



7th Asian Symposium on Materials and Processing

(ASMP 2024)

December 5-7, 2024

IC & SR Building, Indian Institute of Technology Madras, Chennai



Day 1 (5th Dec 2024)

08:00 – 09:00	ICSR IIT Madras	Conference Registration		
09:15 – 10:00	TTJ Auditorium	Inaugural Session		
10:00 - 10:30		EP 01 Prof. Yoshiharu. Mutoh, Nagaoka Univ. of Technology Japan <i>How Should We Understand the Fretting Fatigue Phenomena for the Purpose of Life and Strength Assessment?</i>		
10:30 – 11:00	Dining Hall	Refreshments / Coffee Break		
11:00 – 11:30		EP 02 Prof Jung Li Song, Changwon National Univ., South Korea <i>Advancing Sustainable Materials: The Evolution of Natural Fiber Polymer Composites</i>		
11:30 - 12:00		EP 03 Kunio Hayakawa, Shizouka Univ., Japan <i>Numerical Simulations for Designing Bulk Forming Processes</i>		
12:00 - 12:30		EP 04 Prof. Karunakaran KP, IIT Bombay, India <i>Electron Beam Hybrid Manufacturing</i>		
12:30 – 13:00		EP 05 Prof. Somrerk Chandra-Ambhorn, KMUTNB, Thailand <i>Progress on Ferritic Stainless Steel Development for Solid Oxide Fuel Cell Interconnect Application.</i>		
13:00 - 14:00	Dining Hall	Lunch		
			ICSR Hall 2	ICSR Hall 3
14:00 – 14:30	Expert Lectures Session B		EP 06 Prof. Angela Daniela La Rosa, NTNU Norway <i>LCA Applied to Materials and Processes</i>	EP 09 Yasuhiro Yamazaki, Chiba Univ, Japan <i>Small Crack Propagation in a Single Crystal Ni-Based Superalloy under Thermomechanical Fatigue Loading</i>
14:30 – 15:00			EP 07 Prof. Kazunari Shinagawa, Kyushu Univ, Japan <i>Simulation of Liquid Phase Sintering by Combined MPFM/DEM Approach</i>	EP 10 Prof. Tomohiro Sato, Kansai Univ, Japan <i>Reduction of Cu-Ni-Si Alloy Powders made by Water Atomization</i>
15:00 – 15:30			EP 08 Prof. Gen Sasaki, Hiroshima Univ, Japan <i>Thermal Expansion & Microstructure of Al Matrix Comp Prepared by Low-Pressure Infiltration to a Porous Body</i>	EP 11 Prof. Kazunori Asano, Kindai Univ, Japan <i>Damping Capacity of Short Alumina Fiber and VGCF Hybrid Reinforced Aluminum Alloy Composites.</i>
		ICSR Hall 1	ICSR Hall 2	ICSR Hall 3
		Session B1 Polymer & Composite	Session B2: Modeling & Analysis	Session B3: Damage Tolerance
15:30 - 15:45	Contributory Presentations	C-01 K Sugio, Hiroshima Univ, Japan <i>Automatic Particle Detection of Al-SiC Particle Dispersed Composites by Machine Learning</i>	C-05 Marco a. Garcia-Revilla, Guanajuato Univ. <i>Modeling Adsorption and Optical Properties for the Design of CO₂ Photocatalytic Metal-Organic Framework</i>	C-09 Taiki Yamamoto, Ritsumeikan Univ, Japan <i>Development of New Techniques for High-Temperature Fatigue Testing Machines using Miniature Specimens</i>

