


AM3D INDIA 2025 CONFERENCE										
			ROOM - MR G.01 (Gr Floor)			ROOM - MR G.04 (Gr Floor)				
Date	Session	Time	Sub Track	Paper No.	Title	Sub Track	Paper No.	Title		
Day 1: 11 September 2025	Session 1	8:30-8:40	AM3D1 - Current and Emerging Trends in AM	Welcome Address by Prof. Shantanu Bhattacharya (Group Chair, AM3D India)		AM3D2 - Applications and Impact	Welcome Address in MR G.01			
		8:40-9:00		158782	Enabling Dimensional Accuracy in Wire Arc Additive Manufacturing: A Machine Learning Based Approach		159416	Development of a Fixed-Wing Vtol Uav for Cargo Delivery Using Additive Manufacturing		
		9:00-9:20		159344	Kinematic Approach to Curved Surface Fabrication Using Multi-Axis 3d Printing for Improved Mechanical Properties		159936	Novel Comparison of Life Cycle Assessment and Power Consumption Analysis of Drilling Waam and L-Pbf Fabricated In718 Under Hybrid Nanofluid Lubrication		
		9:20-9:40		159476	Additive Manufacturing and Mechanical Analysis of Woven Glass Fiber Reinforced Pla Structures Under Compressive Loading		160126	Microstructure's Impact on Tool Wear During Drilling of Wrought and Waam Fabricated Ti6al4v Alloy		
		9:40-10:00		159890	Selective Micro Laser Melting for Fabrication of Electronic Circuits		160503	A Study on Affordable Cranial Polymer Implants With Porous Structures Developed Using Material Extrusion.		
		10:00-10:20		160242	Nesting Algorithms for Optimal Laminated Additive Manufacturing		160207	In-Plane Compressive Responses of Hybrid Auxetic Structures: Numerical and Experimental Investigations		
		10:20-10:30		Session Summary			Session Summary			
	Common Plenary Sessions & Lunch									
	Session 2	2:10-2:30	AM3D1 - Current and Emerging Trends in AM	Invited Talk: Prof. Suresh Palanisamy (Swinburne, Australia)						
		2:30-2:50		160285	Towards Support-Free Printing in Extrusion-Based Additive Manufacturing: Non-Planar Path Planning and Process Control					
		2:50-3:10		160509	Impact of Geometry on Deformation Modes in Powder Bed Fusion Additive Manufacturing Auxetic Structures					
		3:10-3:30		160527	User Perspectives on Additive Manufacturing and Iot Integration: A Combined Statistical and Predictive Analysis					
		3:30-3:50		160588	Real-Time Monitoring of Laser Cladding Process Using Photodiodes: Impact of Process Parameters on Signal Variations and Deposition Quality					
		3:50-4:00	Session Summary							
	Tea / Coffee Break									
	Session 3	4:30-4:50	AM3D2 - Applications and Impact	Invited Talk: Dr C.P.Paul (RRCAT Indore)						
		4:50-5:10		160512	Advanced Ss316-Vc Claddings on En8 Steel Using Wire Arc Additive Manufacturing- Cold Metal Transfer (Waam-Cmt) for Corrosion Resistance in Tillage Tools					
		5:10-5:30		160694	Life Cycle Assessment to Achieve Sustainability in Pre- and Post-Processing: Waam vs. Wrought Ti6al4v					
		5:30-5:50		160769	Use of Additive Manufactured Sand Molds and Cores for Metal Casting Process – Typical Approach					
		5:50-6:10		160928	A Case Study on Series Production, In-Service Performance and Economics of Additively Manufactured H13 Forging Punch					
		6:10-6:30		161943	Additive Manufacturing of Engine Build-Up (Ebu) Components Using Laser Bed Fusion Technique: Design and Analysis Perspective					

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Day 2: 12 September 2025	Session 1	8:40-9:00	AM3D1 - Current and Emerging Trends in AM	160844	Manipulation of Sigmoid Function for Strengthening the Transition Zone in Additively Manufactured Hybrid Tpms Structures					
		161012		Effectiveness of Sampling Methods for Data Imbalance in Predicting Multioutput Responses of Extruded Polymers in Additive Manufacturing						
		161026		Machine Learning Based Adaptive Deposition Control for Wire Arc Additive Manufacturing Repair						
		161316		Design and Development of an Automated Part Removal and Queuing System for Fff 3d Printing						
