

# International Conference on Advances in Design, Materials, Manufacturing and Surface Engineering for Mobility (ADMMS'18)

**ADMMS'18 - Event Schedule, Venue: Madras Institute of Technology, Chennai.**

DAY	07:30 - 09:00	09:00 - 10:30	10.30 - 11.00	11.00 - 13:00	13:00 - 14:00	14:00 - 15:30	15:30 - 16:00	16:00 - 17:30	18:30 - 21:00
<b>20-Jul-18</b>	Breakfast and Registration	Inauguration and Key note	<b>Networking TEA</b>	Session 1, 2 & 3	<b>Networking LUNCH</b>	Session 4 & 5	<b>Networking TEA</b>	Panel Discussion	<b>Networking DINNER</b>
<b>21-Jul-18</b>	Breakfast and Registration	Plenary Session 1 and 2		Session 6, 7 & 8		Plenary Session 3 and 4		Valedictory	

## Technical Paper Presentation Schedule

FRIDAY, 20 <sup>th</sup> July 2018						
Time	Session 1 Product Design - I	Session 2 Modeling & Analysis-I	Session 3 Advance Material and Application - I	Time	Session 4 Manufacturing Processes	Session 5 Advance Material and Application - II
11:00 - 11:20	Sustainability and Production Economics of Titanium for Engine Valve: India Perspective 2018-28-0002 Vikrant Garud, Pimpri Chinchwad College of Engineering	Finite Element Sliding Wear Simulation of 2D Steel-on-Steel Pin-on-Disc Tribometer 2018-28-0011 Kunal Kumar Bose, IIT MADRAS.	Nano-Fiber Filters for Automotive Applications 2018-28-0041 Rajat Malviya/Malviya Institute Of Technology	16:00 - 16:20	Parametric Study, the Process Benefits, Optimization and Chip Morphology Study of Machining Parameter on Turning of Inconel 718 Using CVD Coated Tool and Nd: YAG Laser 2018-28-0029 Venkatesan Kannan/Vellore Institute of Technology	Informatics based design of bio-lubricant with nano friction modifiers and evaluation of its tribological properties 2018-28-0100 ShubrajitBHAUMIKSRM Institute of Science and Technology
11:20 - 11:40	Design of a Ballistic Composite Cover Plate for Armoured Fighting Vehicles 2018-28-0008 Hafeezur Rahman,C V R D E	Heat Transfer Augmentation of Compact Plate Fin Heat Exchanger Using Modified Fin Surfaces 2018-28-0012 N Ganesh, Redlands Ashlyn Motors Plc	Tribological Effects of Multiwall Carbon Nanotube (MWCNT) on Cu Based Hybrid Composite Brake Friction Material for Medium Duty Automotive Applications 2018-28-0048 PetchiappanRajajiIT MADRAS	16:20 - 16:40	Optimization of Electrical Discharge Machining of Titanium Alloy (Ti-6Al-4 V) Using Taguchi-DEAR Method 2018-28-0032 Vikram Reddy Vaddi,Jayamukhi Institute Of Technological Sci	Corrosion behaviour of Ni-P and Ni-P Composite Plated Piston Ring 2018-28-0103 Mmalathi, JP Rings Ltd
11:40 - 12:00	LIMBS RELATED HANDICAP DRIVABLE NON COMMERCIAL ELECTRIC SHUTTLE VEHICLE 2018-28-0055 Renold Elsen	Design Optimization of an Epoxy Carbon Prepreg Drive Shaft and Design of a Hybrid Aluminium 6061-T6 Alloy/Epoxy Carbon Prepreg Drive Shaft 2018-28-0014 Venkatesan Kannan, Vellore Institute of Technology	FRICITION STR WELDING OF ALUMINUM 6082 2018-28-0051 Santhosh Aadhari, Geethanjali College of Engg and Tech	16:40 - 17:00	BMW Resistance Spot Weld Parameter Standardization through Parameter Optimization across Various Sheet Metal Panel Combinations 2018-28-0034 Ganesan Selvam, BSA Crescent Institute of Science&Tech.	Experimental Investigation on CO <sub>2</sub> -sub-2c/sub- Reduction in Exhaust Gases of CI Engine Fuelled with Blend of Cotton Seed Oil Methyl Ester and Diesel 2018-28-0035 BalajiGnanasikamaniSRM Institute of Science and Technology
12:00 - 12:20	BIKE WITH MODIFIED STEERING SYSTEM TO ASSIST PEOPLE WITH FOREARM DISABILITY 2018-28-0062 Vivekananthan Mathiyalazhan,Assistant Professor, MIET.	Experimental Investigation on Combined Performance Improvement and Emission Reduction in a MENO Fuelled CI Engine with Oxygenated and Antioxidant Additives 2018-28-0020 Balaji Gnanasikamani , SRM Institute of Science and Technology	Effect of Micro Texture on Tribological Performance of Piston Ring-Cylinder Liner System under different lubrication regimes 2018-28-0052 Parul Mishra, IIT MADRAS	17:00 - 17:20	Optimization of Process Parameters for Electro Discharge Machining of Al 7075 – Al2O3 Nano Composite using Different Electrode Materials 2018-28-0093 Kannan C, VIT University	Application of TOPSIS with Taguchi Method for Multi-attribute Optimization of Machining Parameters in EDM 2018-28-0033 Vikram Reddy Vaddi,Balaji Institute Of Technological Sci
12:20 - 12:40	Experimental Field Performance Analysis of Small Weed Remover in Sugarcane Grassland 2018-28-0063 Prabu K,VIT University, Vellore.	Data Driven Modeling of In-Cylinder Pressure of a Dual Fuel Compression Ignition Engine Operated with Renewable Fuels Using State Space Approach 2018-28-0022 Sasikumar Nandagopal, Hindustan Institute of Technology&Science	Exhaust emissions reduction from neat biodiesel operated diesel engine using catalyst coated piston and antioxidant additive. 2018-28-0053 Silambarasan Rajendran, Narasu's Sarathy Institute of Technology	17:20 - 17:40	DEVELOPMENT AND CHARACTERIZATION OF AL-GNPs/COMPOSITES BY STR CASTING METHOD 2018-28-0096 Bhanu Prakash Palampalle, Bhanu	Mathematical Model Validation of Experimental results of SiCp/Al2O3Ceramic Matrix Composites Prepared by Directed Metal Oxidation of an Al Alloy 2018-28-0046 Dr Devaliah Malkapuram ,geethanjali college of engg and tech