15:45 – 16:00	C-02 B Sahu, IIT Madras, India <i>Patch Size Study on GFRP Laminate under Flexural Loading</i>	C-06 G V Balakrishna, IIT Madras, India <i>Identification of Grease Formulation using Fourier Transform Infrared Spectroscopy: Application of Artificial Intelligence</i>	C-10 Shun Takamura, Waseda Univ. Japan <i>Investigation of Densification Treatment Method for CNT Yarns Using Molecular Calculations</i>
16:00 - 16:15	C-03 Pramod K Parida, IIT BBSR, India <i>Influence of Fumed Silica Nanofiller and Stacking Sequence on Solid Particle Erosion Response of Bidirectional Jute-Kevlar Hybrid Composite</i>	C-07 Nan Zhang, Nagaoka UT, Japan <i>Fatigue Strength and Corrosion Behavior under Humidity in Self-Pierce Riveting Joint of Non-Combustible Mg-4% Al-1% Ca-0.2% Mn Alloy</i>	C-11 Praveen Kumar, IIT Bombay, India <i>Analysis of Flow and Fracture Behavior of Cu as a Function of Temp & Strain Rate Before and after Gaseous Charging</i>
16:15 -16:30	C-04 Hayato Nakatani, Osaka Metropol. Univ, Japan <i>Pseudo-Ductility Design for CFRP Laminates Based on Microscopic Damage Accumulation by Mesh Interlayers</i>	C-08 Soma Maji, IIT Madras, India <i>Simulation of Heat Transfer and Microstructural Evolution During Additive Manufacturing of Inconel 625</i>	C-12 Katsunari Takeuchi, Nagaoka UT, Japan <i>Factors Affecting Fatigue Strength Characteristic in Friction Stir Welded Aluminum Alloy Lap Joints.</i>
16:30 – 16:45	Refreshments / Coffee Break		
16:45 – 17:45	Poster Session - 1		

Day 2 (6th Dec 2024)