		161324		A Comparative Analysis of Fdm Printed Scaffold Lattices Using Experimental and Machine Learning						
		10:20-10:30	Sessions Summary							
	Common Plenary Sessions & Lunch									
	Session 2	2:10-2:30	AM3D3 - Materials & Characterization for AM	Invited Talk: Prof. Ramesh Singh (IIT Bombay)		AM3D2 - Applications and Impact	161352	3d Printed Mxene/ Pedot:pss Supercapacitors for Flexible Electronics		
		2:30-2:50		159228	Assessment of Mechanical Performance of Additively Manufactured Acrylonitrile Styrene Acrylate (Asa) Components Under Natural Weathering Conditions		161364	Prospects of Direct Ink Writing Fabrication of Pva-Graphite Porous Structure for Battery Applications		
		2:50-3:10		159500	Multi-Material Additive Manufacturing of Duplex and Austenitic Stainless Steel by Laser Wire Directed Energy Deposition: A Comprehensive Study of Mechanical, Tribological, and Microstructural Behaviour		161379	Design and Development of P-Band Airborne Sar Antenna Aircraft Interface Frame		
		3:10-3:30		160522	Strain Rate Sensitivity and Fracture Mechanism of an Additively Manufactured Als9cu3 Alloy		161568	The Future of Lightweight Design: Advancements in Lattice Structure Through Additive Manufacturing and Sls 3d Printing Technology		
		3:30-3:50		159898	A Study on Compressive Behaviour of Additively Manufactured Alf357 Alloy Using Johnson-Cook Model		171812	Finite Element Analysis Of Damage And Defect Mitigation By Additive Remanufacturing		
		3:50-4:00	Session Summary		Intech Additive Presentation					
	Tea / Coffee Break									
	Session 3	4:40-5:00	AM3D3 - Materials & Characterization for AM	160534	High-Temperature Tensile and Fracture Behaviour of an Additively Manufactured Dissimilar 316 Stainless Steel and Inconel 718		AM3D4 - Modeling & Simulation of AM	Invited Talk: Sri Yathiraj Kansal (Wipro3D, Bengaluru)		
		5:00-5:20		160836	A Comparative Study of Microstructure and Mechanical Properties of Sic Reinforced In718 Deposition by Blue Diode and Infra-Red Fiber Laser			159363	Geometrical Study and Characterization of Multi-Material Deposition of Stainless Steel 316l and Inconel 625 Using Coaxial Laser Wire Additive Manufacturing	
		5:20-5:40		161262	Fabrication of Steel-Based Functionally Graded Material With Planar Hardness Gradation Using Plasma Arc Additive Manufacturing Technique			159709	Mechanical Behaviour of Additively Manufactured Ti-6al-4v Dumbbell Lattice Structures: Insights From Compression and Fatigue Analysis	
		5:40-6:00		160433	Effect of Post-Annealing Treatment on Mechanical Properties, Microstructural Evolution, and Strengthening Mechanism of Additively Manufactured, Ti Inoculated Al 2024 Alloy			159815	Analysis of Multi-Material Metal Laser Powder Bed Fusion Process: An Analytical Approach	
		6:00-6:20		160024	Optimization of Gyroid Structure for Enhancement Component Properties and Strength to Weight Ratio			160079	Enhancing Mechanical Behavior of Tpms Lattice Structures Through Coordinate-Based Generation: A Numerical Analysis	
		6:20-6:30	Session Summary		Session Summary					

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Day 3: 13 September 2025	Session 1	8:40-9:00	AM3D5 - Post build processing of AM Parts	159376	A Comparative Study of Surface Characteristics in Wire Laser and Powder Laser Additive Manufacturing of 316l Stainless Steel	AM3D2 - Applications and Impact	161811	Extrusion-Based Additive Manufacturing for Ceramic Molds in Investment Casting	
		9:00-9:20		160536	Optimization of Heat Treatment Process Parameters for an Additively Manufactured 316 Stainless Steel		162061	Experimental Investigation on Rheological Behaviour of Viscoelastic Abrasive Finishing Tool	
