INTERNATIONAL CONFERENCE ON ADVANCES IN MATERIALS AND MECHANICAL ENGINEERING ICAMME-2022

18th-19th February 2022

TECHNICAL PROGRAME SCHEDULE

Date: 18-02-2022

SESSION-1: MATERIALS AND TECHNOLOGIES (PART-1)

TIMINGS: 11:30 AM-2:15 PM (IST)

S. No.	Name of Presenter	Title of Paper
1	Suha K. Shihab	Mechanical and Physical characteristics of Hybrid
		Particles/Fibers-Polymer Composites: A review
2	Bhavin Mehta	Synthesis and characterization of γ-Al2O3-Water Nanofluid with
		and without surfactant
3	Rajat Kumar	Temperature and strain rate dependent tensile behavior of
		polycrystalline nanocopper under dynamic loading
4	Sidra Ajmal	Recent progress in Development and Applications of Biomaterials
5	Lubaid Nisar	Defects analysis in Friction stir processing of Magnesium based
		surface composites.
6	Shashikant	Optimization of Magnesium ZK60A/SiC/B4C Hybrid Composite
	Awasthi	Fabricated by Friction Stir Processing
7	Md. Ziyaur	Multi-response Optimization of Gap Parameters on Mechanical
	Rahman	Properties of Surface Composite

SESSION-2: MATERIALS AND TECHNOLOGIES (PART-1)

TIMINGS: 11:30 AM-2:15 PM (IST)

S. No.	Name of Presenter	Title of Paper
1	Gaurav Kumar	Multi Performance Characteristics Optimization of End Milling
		Parameters on Surface Quality and Micro-hardness of SS-304
2	Shailendra Kumar	Recent Advances in Aluminium Metal Matrix Composites: A
	Yadav	Critical Review
3	Tanveer Majeed	Electrochemical Behaviour of Friction Stir Welded Joints; Effect
		of Tool Shoulder Diameter
4	Ingilela Aswith	A comprehensive review on the influence of reinforcement
	Babu	materials and wear characteristics of metal matrix composites
5	Akash Ahlawat	Analysis of wear assessment of FDM printed specimens with
		PLA, Multi-Material and ABS via hybrid algorithms

6	Mohamed Serier	Parametric studies of friction stir welding with tool using a
		vibrating shoulder
7	Santosh Kumar	A critical review on industrial/agricultural waste as reinforcement
	Sahoo	materials for metal matrix composites

SESSION-3: MATERIALS AND TECHNOLOGIES (PART-1)

TIMINGS: 11:30 AM-2:15 PM (IST)

S. No.	Name of Presenter	Title of Paper
1	Mahesh Kumar	Computational mechanical behavior of nanocrystalline copper-
	Gupta	tantalum alloy
2	Santosh Kumar Rai	Compositional Ligno-cellulosic Behaviour of Some Residual
		Biomass
3	Mahboob Amin	Mechanical Properties of Natural Fiber Reinforced Polymer
		Composites: A Critical Review
4	Ankit Kumar	Investigation of Mechanical Properties of Heat-Treated A356/SiC
		Composite Fabricated Through Stir Casting Technique
5	Ajay Mittal	Recent progress in the fabrication of volumetric superhydrophobic
		materials
6	Akash Yadav	Experimental investigation on mechanical property of concrete
		with hybrid supplementary cementitious materials.
7	Surya Prakash	Overview and in-silico Pharmacological Profiling of Gliadin: A
		Potential Biomaterial

SESSION-4: ADVANCED MANUFACTURING TECHNOLOGIES (PART-1)

TIMINGS: 3:00 PM-5:45 PM (IST)

S. No.	Name of Presenter	Title of Paper
1	Mayur Sanas	Evaluating biological behavior of Kelvin cellular bone scaffold
2	Gaurav Kalia	Use of Three-Dimensional Printing Techniques for developing
		Biodegradable applications: A Review investigation
3	Pooja Dwivedi	Investigation on Aluminum Based Surface Composite through
		FSP using Metal (Fe-Sn-Mn) and Ceramic (SiC) Reinforcements
4	Mouminah	Effect of Tool Rotational Speed on the Friction Stir Welded
	Amatullah	Aluminum Alloys: a review
5	Nirmal Garg	Process Parameter Optimization on The Dimensional Accuracy
		of Additive Manufacture Thermoplastic Polyurethane (TPU)
		Using RSM
6	Ashish Sharma	Review of Various Methods of Keyhole Removal In Friction Stir
		Welding Sheets And Pipes
7	Ahmad Shamoon	Role of energy technologies in response to climate change

SESSION-5: ADVANCED MANUFACTURING TECHNOLOGIES (PART-1)

TIMINGS: 3:00 PM-5:45 PM (IST)

