

ADMMS'23 SAE INTERNATIONAL CONFERENCE



Advances in Design, Materials, Manufacturing and Surface Engineering for Mobility

TECHNICAL PAPER PRESENTATION SCHEDULE

ADMMS'23 - Event Schedule, Venue: SRM Institute of Science & Technology, Chennai.

DAY	07:30 - 09:00	09.00 - 09.45	09.45 – 10.30	10.30 -11.00	11.00 -13:00	13:00 -14:00	14:00 -14:30	14:30 -15:00	15:00 - 15:30	15:30 - 17:30	17:30 - 19:00	19:00 - 20:00
27-Oct-23	Breakfast and Registration	Inauguration and Key note Plenary Session - 3		Networking	Session 1 - 4 Networking		Plenary Session - 1	Plenary Session - 2	Networking	Session 5 - 8		Dinner
28-Oct-23	Breakfast and Registration			TEA	Session 9 - 12	LUNCH		resentation & Session - 4	TEA	Valedictory		

All				
Time	Session 1	Session 2	Session 3	Session 4
TIME	Design - I	Materials - I	Manufacturing- I	Modelling & Analysis - I
	Improvement of torque density using output reduction method in Transmission 2023-28-0050 Authors from Mahindra & Mahindra, Ltd	Experimental Investigations on NOx Reduction Using Antioxidant Additives in Conjunction with SCR in a Diesel Engine Powered by Ricinus Communis Biodiesel 2023-28-0059 Authors from Mohan Babu University	Machinability Investigations on Wire Electrical Discharge Machining of Aluminium Based Composites for auto parts 2023-28-0075 Authors from Mohan Babu University;	CFD Analysis of Fuel Tank to Reduce Liquid Sloshing Sayan Biswas Vellore Institute of Technology, Chennai; 2023-28-0084 Authors from Vellore Institute of Technology, Chennai;
	Revolutionizing Electric Mobility: The Latest Breakthroughs in Tyre Design 2023-28-0056 Authors from Apollo Tyres, Ltd	Experimental investigation on the properties of briquettes made from ideal municipal waste materials: an alternate fuel 2023-28-0060 Authors from SRM Institute of Science and Technology	Mechanical and Microstructure Analysis of Pulsed Current Gas Tungsten Arc Welded Dissimilar Duplex UNS 2205 and Austenitic (ASS 321) Stainless Steel Joints 2023-28-0076 Authors from JNTUA, Ananthapuramu	Numerical Investigation on the Design and Development of Automotive Exhaust Muffler A Case Study 2023-28-0085 Authors from Mahindra Research Valley;
	Design and Analysis of Retrofit for Root Crop Harvester 2023-28-0052 Authors from Bannari Amman Institute of Technology	Performance investigation on diesel engine powered by ternary blends of linseed and calophyllum inophyllum methyl esters 2023-28-0061 Authors from Mepco Schlenk Engineering College;	Parallel Scheduling of Machines and Tools Without Tool Delay Using Symbiotic Organisms Search Algorithm 2023-28-0142 Authors from Annamacharya Institute of Tech and Sci.;	Design and Thermal Analysis of Battery Thermal Management System for EV 2023-28-0087 Authors from Bannari Amman Institute of Technology;
27th October, 2023	Cold Condition N to 1 Gearshift Blockage Analysis in A Manual Transmission Gearbox 2023-28-0053 Authors from Mahindra & Mahindra Ltd	Experimental investigation of plastic pyrolysis oil in DI diesel engine to analyze performance and emission characteristics 2023-28-0062 Authors from St Josephs College of Engg & Tech.Palai	Evolution of regression and neural network models on Wire Electrical Discharge Machining of Nickel Based Superalloy for sports motor vehicle application 2023-28-0078 Authors from Mohan Babu University	Predictive Modeling and Process Parameter Prediction for Monel 400 Wire Electrical Discharge Machining for rocket frames 2023-28-0088 Authors from Mohan Babu University;
11:00-01:00	Integration of Automatic Speed Reducers and Motion Stabilizers for Improved Turn Ability in Two-Wheelers 2023-28-0120 Authors from Sastra Deemed to be University;	Machinability studies and the evolution of hybrid artificial intelligent tools for Advanced Machining of Nickel Alloy for aerospace applications 2023-28-0065 Authors from Mohan Babu University	Development of Artificial Neural Network model for CNC drilling of AA6061 with coated textured tool for auto parts 2023-28-0079 Authors from Mohan Babu University;	Optimization of Energy Absorption and Deformation Characteristics of Aluminium Crash Box with The Effect of Groove Along with A Screw 2023-28-0089 Authors from Hindustan Institute of Technology and Science
	Numerical Analysis and Optimization of Heat Transfer for FSAE Radiator for Various Sidepod Designs 2023-28-0055 Authors from Vellore Institute of Technology, Chennai	Preparation and characterization of Hollow glass microspheres reinforced carbon/epoxy composites 2023-28-0066 Authors from DRDO;	Load Bearing Analysis of a Titanium surface ground with 6%CNT incorporated Grinding Wheel. 2023-28-0080 Authors from SRMIST;	Modelling of an IPMSM drive and Investigation of the Torque ripple and THD with SVPWM and SPWM 2023-28-0090 Authors from ZF India Pvt. Ltd.;
	Synchronizer Spring Failure - Investigation and Design Recommendations 2023-28-0051 Authors from Mahindra & Mahindra Ltd	Development of Organic Composite Materials for Brake pads 2023-28-0069 Authors from VR Siddhartha Engineering College	Design And Fabrication of FDM Adapter Head Setup for CNC Milling Machine 2023-28-0081 Authors from Bannari Amman Institute of Technology;	Suppression of B-Field & E-Field Effects on Resolver due to Overhang Components in Traction Motor Applications. 2023-28-0091 Authors from ZF India Pvt. Ltd.;
		-		Investigation on Hybrid Cooling Topologies of Li-ion Battery Pack for Electric Vehicles 2023-28-0173 Authors from NIT Trichy