		ICSR Hall 1	ICSR Hall 2	ICSR Hall 3
09:00 – 09:30	Expert Lecture Session C	EP-12 Prof. Miyashita, Nagaoka UT, Japan <i>Fatigue Strength of MIG and TIG Welds in Non-Combustible Magnesium Alloy under Plane Bending Load at Negative Stress Ratios</i>	EP-14 Prof Noel, Université De Poitiers, France <i>Friction Regimes of Resin-Lubricated Carbon Fiber Tows</i>	EP-16 Prof. Geetha Manivasagam, VIT Vellore <i>3D Printing of Orthopedic Metallic Implants with High-Performance</i>
09:30 - 10:00		EP-13 Prof. Balasubramanian K , DIAT, Pune, India <i>Biomaterials Breakthroughs: Expanding Applications in Science and Technology</i>	EP-15 Prof. Chau Chang Chou NTOU, Taiwan <i>Tribological Behavior of SKD11 Tool Steel and 5052 Al Alloy in Reciprocal Line-Contact Motion: Effect of WS2-Suspended Minimum Quantity Lubrication</i>	EP-17 Prof. Shanmugam Kumar, Univ of Glasgow, UK <i>Sustainable Multifunctional Materials and Composites Via Additive Manufacturing and Nanoengineering</i>
		ICSR Hall 1	ICSR Hall 2	ICSR Hall 3
		Session C1: Surface Design and Analysis	Session C2: Welding & Joining	Session C3: Additive Manufacturing
10:00 – 10:15	Contributory Presentations	C-13 Darshan Dange, IIT Madras, India <i>Scratch Resistance Behavior of the Coir-Pith PLA Composite for Automotive Interior Application</i>	C-17 Rattana B, Suranaree Univ. of Tech., Thailand <i>Dissimilar Welding of Low-Carbon Steel and Mg Alloy</i>	C-21 Nitin Kumar, IIT Madras, India <i>Influence of Pre-Weld Solution Treatment on HAZ Liquefaction in Additively Manufactured Inconel 718</i>
10:15 – 10:30		C-14 Ketan Rajendra Patil, Nagaoka UT, Japan <i>Rolling Contact Fatigue Mechanism in AM Maraging Steel</i>	C-18 Yoshiki Watanabe, Osaka Inst of Tech. Japan <i>Effects of Al Welds Characteristics on Joint Strength in Cu/Al Dissimilar Materials Resistance Spot Welding</i>	C-22 Arvind Kumar, IIT Jammu, India <i>Innovative Additive Manufactured Pressure Sensors: Design and Simulation for Health Applications</i>
10:30 – 10:45		C-15 Sumanta Prasad Dewri, IIT Madras, India <i>Sliding Friction of Coir Fiber in Dry and Wet Conditions</i>	C-19 Ramesh Babu Arigela, NIT Trichy, India <i>Feasibility Study of Activated GTAW in STBW Machine for Welding of SA210-Gr. C Tubes</i>	C-23 Shinobu Narita, Shizuoka Univ. Japan <i>Evaluation of the Effect of Forming Condition on the Strength of Formed Part by PBF Type Additive Manufacturing</i>
10:45 – 11:00		C-16 Chandramouli T V, NIT Karnataka, India <i>Tribological Performance of Fe-Based Composite Coatings under Elevated Temperature Conditions</i>	C-20 Arata Ishikawa, Osaka Inst of Tech, Japan <i>Effects of External Magnetic Field on Nugget Formation and Electrode Wear of Resistance Spot Welding for Al Alloy</i>	C-24 Avinash Mohan M, IIT Madras, India <i>Microstructural Characteristics of Additively Manufactured Al357 Alloy: Effect of Tensile Loading and Build Orientations</i>
11:00 – 11:15		Refreshments / Coffee Break		
		ICSR Hall 1	ICSR Hall 2	ICSR Hall 3
11:15 – 11:45	Expert Lecture Session D		EP-18 Prof. Takahiro Ohashi, Kokushikan Univ. Japan <i>Dissimilar Materials Joining of a Space Steel Sheet with a Prepared Stamping Hole with an Inside Chamfer to an A5083 Al Alloy Sheet via Friction Stir Forming</i>	EP 20 Prof. Takenobu Sakai, Saitama Univ. Japan <i>Evaluation of Mechanical Properties on CFRP Adhesive Joints</i>
11:45 – 12:15			EP 19 Prof. S Hashimura, Shibaura Inst of Tech, Japan <i>Clamp Force Reduction on Thin Plates Bolted Joint</i>	EP-21 Dr. Poonam Kumari, IIT Guwahati, India <i>Fabrication and Characterization of 2-Layered PZT-ZrO2 Discs Through Cold Isostatic Pressing for Improved Life</i>
		ICSR Hall 1	ICSR Hall 2	ICSR Hall 3
		Session D1: Thin Film and Coating	Session D2: Surface Design and Analysis	Session D3: Polymer & Composite
12:15 – 12:30	Contributory Presentation	C-25 Chithambaram K, IIT Madras, India <i>Scratch Resistance of PLA-Based Biodegradable Polymer Reinforced with Pineapple Leaf Fiber</i>	C-28 S Manova Raja Singh, Hiroshima Univ. Japan <i>Controlling the Wettability Behavior of Zn Alloy on SUS310S Steel by Application of Ultrasound</i>	C-31 Taisho Fukui, Nagoya Univ. Japan <i>High-Throughput Measurement of Transition Temperatures of Thermoresponsive Polymers</i>