		9:20-9:40		160689	Mechanical and Corrosion Properties of Stainless Steel Nano-Sic Mmc Fabricated by Lpbf: The Role of Heat Treatment		160684	Microstructural and Mechanical Characteristics of Waam Fabricated Superduplex Stainless Steel Walls	
		9:40-10:00		161581	Microstructure Refinement and Hardness Enhancement of Laser Directed Energy Deposited 15-5 Ph Steel Cubes Using Femtosecond Laser Processing		171675	Reclamation of Out of Service Parts for Mro Applications Using Indigenous Lam-Ded Metal 3d Printer	
		10:00-10:20		162086	Enhancing Surface Properties of Directed Energy Deposition Additive Manufactured Components Through Shot Peening and Laser Processing		Perspectives from Indian AM Industry: 10:00 to 10:15: Dr Vishwas Puttige, AM-ACE 10:15 to 10:30: Shri Adwaith Gupta, Paanduv Applications		
		10:20-10:30		Session Summary					
	Tea / Coffee Break								
	Session 2	11:10-11:30	AM3D1 - Current and Emerging Trends in AM	161360	3d Extrusion Printability of Mushroom-Based Material and Optimiztion of Process Parameters for Optimal 3d Food Printing	AM3D4 & D5	160387	Physics Informed Design of Optimal Tee Support for Additive Manufacturing	
		11:30-11:50		161380	Effect of Geometrical Parameters and Fluid Properties on the Onset Potential in Electrohydrodynamic Jet Printing		160517	Enhanced Energy Absorption Characteristics of 3d Printed Sea Sponge-Inspired Lattice Structure	
		11:50-12:10		161452	Acoustic Signal Based Fault Detection in Fused Filament Fabrication (Fff) Printer		160708	An Investigation Study on Extrusion-Based Semi-Solid Metal Wire Additive Manufacturing Using Induction Heating for Aluminium Alloy	
		12:10-12:30		161498	Low- to Mid-Frequency Noise Attenuation Using Hybrid Acoustic Metamaterials Fabricated Through Additive Manufacturing		160838	Sensitivity of Gas Flow and Base Plate Temperature Distribution on Single Track Bead Morphology in Lpbf	
		12:30-12:50		161933	Microstructural and Mechanical Characterization of Stepped Functionally Graded Materials of Inconel and Stainless-Steel Fabricated by Wire-Arc Directed Energy Deposition Process		160412	Effect of Ageing on the Microstructural Evolution and Hardness of an Additively Manufactured Alsi9cu3 Alloy	
		12:50-1:00		Session Summary			161945	Prototyping of Aircraft Latch Using Additive Manufacturing Technique for Realtime Simulation Study	
	Lunch Break								
	Session 3	2:10-2:30	AM3D3 - Materials & Characterization for AM	160828	Exploration of Spatially Diverse Tpms Lattice Support Structures for Distortion Reduction in Lpbf Printed Parts	AM3D4 - Modeling & Simulation of AM	160923	Design and Performance of Multi Morphology Graded Tpms Structures: A Computational Approach	
		2:30-2:50		161272	Enhancing Mechanical Properties and Microstructure of Single-Track Magnetic Field-Assisted Laser Cladding of Super Duplex Stainless Steel 2507 on Ss 420		161187	Evaluating Extrusion Dynamics in Ceramic 3d Printing Using Fea	
		2:50-3:10		161814	Sensitivity Analysis of Residual Stress Generation With Interlayer Cooling Time in Weaving-Based Wire Arc Directed Energy Deposition (Waded) of Low Carbon Steel		161367	Performance of Generative Artificial Intelligence Algorithms for Enabling Desired Shape Morphing in Multi-Material 4d Printed Structures	
		3:10-3:30		157887	Investigation of Atomized Aluminium Alloy Powder Derived From Residue Chips for Laser Powder Bed Fusion Additive Manufacturing: A Focus on Powder Morphology and Material Characterization		161506	Advancing Laser-Based Powder Bed Fusion Through Real-Time Diagnostics and Multi-Scale Modeling for Enhanced Process Control	
		3:30-3:50		161230	Static Behaviour of Additively Manufactured Cocrho Alloy Cuboid Porous Structures for Orthopaedic Implant Application		159903	Additively Manufactured Heat Exchangers for Improved Performance With Optimized Weight or Size for Aerospace Industry Application.	
		3:50-4:00		Session Summary			Session Summary		