



(NCWAM-2025)

 $27^{th} \& 28^{th} \ February \ 2025$ 

**Day - 1: Oral Presentations** 

Paper ID	Paper Title	Authors	Time
057-abstract-NCWAM 2025	Experimental Investigation on Inconel 718 Cladding layer deposited over Mild- Steel Substrate using CMT based WAAM technique	<u>Lalit Kumar Yadav</u> , Adarsh Kumar, Joy Prakash Misra, Rajnesh Tyagi	12:00 noon – 12:15 pm
049-abstract-NCWAM 2025	Parameters Optimization for Porosity Reduction in LASER Welding of AlSi10Mg Parts- in Defence Applications	AjayKumar Vishwakarma, Dibyendu Debnath, Makarand Pawar,Vijay D Hiwarkar, Himanshu Shekhar	12:15 pm – 12:30 pm
064-abstract-NCWAM 2025	Effect of shielding gas on process stability and geometrical characteristics in CMT deposition of 316L stainless steel	Krishna Kumar Yadav, <u>Hemant Kumar</u> , Chitta Ranjan Das	12:30 pm – 12:45 pm
068-abstract-NCWAM 2025	Study on PWHT parameters of thin wall T91 sheet with SS316LN plate for hexcan with foot dissimilar weld joints	R.Lavakumar, T.V.Prabhu, M Rawat, Bala Parandhama raju, G.Nanthakumar, Saisubhulakshmi	12:45 pm – 01:00 pm





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Paper ID	Paper Title	Authors	Time
053-abstract-NCWAM 2025	Influence of microstructure on corrosion properties of laser-powder bed fusion processed 316L stainless steel	Kolakani Vamshi, Pankaj Kumar Singh, Rajneesh Patel, Lalit Kumar Yadav, Joy Prakash Misra, <u>G.M. Karthik</u>	12:00 noon – 12:15 pm
044-abstract-NCWAM 2025	Laser Powder Bed Fusion of Ti-6Al-4V: A Study of Post-Build Heat Treatment and Substrate Plate Heating Effects	Navya Tunikipati, Athira K S, Gururaj Telasang	12:15 pm – 12:30 pm
052-abstract-NCWAM 2025	Role of heat treatment on microstructure and corrosion behavior of additively manufactured 17-4 PH stainless steel	Anuraag gaurav, Pankaj Kumar Singh, Rajneesh Patel, Joy Prakash Misra, <u>G.M. Karthik</u>	12:30 pm – 12:45 pm
066-abstract-NCWAM 2025	Optimisation of Process Parameter to Repair Stainless Steel Casting Defects through Directed Energy Deposition Process for Aerospace Applications	Elamurugu S, Alok Agarwal, Nagarajan D, Rohit Kumar Gupta, Satish Kumar Singh	12:45 pm – 01:00 pm





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Paper ID	Paper Title	Presenting Author	Time
060-abstract-NCWAM 2025	Effect of Flux and Shielding Environment on Microstructure and Corrosion Behavior of TIG Welded 2205 Duplex Stainless Steel Joints	Arun Kumar Gurrala, <u>Raffi</u> <u>Mohammed</u>	03:00 pm – 03:15 pm
063-abstract-NCWAM 2025	Study on microstructure and mechanical properties of TIG and A-TIG weld joints of AISI 316L(N) stainless steel	Gopa Chakraborty, <u>Hemant</u> <u>Kumar</u> , C. R. Das, A. Moitra, M. Vasudevan	03:15 pm – 03:30 pm
048-abstract-NCWAM 2025	Simulation and Validation studies on Weld deformation in End cap welding of PHWR fuel element	<u>B. V. Arun Kiran</u> , Dr. M. Vasudevan, Dr. D. S. Setty, A. Maruthi Ram, Dr. Komal Kapoor	03:30 pm – 03:45 pm
025-abstract-NCWAM 2025	Numerical Approach in Weld Distortion Reduction using FEM	Wrick Bhuyan, <u>Amol Abhang</u>	03:45 pm – 04:00 pm