12:30 – 12:45		C-26 Neeraj CS, IIT Madras, India <i>Dual Dye Based Light and Thermal Responsive Liquid Crystal Polymer Films</i>	C-29 Pream Kumar AL, IIT Madras, India <i>Coir Yarn Friction in Technical Textiles – a New Methodology for Assessment</i>	C-32 N B Keerthika, IIT Madras, India <i>Tensile Characteristics of 3D Printed Flexible Polybutylene Succinate (PBS) / Coir Composite</i>
12:45 – 13:00		C-27 Tejasva Vashistha, IIT Gandhinagar, India <i>Unveiling Structure-Property Links in SiO₂-Cr-Au Thin Films Via Molecular Dynamics</i>	C-30 Yuya Omiya, Kagawa Univ. Japan <i>Contact Behavior of Friction Joint using Wedge Structure</i>	C-33 Kazuhito Asai, National Inst of Tech, Japan <i>Forming of Plate with Pin by Plane Strain Compression</i>
13:00 – 14:00		Lunch		
14:00 -15:00		Poster Session – 2		
		ICSR Hall 1	ICSR Hall 2	ICSR Hall 3
			Session E2: Surface Design and Analysis	Session E3: Additive Manufacturing
15:00 – 15:30	Expert Lecture Session E		EP-22 Prof. Masaaki Otsu, Univ. of Fukui, Japan <i>Incremental Forming of PMMA Sheets by Oil Bath Heating Y</i>	EP-24 Prof. Senthilvelan, IIT Guwahati, India <i>Kalvam (Grinding in Traditional Medicine Manufacturing) Engg. Insight</i>
15:30 – 16:00			EP 23 Dr. Zainuddin Sajuri, Univ. Kebangsaan, MYS <i>Effect of friction stir spot welding parameters on lap shear strength of similar and dissimilar Al alloys.</i>	EP 25 Dr. Dhanalaskmi, CVRDE, India <i>Secondary Processing of Aluminium Matrix Components - Challenges & Applications</i>
16:00 – 16:15			Refreshments / Coffee Break	
		ICSR Hall 1	ICSR Hall 2	ICSR Hall 3
		Session E1: Additive Manufacturing	Session E2: Surface Design and Analysis	Session E3: Welding and Joining
16:15 – 16:30	Contributory Presentations	C-34 Shakti S Choudhury, IIT Madras, India <i>Methodology for Manufacturing FGM With DEM-Assisted Simulation of Powder Spreading in LPBF</i>	C-39 Muluken Yehualaw, IIT Madras, India <i>Fretting Characteristics of 3d Printed Polyphenylene Sulfide (PPS) Insulation Shields – Layer Orientation</i>	C-44 Hino Taichi, Nagoya Univ. Japan <i>Evaluation of Irradiation Characteristics of FAB Source With Potential Distribution Control Electrode</i>
16:30 – 16:45		C-35 P. Parameswaran, IIT Madras, India <i>A Study on Failure Mechanisms in Additively Manufactured Dumbbell Lattice Structures of Ti6Al4V</i>	C-40 Yae Hasegawa, Shibaura Inst of Tech, Japan <i>Effect of Cylindrical Tube Geometry on the Corrosion Behavior of ZM21 Magnesium Alloy in a Flow Field</i>	C-45 Bindu Pal, IIT Madras, India <i>Effect of Double Pulsing on the Fatigue Behavior of Resistance Spot Welded Boron Steel</i>
16:45 – 17:00		C-36 Arunangshu Das, NIT Trichy, India <i>Integration of Nanomaterials in the 3D Printing Process for Enhanced Mechanical and Functional Properties</i>	C-41 Ryo Matsumoto, Osaka Univ. Japan <i>Reduction in Barreling of the Hollow Cylinder by Ram Pulsation in Upsetting</i>	C-46 Muneyoshi Iyota, Osaka Inst of Tech, Japan <i>Improvement in Joint Strength of Fe/Al Dissimilar Materials Resistance Spot Welded Joints by using External Magnetic Field</i>
17:00 – 17:15		C-37 Dinesh Kumar A, IIT Madras, India <i>Influence of Build Orientation on AM PVDF With Electric Poling for Strain Sensing & Energy Harvesting Apps</i>	C-42 Dinesh K S, IITDM Kanchipuram, India <i>Fast Fabrication of Titanium Self-Cleaning Surfaces using Laser Surface Texturing for Surgical Tools</i>	C-47 Rahul Srivastava, IIT Madras, India <i>Insights Into the Bonding Characteristics and Bendability of Al/Mg/Al Tri-Layered Multi-Metallic Clad Sheets</i>
17:15 – 17:30		C-38 Vijeesh Vijayan, NMAMIT Mumbai, India <i>Fabrication of Martensitic Stainless Steel using Twin Wire Arc Additive Manufacturing</i>	C-43 Shubhang Srivastava, IIT Madras, India <i>Analysis of Tribological Data of Lubricants using Advanced Statistical Methods</i>	C-48 Saravana Bavan, Dayananda Sagar Univ. India <i>Tensile and Hardness Behavior of Friction Stir Cast Welds for Automotive Application.</i>
		Conference Dinner (19:00 – 21:00), ICSR Dining Hall		

