

INTERNATIONAL CONFERENCE ON AEROSPACE AND MECHANICAL ENGINEERING, ICAME 2018, TKMCE

MATERIALS AND MANUFACTURING STREAM (MM)

| 17 DECEMBER 2018 | | | | Venue III– APJ Hall |
|-------------------------|-------------------|-----------------|---|--|
| SL NO: | TIME | PAPER ID | AUTHORS | TITLE |
| 1 | 2.30 pm – 2.45 pm | MM01-14 | <i>Shiju V P, Abhijith N V and Dr.Sudeep U</i> | Experimental study on the influence of hydrophilicity on bacterial adhesion in bioimplants |
| 2 | 2.45 pm – 3.00 pm | MM02-18 | <i>Rajkumar V, Arjunan T.V, Adithya Vasan and Rajesh Kannan A</i> | Effect of Heat Input on Micro-Hardness and Shear Strength of Inconel 625 Hardfacing onto AISI 347 Steel pipes by GMAW Process |
| 3 | 3.00 pm – 3.15 pm | MM03-21 | <i>Dr Rajeev N and Jishnu J</i> | Establishing a relationship between machining parameters and output responses for cutting stainless steel ICSS 1218 by Wire EDM |
| 4 | 3.15 pm – 3.30 pm | MM04-26 | <i>Mahesh K and Mini R S</i> | Helmholtz resonator based metamaterials for sound manipulation |
| | 3.30 pm - 3.45 pm | TEA BREAK | | |
| 5 | 3.45 pm – 4.00 pm | MM05-02 | <i>Abhishek Arora, Bijoy Ramakrishnan, K. Uday Venkat Kiran and Ravikumar Dumpala</i> | Effect of heat treatment on mechanical and tribological characteristics of Electroless Ni-P deposits |
| 6 | 4.00 pm – 4.15 pm | MM06-23 | <i>Pariniti Singh and Chinmaya Padhy</i> | Influence of nano (h –BN) cutting fluid on machinability of Inconel 625 |
| 7 | 4.15 pm – 4.30 pm | MM07-37 | <i>Bijuna Kunju K and Shemim S S</i> | Dielectric Properties of Eco-friendly Nanofluids |
| 8 | 4.45 pm – 5.00 pm | MM08-29 | <i>Ayyappadas C, Shanu O S, Abhilash Vijayan, Mohammed Irfan A, Vishnu V and Shamnadh M</i> | Effect of graphene, SiC and graphite addition on hardness, microstructure and electrical conductivity of microwave sintered copper MMCs fabricated by powder metallurgy route |
| 9 | 5.00 pm – 5.15 pm | MM09-39 | <i>Ashok K B, Rijo Jacob Thomas and Jose Prakash M</i> | Investigation of Magnetostriction in Second Generation High Temperature Superconductors |
| 10 | 5.15 pm – 5.30 pm | MM10-45 | <i>Syed Muhammed Fahd, Krishnakumar T S, Aju Kumar V N and Agesh Markose</i> | Synthesis and Characterization of Ultrasonically Treated Al/Al₂O₃ Nanocomposites |

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MATERIALS AND MANUFACTURING STREAM (MM)

| 17 DECEMBER 2018 | | | | Venue II– PTA Hall |
|-------------------------|-------------------|-----------------|---|---|
| SL NO: | TIME | PAPER ID | AUTHORS | TITLE |
| 1 | 2.30 pm – 2.45 pm | MM11-20 | <i>Asif Afzal, Mohammed Sirajuddin, Abdul Razak Kaladgi, Chethan K.M and Avinash Avinash</i> | Modelling and Analysis of a Progressive Cam Tool for Blade Fuse Holder |
| 2 | 2.45 pm – 3.00 pm | MM12-32 | <i>J Sreejith, K Nishad, M Krishnadas, C N Krishnaprasad, Muralidharan Mamatha, V Krishnaprasad and Rajesh Menon Balakrishnan</i> | Comparison of Mechanical Properties of Zn-27Al Alloy Using Various Casting Techniques |
| 3 | 3.00 pm – 3.15 pm | MM13-41 | <i>Siddharth S and Ajith Ramesh</i> | Homogenization of Mechanical Properties of Unidirectional Fibre Reinforced Composites with Matrix and Interface Defects: A Finite Element Approach |
| 4 | 3.15 pm – 3.30 pm | MM14-08 | <i>Sanukrishna Ss and Ajin V Raju</i> | Enhancing the Thermo-physical Properties of PAG lubricant using Graphene Nano-sheets |
| | 3.30 pm - 3.45 pm | TEA BREAK | | |
| 5 | 3.45 pm – 4.00 pm | MM15-59 | <i>Mubarak Ali and Sunil C Joshi</i> | Optimal layup schemes with selective dispersion of core/shell microparticles in ply interfaces of glass/epoxy composite laminates |
| 6 | 4.00 pm – 4.15 pm | MM16-28 | <i>Gaurav Durge, Aayush Chadak, Abhimanyu Kumar Jaiswal and Ravikumar Dumpala</i> | Effect of laser power on microhardness of NiCrBSi laser clads deposited on AISI410 stainless steel |
| 7 | 4.15 pm – 4.30 pm | MM17-47 | <i>Anand Sekhar R</i> | Determining the formability of AA5052 sheets in annealed and H32 condition |
| 8 | 4.45 pm – 5.00 pm | MM18-48 | <i>Agesh Markose</i> | Polyurea coated steel plates for blast mitigation in armoured vehicles |