S. No.	Name of Presenter	Title of Paper
1	Sonakshi Hazra	Experimental Investigation of Powder Mixed Micro-Electrical
		Discharge Drilling on SS304 substrate
2	Narender Singh	Multi-Objective parametric optimization during micro-EDM
		drilling of Ti 5.6Al-3.6V using Teaching Learning Based
		Optimization algorithm
3	Mohammad Arif	Friction Stir Welding and Friction Stir Spot Welding of
		Acrylonitrile Butadiene Styrene: A review
4	Prashant Choudhary	Microstructural Investigation on Friction Stir Welded
		AA6063 Pipe
5	Santosh V. Angadi	Recent Advancements in the Manufacture of Nitinol Including
		its Characterization and Properties
6	Abhijit Singh	Modeling of Laser aided Direct Metal Deposition of Stainless
		Steel using Supervised Deep Learning Algorithms
7	Chetan Swaroop	Natural fibre reinforced composites: A review based on
		additive manufacturing routes and biodegradability
		perspective

Date: 19-02-2022

SESSION-6: MATERIALS AND TECHNOLOGIES (PART-2)

TIMINGS: 9:00 AM- 11:45 PM (IST)

S. No.	Name of Presenter	Title of Paper
1	R Srinivasan	Effect of addition of Titanium carbide and Graphite
		reinforcement on Al7075 hybrid metal Matrix composites by
		gravity stir casting method
2	Vineet Kumar	Vibration Analysis of the Rectangular FG Materials Plate with
		Variable Thickness on Winkler-Pasternak-Kerr Elastic
		Foundation
3	Ahmad Majid Qazi	The impact of smart materials, digital twins (DTs) and Internet
		of things (IoT) in an Industry 4.0 integrated automation
		industry
4	Shahazad Ali	Robotic MIG Welding Process Parameter Optimization of Mild
		Steel EN24T
5	Bhavya Prakash	The Study of Mechanical and Metallographic Properties of
		Friction Stir Processed AMMCs Using Different Reinforcement

6	Abhijeet Kumar	Influence of process parameters on capital cost, efficiency of
		CSP based solar power plants- A Review
7	Richa Rani	Smartly Engineered "Off-On" Switchable Probe: For the
		Recognition of Toxic Analytes in Semi-aqueous Medium
8	Mustufa Haider	A Study on Grain Size Variation Across Thick Section Friction
	Abidi	Stir Weldments

SESSION-7: ADVANCED MANUFACTURING TECHNOLOGIES (PART-2)

TIMINGS: 9:00 AM- 11:45 AM (IST)

S. No.	Name of Presenter	Title of Paper
1	Deepti Ranjan Sahu	Surface integrity analysis in powder mixed EDM of Nimonic
		263
2	Vishal Kumar	Parametric Study and Optimization of GMAW Based AM
		process for Multi-layer Bead Deposition
3	Fayaz Ahmad Mir	Friction based solid State welding- A Review
4	Mohammad Arif	Friction Stir Welding and Friction Stir Spot Welding of
		Polymethyl methacrylate (PMMA) to other materials: A
		Review
5	Om Prakash	Investigation on the Friction Stir assisted Lap joining of pure
		copper and aluminium 6063 alloy
6	Aryan Rai	Fused deposition modelling (FDM) based 3D and 4D printing:
		A State of Art Review
7	Siddharth Mishra	Effect of Infill Pattern and Infill Density on Mechanical
		Behaviour of FDM 3D Part – A Review

SESSION-8: DESIGN, SIMULATION AND ANALYSIS

TIMINGS: 12:30 PM- 3:15 PM (IST)

S. No.	Name of Presenter	Title of Paper
1	Mohamed Serier	Numerical study of a cantilever beam carries a crack by
		response surface methodology
2	Sujata Kaushik	Machine Vision based automated inspection approach for
		Clutch Friction Disc (CFD)
3	Shwet Shikha	Flexural analysis of functionally graded sandwich plate with
		piezoelectric face sheet based on Lagrangian Mechanics
4	Navneet Kumar	Composite support system for 1.5 Tesla whole-body MRI
	Suman	cryostat
5	Alok Vardhan	Effect of various functional parameters on the dynamic trend of
		bent-axis motor

6	Alr Prathyusha	A Review on Additive Manufacturing and Topology
		Optimization Process for Weight Reduction Studies in Various
		Industrial Applications
7	Shubham Choudhary	Effect of Material Removal Characteristics with Varying
		Incident Angle in Fluid Jet Polishing Process
8	Gaurav Kumar	A State of Art Review of instability in Parallel Channels of
		supercritical fluid in nuclear applications

SESSION-9: DESIGN, SIMULATION AND ANALYSIS

TIMINGS: 12:30 PM- 3:15 PM (IST)

S. No.	Name of Presenter	Title of Paper
1	Arkadeep Paul	Numerical simulation to predict printed width in EHD inkjet
		3D printing process
2	Kaleru Aparna	Development of efficient compressor wheel for turbocharger by
		varying number of blades
3	Abdul Khaliq Ansari	Effects of damping behavior of aluminium matrix composite
		rotor on bearing vibration
4	Abhishek Pratap	Numerical Study of Pollutant Exposure of Urban Street Canyon
	Singh	Buildings
5	Yukta	Design and Development of All Wheel Drive Transmission
		System for an All-Terrain Vehicle
6	William Kery	Modelling and Analysis of Car Wheel rim for Weight
	Gadwala	Optimization to Use Additive Manufacturing Process
7	Priya Singh	Post-combustion carbon capture by polymeric membrane: A
		Review