Day 3 (7th December 2024)

		ICSR Hall 2		ICSR Hall 3	
09:00 - 09:30	Session F Expert Lecture		EP 26 Dr. Vasudevan IGCAR Kalpakam, India <i>Development of Structural Materials and the Associated Processing and Welding Technologies for Fast Breeder Reactors</i>		EP 28 Prof. Tsunehisa Suzuki, Akita Pref Univ, Japan <i>Effects of Ion Beam Irradiation on the Crystal Growth of Tin Thin Films and the Interface Between the Films and Cemented Carbide Substrates</i>
09:30 – 10:00			EP 27 Prof. Hiroki Akasaka, Inst. of Sci Tokyo, Japan <i>Shape and Structure Changes of Diamond-Like Carbon Films by Defocused Laser Irradiation</i>		EP 29 Dr. Jayaprakash M, IIT Indore, India <i>Development of High-Temperature Ti alloys with improved properties</i>
		ICSR Hall 2		ICSR Hall 3	
		Session F2 Polymer & Composite		Session F3 Material Processing	
10:00 - 10:15	Contributory Presentations		C-49 Abir Saha, IIT Guwahati, India <i>Development of Bamboo Micro Particle- Long Fiber Reinforced Hybrid Green Comp for Automobile Interior Apps</i>		C-53 Junpei Sakurai, Nagoya Univ. Japan <i>Combinatorial Searching for High Heat-Resistant Thin Film Amorphous Alloys for MEMS Ultrasonic Devices</i>
10:15 – 10:30			C-50 Shruti Gupta, DIAT Pune, India <i>Recycling Carbon Fiber Via Additive Manufacturing for Superior Mechanical Properties</i>		C-54 Yuya Takamatsu, Nagoya Univ. Japan <i>Three-Dimensional Estimation of Oxide Film Removal in Surface Activated Bonding using a Fast Atom Beam</i>
10:30 – 10:45			C-51 Kazutoshi Tachibana, Macoho Co., Ltd., Japan <i>Trial of Replacement From Conventional Pickling to Wet Shot Blasting Prior to Zinc-Phosphate Lubrication for Cold Forming</i>		C-55 Tetsuro Yanaseko, Kogakuin Univ. Japan <i>Evaluation of Healing State of Self-Healing Ceramics by Acoustic Emission</i>
10:45 – 11:00			C-52 Jinrong Liu, Kindai Univ. Japan <i>Machinability of Carbon Fiber Reinforced Al Alloy Composite</i>		C-56 Taro Kanehira, Kindai Univ. Japan <i>Effects of Phosphorus and Calcium on the Refinement of Mg₂Si Crystallized in Mg Alloy</i>
11:00 – 11:15	Refreshments / Coffee Break				
		ICSR Hall 2		ICSR Hall 3	
		Session G2 Modeling and Analysis		Session G3 Material Processing	
11:15 – 11:30	Contributory Presentations		C-57 Nodoka Inui, Nagoya Univ. Japan <i>Novel Design and Fabrication of Tactile Pin Actuator for Tactile Displays Utilizing Origami Structure</i>		C-64 Anup Kumar Maurya, IIT Madras, India <i>Optimizing Surface Roughness of LPBF-CoCrMo for Enhanced HA Coatings</i>
11:30 – 11:45			C-58 Kohei Nobata, Univ. of Fukui. Japan <i>Toolpath Generation From Product Depth Map in Incremental Forming by Convolutional Neural Network</i>		C-65 Yuki Hirata, Institute of Science Tokyo, Japan <i>Synthesis of 2D Nanomaterials and Exploration of Van Der Waals Heterostructures using SAHP Method</i>
11:45 – 12:00			C-59 Yuto Koga, Osaka Inst of Tech. Japan		C-66 Bhartendu Mani Tripathi, IIT BHU, India