ADMMS'23 SAE INTERNATIONAL CONFERENCE



Advances in Design, Materials, Manufacturing and Surface Engineering for Mobility

TECHNICAL PAPER PRESENTATION SCHEDULE

ADMMS'23 - Event Schedule, Venue: SRM Institute of Science & Technology, Chennai.

DAY	07:30 - 09:00	09:00 - 09:45	09.45 – 10.30	10.30 -11.00	11.00 -13:00	13:00 -14:00	14:00 -14:30	14:30 -15:00	15:00 - 15:30	15:30 - 17:30	17:30 - 19:00	19:00 - 20:00	
27-Oct-23	Breakfast and Registration	Inauguration and Key note	Networking	Session 1 - 4 Networking LUNCH	Networking	Plenary Session - 1	Plenary Session - 2	Networking	Session 5 - 8		Dinner		
28-Oct-23	Breakfast and Registration	Plenary Session - 3	Section 9 - 12		Poster Pre & Plenary Se	•	TEA	Valedictory					

1.1				
Time	Session 5	Session 6	Session 7	Session 8
	Materials - II	Manufacturing- II	Modelling & Analysis - II	Manufacturing- III
	Investigation of Mechanical Properties and Drilling parameters of Sesbania rostrata Fiber Reinforced Polycaprolactone Biodegradable Composite 2023-28-0073 Authors from K S Rangasamy College of Technology	Artificial Intelligence model for Machinability investigations on Drilling of AA6061 with micro textured tool for automobile applications 2023-28-0082 Authors from Mohan Babu University;	Moisture induced mechanical characterization of composite through numerical simulation 2023-28-0092 Authors from Indian Institute of Information Technology;	Application of Taguchi based ANFIS approach in Wire Electrical Discharge Machining of Inconel 625 for automobile applications 2023-28-0148 Authors from Mohan Babu University;
	Investigation on Micro-explosion effect using Water blended Karanji Ester in a CI Engine with Exhaust Gas Recirculation 2023-28-0074 Authors from Mohan Babu University, Tirupati;	Optimization of Spark Erosion Machining of Monel 400 alloy for automobile applications 2023-28-0140 Authors from Mohan Babu University;	Design of Solar Power Conversion using Silicon Nanowire Photonic Crystals for Electric Vehicles 2023-28-0093 Authors from Mohan Babu University	A Comparative Analysis on Corrosion Behavior on Precipitation Hardened Stainless Steel Weldments for Car parts 2023-28-0149 Authors from Adhi College of Engineering and Technology;
27th Octob 2023	Performance and emission investigation of Linseed oil Jatropha oil ternary blends in a direct injection diesel engine fuelled with ethanol as an additive 2023-28-0125 Authors from Mepco Schlenk Engineering College	Optimizing Concurrent Scheduling of Machines and Tools in a Flexible Manufacturing System with Alternating Machines using the Flower Pollination Algorithm 2023-28-0141 Authors from Annamacharya Institute of Tech and Sci.;	Design, Modelling and Simulation of Adaptable Marine and Terrestrial Cleaner 2023-28-0165 Authors from Bannari Amman Institute of Technology;	Iot Integrated Advanced Mor-Sockets For Smart Devices 2023-28-0150 Authors from,SRM Institute of Science and Technology
03:30-05:	30 Development of asbestos free aramid fibre based friction lining material for automotive application 2023-28-0122 Authors from RVS Education Trust Group of Insitution;	Multi-objective optimization of laser cutting process on Al7075 metal matrix composites for Automobile Applications 2023-28-0077 Authors from JNTU College of Engineering Anantapuram;	Modelling and Simulation of Solar Powered Thermoelectric Generator for Electric Food Delivery Pick-up Truck 2023-28-0096 Authors from VNR Vignana Jyothi Institute of Engineering;	Application of Taguchi Approach on Wire Electrical Discharge Machining of SS304 for automotive applications 2023-28-0151 Authors from Mohan Babu University;
	Machinability Investigations on Wire Electrical Discharge Machining of Inconel 625 by Taguchi based Grey Approach 2023-28-0124 Authors from Mohan Babu University	Machinability Investigations on Ti-6AI-4V (Grade 5) Wire Electrical Discharge Machining Using the Taguchi Approach for auto parts 2023-28-0144 Authors from Mohan Babu University	Study the Effect of Pneumatic Valve Characteristics due to Linear and Non- Linear Damping System 2023-28-0160 Authors from ZF Group;	Application Of Grey Taguchi Method For Optimization Of Edm Process Parameters On Stircasted Aluminium Hybrid Metal Matrix Composites 2023-28-0152 Authors from MohanBabu University;
	Investigations on the effects of chemical treatment on mechanical Properties of Thespesia Lampas fiber reinforced composites for Automobile Applications 2023-28-0121 Authors from Mohan Babu University		Design Improvement of an Automotive- shock Absorber Component Subjected to Fretting Fatigue 2023-28-0157 Authors from Rambal Limited, Thiruporur, Tamil Nadu;	Optimization of Axial Forming Process Parameters through Mathematical Modelling Approach 2023-28-0154 Authors from ZF India Private Limited;
;	Development of silicon carbide dispersed steel using Wire Arc Additive Manufacturing process 2023-28-0126 Authors from SRM Institute of Science and Technology;	Application of optimization Technique on Spark Erosion Machining of AA 2014 alloy for aircraft components 2023-28-0146 Authors from Mohan Babu University	Optimization of Cooling Efficiency in Inverter Assembly using Numerical and Experimental Analysis 2023-28-0162 Authors from ZF India Ltd;	Investigations on Wire Electrical Discharge Machining of Magnesium Alloy for automobile parts 2023-28-0155 Authors from Mohan Babu University;





