz Mansouri, Monash University, Australia		
	Networking & Refreshments: 16:00 - 16:30 @ York Lobby		
Da	y-2 Concludes followed by Vote of Thanks and Certificate Felicitations		

Virtual Program

	Virtual Program (British Summer Time Zone)	
	Day-1 October 07, 2024	
09:45 - 10:00	Introduction	
Keynote Presentation		
10.00 - 10.40	Crystallographic Basis of Shape Reversibility in Shape Memory Alloys	
	Osman Adiguzel, Firat University, Turkey	
	Oral Presentations	
10.40 - 11.05	Use of 3D Printed Bioscaffolds from Decellularized Umbilical Cord for Cartilage Regeneration	
	Tayyaba Bari, Interdisciplinary Research Centre in Biomedical Materials (IRCBM), COMSATS University Islamabad, Pakistan	
11.05 - 11.30	Innovative Redesign of Decorative Lighting Frames: Transitioning from Traditional Manufacturing to Additive Manufacturing for Enhanced Sustainability and Customization	
	Liyanage Hemal, EPF Engineering School, Troyes, United Kingdom	
11.30 - 11.55	3D Printing Technology and its Combination with Nanotechnology in Bone Tissue Engineering	
_	R. Thiruchelvi, St. Josephs College of Engineering Chennai, India	
11.55 - 12.20	Effect of Selective Laser Melting (SLM) Process on Tribological Behavior of Ferrous and Non-ferrous Alloys	
	Omid Ashkani, Islamic Azad University, Iran	
12.20 - 12.55	Improving the Fatigue Design of Mechanical Systems such as Refrigerator	
	Seongwoo Woo, Ethiopian Technical University, Ethiopia	
12.55 - 13.20	Ultra Thin Metal Shell Structure: Big Data, Simulation and Al	
	Pablo Lorenzo-Eiroa, New York Institute of Technology, USA.	
	Poster Presentations	
13.20 - 13.35	Using 3D Printed Cardiac Abnormality Models in Pre-Clinical Medical Education	
	Sthefon Tran, California University of Science and Medicine, USA	
13.35 - 13.50	The Design and Development of 3D-Printed Tablets for Neurological Disorders: Current Status, Challenges, and Future Trends	
	Jeevandeep Mishra, Medi-Caps University, India	

Coalesce Research Group



10th European Congress on 3D Printing & Additive Manufacturing

August 25-26, 2025 | Valencia, Spain

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