			<i>A Study on Suppression of Electrode Deformation in Fe/Al Resistance Heating Clinching by Using W Punch-Shaped Electrode</i>	<i>Synthesis and Characterization of Beeswax-Lauric Acid-Graphite/Zeolite Form-Stable Composite PCM for Building Apps</i>
12:00 – 12:15			C-60 Sujith Reddy Jaggannagari, IIT Madras, India <i>Analysis of Powder Bed Homogeneity in Additive Manufacturing Through Multi-Layer Spreading Simulations</i>	C-67 Sumangala T. P. VIT Vellore, India <i>Effect of Cobalt Ferrite Conc. on the EMI Shielding Effectiveness of Cu Ferrite/Graphene-Based Epoxy Composites</i>
12:15 – 12:30			C-61 Sahil K Yadav, IIT Delhi, India <i>Process Parameters Optimization for Patterned Vertically Aligned Carbon Nanotube Growth</i>	C-68 Puli Akshita Govind, NIT Tiruchirappalli., India <i>Fabrication of Thermoelectric Materials From High Entropy Alloys</i>
12:30 – 12:45			C-62 Anurag Dubey, INSA Centre Val De Loire, France <i>A Method to Identify and Characterize Damage in Mechanical Structures Using Dynamic Parameters Changes</i>	C-69 Pranab Jyoti Barman, JIST, India <i>Design and Treatability Studies of a Low-Cost Biofilter</i>
12:45 – 13:00			C-63 Daniel Napoleón G B, ITESHU, Mexico <i>Agricultural Tractor VR/AR for training</i>	C-70 A. Madhubala, IIT Madras, India <i>Influence of Parameters on the Synthesis of MoAlB Phase Alloys</i>
13:00 – 14:00			Lunch	
			ICSR Hall 2	ICSR Hall 3
			Session H2 Additive Manufacturing	Session H3 Material Processing
14:00 – 14:15	Contributory Presentations		C-71 Usha Rani S, IIT Madras, India <i>A Study on the Influence of Annealing on Mechanical, Wear Behavior, and Corrosion LPBF Processed Ti Alloy</i>	C-81 S S Satheesh Kumar, DMRL, Hyderabad, India <i>Achieving Superplasticity in Ni Based Superalloy Processed Mult Axial Forging</i>
14:15 – 14:30			C-72 Krishna K Yadav, HBNI, Mumbai, India <i>Process Stability, Microstructural and Mechanical Characterization of Spiral-Weaved 316L SS Steel CMT-WAAM Deposit</i>	C-82 Milan Shahana, IIT Madras, India <i>Microstructural Insights and Atomic-Scale Analysis of Gas Atomized Inconel 718 Coatings Processed by Cold Spray and Heat Treatment</i>
14:30 – 14:45			C-73 Vishwas Swarnkar, IIT Madras, India <i>Does Base Plate Preheat Temperature and Gas Flow Rate Distribution Significantly Affect the Bead Morphology in Single-Track Experiments Fabricated using LPBF?</i>	C-83 Farhanuzzaman Khan, IIT Madras, India <i>Influence of Laser Scan Strategy on Morphological Characteristics of Sheet-Based Schwarz Diamond TPMS Lattice Structure Manufactured by LPBF</i>
14:45 – 15:00			C-74 Midhun Shah, Univ. of Calicut, India <i>Graphite Sintered Sr1-Xprxio3 for Thermoelectric Applications</i>	C-84 Pavani Udatha, RGUKT-AP, India <i>Characterization of a Palm Tree Trunk, a Natural Functionally Graded Structure</i>
15:00 – 15:15			C-75 R Ramesh, IIT Madras, India <i>Effect of Post-Processing on Microstructure and Mechanical Behavior of An Additively Manufactured AlSi10mg Alloy</i>	C-85 Alwin Balasundaram, IIT Madras, India <i>Wear Behavior of T400 Reinforced Ni-20Cr Coatings at Room and Elevated Temperature</i>
15:15 – 15:30			C-76 Balasubramani V, Thiagarajar Col of Engg, India <i>Mechanical Characterization of Natural Epoxy Composites Reinforced with Banana Fibre and Flax Fibre</i>	C-86 Amiya Prakash Das, IIT Madras, India <i>Mechanical Characterization of Manganese-Rich Polymetallic Nodules</i>