SATURDAY, 21 <sup>th</sup> July 2018			
Time	Session 6 Product Design - II	Session 7 Modeling & Analysis-II	Session 8 Composite Materials
11:00 - 11:20	Investigation of a Naturally Aspirated Diesel Engine Fueled with Blends of Thevetia Peruviana Seed Oil under 8-Mode Testing Cycle 2018-28-0006 Rohit Sreenivas ,Vel Tech Inst. of Science and Technology.	Empirical and Artificial Neural Network Modeling of Laser Assisted Hybrid Machining Parameters of Inconel 718Alloy 2018-28-0023 Venkatesan Kannan,Vellore Institute of Technology	A Study on the turning characteristics and optimization of M05p2 and SiCp - Reinforced Al-Si10Mg metal matrix composites 2018-28-0043 Venkatesan Kannan, Vellore Institute of Technology
11:20-11:40	Utilization of Diesel-Ethanol Blends in a CI Engine as a Fuel with Nano Alumina as Combustion Enhancer 2018-28-0010 Prabakaran B ,Hindustan Institute Of Tech. Science	Investigation on Underhood Airflow Management- Effect of Airflow Statistics 2018-28-0024 Subramaniam Baskar ,BSA Crescent Institute of Science&Tech	Characterization and Optimization of Mechanical Properties of Sustainable <itali>Moringa Oleifera</itali> Fruit Husk Fiber for Polymer Composite Applications 2018-28-0045 Binoy J S ,Sree Vidyanikethan Engineering College
11:40-12:00	Effect of Piston bowl geometry on Performance and Emissions with Mahua biodiesel blend 2018-28-0057 Jyothi US, GRIET, Hyderabad	Design Optimization of Urea Injectors and Mixers in a Compact SCR System 2018-28-0025 Praveena V,SRM Institute of Science and Technology	COEFFICIENT OF THERMAL EXPANSION AND ELASTIC MODULUS OF SiCp/AL2O3 CERAMIC MATRIX COMPOSITES PREPARED BY DIRECTED METAL OXIDATION PROCESS 2018-28-0047 Dr Devaliah , Malkapuramgeethanjali college of engg and tech,hyd
12:00-12:20	OPTIMISATION OF "PISTON RING PARAMETERS" OF A COMMONRAIL - TCIC DIESEL ENGINE FOR BETTER PERFORMANCE 2018-28-0059 Thangave IArumugasamy,JP Rings, Ltd.	Finite Element Simulation and Validation of Planetary Gear System 2018-28-0027 Sonu Paroche ,VE Commercial Vehicles Ltd	Evaluation on Properties of Industrial Workers Safety Helmet Using Natural Hybrid Composite 2018-28-0049 Thanikachalam J, Meppo Schlenk Engineering College
12:20-12:40	Development of Variable Stiffness Suspension System considering Handling, Comfort and Structural Fatigue 2018-28-0061 Maharishi patel,VIT University	An optimization study for occupant comfort during a three wheeled Indian Auto-rickshaw ride for low frequency vibrations 2018-28-0089 Hariharan Sankarasubramanian,Sastra Deemed University	An Analytical Study of Buckling Behavior of Nanocomposite Beams 2018-28-0050 Pranod Kumar Peyyala ,Research Scholar, JNTUK, Kakinada
12:40-13:00	Combustion and Emission Behaviour Study of Non Edible Vegetable Bio Fuel as Sole Fuel in Diesel Engine 2018-28-0072 Karthikayan S ,Professor, MLR Institute of Technology.		FABRICATION AND MECHANICAL PROPERTIES OF ALUMINA NANOPARTICLE REINFORCED MAGNESIUM METAL MATRIX COMPOSITE BY STR CASTING METHOD 2018-28-0098 Thirugana sambandham, TPRIST

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SOUTHERN SECTION



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