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Paper ID	Paper Title	Presenting Author	Time
055-abstract-NCWAM 2025	Metallurgical and mechanical properties evaluation of WAAM deposited AZ31B alloy	Petla Sivateja, <u>Ravi Shanker</u> <u>Vidyarthy</u> , Pavan Kumar Penumakala	03:00 pm – 03:15 pm
061-abstract-NCWAM 2025	Rapid Calculation of Temperature Field, Melt Pool Dimensions, and Cooling Rate in multi-track multi-layer Laser Powder Bed Fusion	<u>Birendra Kumar Barik,</u> Pramod Zagade, B P Gautham, Amitava De	03:15 pm – 03:30 pm
024-abstract-NCWAM 2025	Framework for Selecting Optimal Blade Recoater Design for AM Processes Utilizing Powder	<u>Yogesh Patil</u> , Yash Gopal Mittal, Gopal Gote, Avinash Kumar Mehta, K P Karunakaran	03:30 pm – 03:45 pm
041-abstract-NCWAM 2025	Porosity Prediction for LPBF Metal Additive Manufacturing - A Simulation Approach	Sai Nanda Kumar Reddy, <u>Jayaprakash Sharma</u> <u>Panchagnula</u>	03:45 pm – 04:00 pm





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**Day - 2: Oral Presentations** 

Paper ID	Paper Title	Presenting Author	Time
014-abstract-NCWAM 2025	Tool-pin Profile Effects on Material Mixing and Strain Rates in Friction Stir Welding of Al-alloy Plates	<u>Ramana Murthy Bagadi</u> , Jeevan Jaidi	12:00 noon – 12:15 pm
059-abstract-NCWAM 2025	A Comparative study of Ferritic - Austanitic stainless steel dissimilar weld joints using laser and resistance spot welding.	<u>Ketul Shah</u> , Chetan Baghra, R.B. Bhatt, Aniruddha kumar	12:15 pm – 12:30 pm
043-abstract-NCWAM 2025	Study of Similar / Dissimilar Joining Between Al6063-Al6063, EN24-EN24, and Al6063-EN24 Rods Using Rotary Friction Welding (RFW)	<u>Dibyendu Debnath</u> , Ajay Kumar Vishwakarma, Mukesh Kumar Jain, Bhaskar Majumdar, Makarand Pawar, Vijay D	12:30 pm – 12:45 pm
021-abstract-NCWAM 2025	Finite-Element Simulations Study of Resistance Spot Welding Electrode-tip Configurations on Weld Quality Parameters of Dissimilar Al-alloy/Steel Sheets	<u>Prashanth Kumar Reddy</u> <u>Gillela</u> , Jeevan Jaidi	12:45 pm – 01:00 pm





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**Day - 2: Oral Presentations** 

**Session Chairs:** TBA

Paper ID	Paper Title	Presenting Author	Time
020-abstract-NCWAM 2025	Tailoring Phases and Properties Through Multi-Material Wire Arc Additive Manufacturing	<u>Ganesan G</u> , Siddhartha , Shahu Rajaram Karade, Neel Kamal Gupta, Narasimhan K, Karunakaran K P	12:00 noon – 12:15 pm
054-abstract-NCWAM 2025	Effect of heat treatment on the fatigue behavior of additively manufactured IN718	Vamshi Veeraiahgari, <u>Srinivasa Prakash Regalla,</u> Suresh Kurra	12:15 pm – 12:30 pm
065-abstract-NCWAM 2025	Numerical Studies of the Mechanics of Additively Manufactured Tape Springs for Space Applications	Thirupathi Balaji, <u>Srinivasa Prakash Regalla</u>	12:30 pm – 12:45 pm
046-abstract-NCWAM 2025	Powder Bed Fusion by Laser Beam Melting of BZL12Y Superalloy: Process Optimization, Microstructural Analysis and Mechanical Properties	Athira K S, B.K. Nagesha, Gururaj Telasang	12:45 pm – 01:00 pm

(Organizing Committee, NCWAM-2025)