15:30 – 15:45			C-77 Koilakuntla V, IIT Goa, India <i>Generation of Realistic 2-Dimensional Microstructure of Fiber Reinforced Composites: Incorporating Voids and Resin-Rich Pockets</i>	C-87 Jamshina Sanam P.K, Univ. of Calicut, India <i>Designing Low Band Gap High Performing Thermoelectric Material of CuCo₂ Via Multi-Cation Doping for Synergistic Photovoltaic Energy Conversion</i>
15:45 – 16:00			C-78 Anurag Sahu, IIT Madras, India <i>Effect of Heat Treatment on Tensile & Fretting Wear Properties of Additively Manufactured Inconel 718</i>	C-88 Vanguri P, RGUKT-Nuzvid, India <i>Effect of Various Supplementary Cementitious Materials on the Properties of Pervious Concrete</i>
16:00 – 16:15			C-79 Poonam, CCET Chandigarh, India <i>Pre-Earthquake Rapid Visual Screening (RVS) & Earthquake Safety Assessment of RCC and Masonry Buildings Located in the Chandigarh Area (India)</i>	C-89 Deepak K Pawar, IIT Madras, India <i>Investigating Contact Force Models in Drained Triaxial Compression of Granular Materials: Insights from DEM Simulations</i>
16:15 – 16:30			C-80 Sreekanth M. S. VIT Vellore, India <i>Enhanced Interfacial Properties of Silane Modified Carbon Fiber Grafted MoS₂/MWCNTs -Based Epoxy Nanocomposites for Structural Application</i>	
16:30 – 17:00		Closing Session		

ICSR Hall 4, Exhibition Hall

Day 1: 5th December 2024 (16:45 – 17:45), Day 2: 6th December 2024 (14:00 – 15:00)