ADMMS'23 SAE INTERNATIONAL CONFERENCE



ociety of Automotive Engineers

Advances in Design, Materials, Manufacturing and Surface Engineering for Mobility

TECHNICAL PAPER PRESENTATION SCHEDULE

ADMMS'23 - Event Schedule, Venue: SRM Institute of Science & Technology, Chennai.

DAY	07:30 - 09:00	09:00 - 09:45	09.45 – 10.30	10.30 -11.00	11.00 -13:00	13:00 -14:00	14:00 -14:30	14:30 -15:00	15:00 - 15:30	15:30 - 17:30	17:30 - 19:00	19:00 - 20:00
27-Oct-23	Breakfast and Registration	Inauguration and Key note		Networking	Session 1 - 4	Networking	Plenary Session - 1	Plenary Session - 2	Networking	Session 5 – 8		Dinner
28-Oct-23	Breakfast and Registration	Plenary Session - 3	Session 9 - 11	TEA	Session 9 - 11	LUNCH	Poster Pre 8 Plenary Se	•	TEA	Valedictory		

Time	Session 9	Session 10	Session 11	Session 12
	Advanced Mobility- I	Design - II	Materials - III	Modelling & Analysis - III
	Integration of Bilevel Model and Mixed Integer Linear Programming for Optimization of Electric Vehicle Charging Stations with Distributed Energy Sources 2023-28-0100 Authors from SRM Institute of Science and Technology	Analysis of Transient Thermoelastic Behaviour in Disc Brakes Using Finite Element Methods 2023-28-0057 Authors from FCA Engineering India Pvt Ltd;	Influence of Al2O3 and TiO2 nanoadditive biodiesel blends on Performance and Emission Parameters of a DI Diesel engine 2023-28-0127 Authors from Anchupogu Bapatla Engineering college;	Ride Comfort Analysis of Passive and Air Suspension System of Quarter-and-Half Car Using MATLAB/SIMULINK 2023-28-0159 Authors from ZF India Ltd;
	Approach to Develop Reliable Two-Wheeler EV Powertrains 2023-28-0101 Authors from BLW Precision Forging Ltd.;	Impact of Tyres on Electric Vehicle Ride Comfort Performance 2023-28-0058 Authors from Apollo Tyres, Ltd.	Enhancing the performance of DOC and SCR after-treatment devices using statistical techniques and heating strategies 2023-28-0128 Authors from SRM Institute Of Science And Technology;	Interleaved Landsman Converter Fed EV Battery Charger 2023-28-0098 Authors from SRM Institute of Science and Technology
	Static inductive wireless charging station for electric vehicle 2023-28-0102 Authors from SRM Institute of Science and Technology	Experimental investigation of Efficiency Enhancement of Manual Transmission Gearbox Synchronizer Rings for the Enrichment of Gearshift Quality 2023-28-0114 Authors from Mahindra & Mahindra, Ltd.	Preparation of Copper Zinc Tin Sulfide Thin Films Solar Cells By Chemical Synthesis 2023-28-0139 Authors from Mohan Babu University;	Computational study on the handling performance expected upon converting propulsion system of a scooter from IC engine to Electric 2023-28-0158 Authors from Sastra Deemed to be University
	Electric Bikes as Exercise Equipment: A Technical Study on Design and Energy Recovery for Home and Fitness Center Use 2023-28-0104 Authors from Valeo India Private Limited;	Improving The Gearbox Efficiency By Reducing Drag Loss In Automotive Manual Transmission 2023-28-0115 Authors from Mahindra & Mahindra, Ltd.;	Effect of ZrO2 nanoparticles loading on the Tribo-Mechanical behavior of magnesium alloy nanocomposites 2023-28-0130 Authors from Dhanalakshmi Srinivasan Institute of tec;	Multiple Regression Analysis for Ti-6AI-4V Wire Electrical Discharge Machining (Grade 5) for light weight automobile applications 2023-28-0163 Authors from Mohan Babu University;