Poster ID	Name of the Presenter	Title of the Poster
P-01	Pranab Jyoti Barman	<i>Comprehensive Study of Partial Replacement of Cement with Biochar in Concrete</i>
P-02	Yuki Miyoshi	<i>Advanced Measurement of Carbon Particle Emission in Fast Atom Beam Source and Analysis of the Emission Mechanism</i>
P-03	Jinglan Xie	<i>The Fatigue Properties of Ni-Nb-Zr Thin Film Amorphous Alloys under Ultrasonic Vibration</i>
P-04	Anshika Bagla	<i>Sustainable Smart Piezoelectric Sensors for Health Monitoring Based on Bamboo Microfibril Reinforced PVDF Nanofibers</i>
P-05	Amiya Prakash Das	<i>Mechanical Characterization of Manganese Rich Polymetallic Nodules</i>
P-06	Mathi Vignesh P	<i>Bio-Inspired Camouflage Coating Mimicking Chameleon Colour-Changing Ability</i>
P-07	Hirofumi Tomi	<i>Refinement of Solidification Microstructure of Mg₂Si Particle-Dispersion Magnesium Alloys by Ultrasonic Vibration.</i>
P-08	Neeraj C S	<i>Effect of Light on Crack Propagation in Liquid Crystal Polymer Networks</i>
P-09	Monisha	<i>Additively Manufactured Titanium Dental Fixtures with ZnO Coated Surface for Improved Antimicrobial Property</i>
P-10	Shivam Korde	<i>Parameter Optimization and Structural Integrity of Spin Arc Welded Al 2219 Alloys</i>
P-11	Milan Shahana	<i>Microstructural Insights and Atomic-Scale Analysis of Gas Atomized Inconel 718 Coatings Processed by Cold Spray and Heat Treatment</i>
P-12	Imthiaz Ahmed M	<i>Synthesis of Polyhedral SnO₂ for the CO₂ Electrochemical Reduction to Formic Acid</i>
P-13	Nareshkumar Jayaseelan	<i>Experimental Investigation on Compressive Behaviour of Encased Steel Concrete Composite Sections using Self Compacting Concrete with Rubber Powder</i>
P-14	Giritharan Samynathan	<i>Compressive Behaviour of Encased Steel Concrete Composite Sections using Self Compacting Concrete With Rubber Powder</i>
P-15	Sree Harsha Choutapalli	<i>Piezoresistive Properties of Selectively Laser-Assisted Al- and P-Doped Semi-Insulating 4H-Silicon Carbide Substrates</i>
P-16	Gimmi Guruprasad Engoor	<i>Biocompatibility and Antifouling of Laser-Induced Periodic Surface Structures on Ti-Based Materials</i>

P-17	Pream Kumar AL,	<i>Coir Yarn Friction in Technical Textiles – A New Methodology for Assessment</i>
P-18	Soundhar Arumugam	<i>Tribological and Mechanical Characterization of Banana Fiber Reinforced PLA Bio-Composites</i>
P-19	G V Balakrishna	<i>Lubricant Deterioration in EV Motor Bearings – Simulated Studies</i>
P-20	Mahesh M	<i>Drag Reduction of High-Speed Aircrafts Through Bioinspired Istiophorus Platypterus [Sailfish] Skin Morphology</i>
P-21	Emayavaramban M	<i>Comparative Investigation and Analysis of Dental Implant for Different Bio-Compatible Alloys</i>
P-22	Sumandeep Rana	<i>Design and Development of 3D Printed Flexible Samples for Automobile Headliners Application</i>
P-23	Keerthika N B	<i>Tensile Characteristics of 3D Printed Flexible Polybutylene Succinate (PBS) / Coir Composite</i>
P-24	Abir Saha	<i>Development of Bamboo Micro-Particle- Long Fiber Reinforced Hybrid Green Comp for Automobile Interior Apps</i>
P-25	Rahul Srivastava	<i>Insights Into the Bonding Characteristics and Bendability of Al/Mg/Al Tri-Layered Multi-Metallic Clad Sheets</i>
P-26	Sahil Kumar Yadav	<i>Process Parameters Optimization for Patterned Vertically Aligned Carbon Nanotube Growth</i>
P-27	Liu Jinrong	<i>Machinability of Carbon Fiber Reinforced Al Alloy Composite</i>
P-28	Madhubala A	<i>Influence of Parameters on the Synthesis of MoAlB Phase Alloys</i>
P-29	Arvind Kumar	<i>Innovative Additive Manufactured Pressure Sensors: Design and Simulation for Health Applications</i>
P-30	Kaito Kikuchi	<i>Long Natural Fibre Reinforcement in Polymers using 3D Printing -Tensile and Flexural Behaviour</i>
P-31	Soma Maji	<i>Simulation of Heat Transfer and Microstructural Evolution During Additive Manufacturing of Inconel 625</i>
P-32	Anurag Sahu	<i>Effect of Heat Treatment on Tensile & Fretting Wear Properties of Additively Manufactured Inconel 718</i>
P-33	Manickavasagam T	<i>Impact of Fiber Reinforcement on Flexural Properties: A Comparative Study of 3D printed PLA & PLA Composite</i>