28th October, 2023 09:45-01:00	Comparative analysis of control techniques for Electric Vehicle with PMSM motor drives for Voltage selection techniques and torque-flux mitigation 2023-28-0105 Authors from SRM Institute of Science and Technology	Reduction In Synchronizer Ring Wear and Improving the Cone Torque Generation by Enhancing the Lapping Operation Using Statistical Technique 2023-28-0116 Authors from Mahindra & Mahindra Ltd;	Development of Hybrid Natural Fiber Composite Material for Automotive Applications 2023-28-0131 Authors from Geethanjali College of Engineering and Technology	Simulation and Analysis of Quarter Car Model for Low-Cost Suspension Test Rig 2023-28-0164 Authors from Bannari Amman Institute of Technology
03.45-01.00	An Assessment of Performance of Compression Ignition Engine fueled with Diesel-Biobutanol Blends enhanced with Castor Oil for properties 2023-28-0107 Authors from Hindustan Institute of Technology & Science;	Modeling and Analysis of Motorcycle Assembly for Dynamic Investigation 2023-28-0117 Authors from Vellore Institute of Technology Chennai	Effect of Soft Reinforcement Particles on Microstructural, Mechanical and Tribological Properties of Sintered Copper- Based Brake Composite Friction Material 2023-28-0132 Authors from IIT Madras	Evaluation of Mechanical Vibration in Permanent Magnet Electric Motor Construction and its effects in speed high Operation. 2023-28-0171 Authors from Hindustan Institute of Tech. Science;
	Design of an efficient bidirectional buck boost converter for V2G and G2V operation in Electric Vehicles 2023-28-0176 Authors from SRM Institute of Science and Technology	Virtual Reality based study on pre-impact position of Auto Rickshaw Driver 2023-28-0118 Authors from Sastra Deemed University;	ADI - Green Design Alternative for Circular Economy 2023-28-0134 Authors from Volvo	Application of Taguchi based ANFIS approach in Wire Electrical Discharge Machining of Haste alloy C276 for automobile applications 2023-28-0167 Authors from Mohan Babu University;
	Experimental Investigation on Biogas operated Electric Vehicle Charging Station 2023-28-0178 Authors from Kongu Engineering College;	An evaluation of Gear-Shift Impulse of Two Different Architectures of a High-Torque Capacity Manual Inline Transmission 2023-28-0119 Authors from Mahindra & Mahindra, Ltd.;	Taguchi's Approach to Wire Electrical Discharge Machining of Magnesium Alloy AZ31B 2023-28-0136 Authors from Mohan Babu University	Modelling and Simulation Methodology for Mechanical control cable to accurately predict the Performance and Efficiency 2023-28-0168 Authors from Mahindra & Mahindra, Ltd.;
	Design and Investigation of Automatic Trash Collecting Machine for Industry 2023-28-0179 Authors from KCG College of Technology;	Effect Of Temperature on Synchronizer Ring Performance 2023-28-0054 Authors from Mahindra Research Valley	A Comprehensive Exergy Analysis of CI Engines with Hydrogen Injection for Enhanced Performance 2023-28-0129 Authors from Srm Institute of Science And Technology;	Design Optimization of Solar Energy Harvesting using Perovskite Solar Cell For Electric Vehicles using Finite Element Method 2023-28-0095 Authors from Mohan Babu University



INTERNATIONAL.