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DESIGN & INDUSTRIAL ENGINEERING STREAM (DI)

| 17 DECEMBER 2018 | | | | Venue I – Jubilee Hall |
|-------------------------|-------------------|-----------------|--|--|
| SL NO: | TIME | PAPER ID | AUTHORS | TITLE |
| 1 | 2.30 pm – 2.45 pm | DI01-15 | <i>Joby George and Madhusudanan Pillai</i> | A study of factors affecting supply chain performance |
| 2 | 2.45 pm – 3.00 pm | DI02-33 | <i>Ben Rajesh and A John Rajan</i> | Optimizing the exhaust emission from logistics and packing industries, by means of green logistics |
| 3 | 3.00 pm – 3.15 pm | DI03-60 | <i>Raji R, Jancy Rose K , P R Murali and R Neetha</i> | POGO Stability Analysis of a typical Launch vehicle for studying the effectiveness of POGO corrector in cryo stage |
| 4 | 3.15 pm – 3.30 pm | DI04-46 | <i>Rajesh Menon Balakrishnan, Shalij P R, Kiron K R, Sajith V S and Sreejith J</i> | Methodology for preparing a cost-value stream map |
| | 3.30 pm - 3.45 pm | TEA BREAK | | |
| 5 | 3.45 pm – 4.00 pm | DI05-34 | <i>Resmi S L, Aswanth Ann Jose, Firoz N, Hashim V and Dr.Dileep P N</i> | Finite element analysis of L3-L4 vertebrae at various body postures under osteoporotic condition |
| 6 | 4.00 pm – 4.15 pm | DI06-62 | <i>Dr. Sheik Mohammed S, Muhammedali Shafeeque K, Dr. Shihabudheen K V and Muhammed Shanir P. P.</i> | Simulation and Analysis of Solar Powered Induction Motor drive with V/f control for Electric Vehicle Applications |
| 7 | 4.15 pm – 4.30 pm | DI07-58 | <i>Dr. Nizar Hussain M</i> | A model of critical success factors for healthcare management information systems |
| 8 | 4.30 pm – 4.45 pm | DI08-51 | <i>Shajahan C A, Firoz N, Muhammed Sadhikh, V R Pramod N and Ashim</i> | Managing iterations in product development process using dependency structure matrix |
| 9 | 4.45 pm – 5.00 pm | DI09-19 | <i>Hashim V, Resmi S L and Dileep P N</i> | Effect of strut thickness on the inflation behaviour of coronary artery stent using FEM |
| 10 | 5.15 pm – 5.30 pm | DI10-52 | <i>Mohamed Shahid P A, Mohith Dadu ,Firoz N and Mohamed Sadhikh</i> | Risk Analysis in Implementation of Solar Energy Projects in Kerala |
| 11 | 5.30 pm - 5.45 pm | DI11-36 | <i>Subramanyan Embranthiri, Shajahan C A, Kumanan S and Firoz N</i> | Design process sequencing in product development process using design structure matrix and particle swarm optimisation techniques |

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FLUID AND THERMAL ENGINEERING STREAM (FT)

| 18 DECEMBER 2018 | | | | Venue I– Jubilee Hall |
|-------------------------|-------------------|-----------------|---|---|
| SL NO: | TIME | PAPER ID | AUTHORS | TITLE |
| 1 | 2.30 pm – 2.45 pm | FT01-01 | <i>Jobin Jose and Rajesh Baby</i> | Enhancement of the thermal performance of a loop heat pipe using silica – water nanofluid |
| 2 | 2.45 pm – 3.00 pm | FT02-31 | <i>Bindu S, Aromal S and Reby Roy K E</i> | Experimental study on heat transfer characteristics of liquid nitrogen through coated transfer line |
| 3 | 3.00 pm – 3.15 pm | FT03-16 | <i>Ananthu Jp and N Asok Kumar</i> | Shock tube performance studies with helium and argon using numerical simulation |
| 4 | 3.15 pm – 3.30 pm | FT04-17 | <i>R Vijayanandh, Naveen Kumar K and Ramesh M</i> | Design Optimization of Nozzle and Second Throat Diffuser System for High Altitude Test using CFD |
| | 3.30 pm - 3.45 pm | TEA BREAK | | |
| 5 | 3.45 pm – 4.00 pm | FT05-09 | <i>Mohamed Iqbal Pallipurath, Nandakishore N and Yahiya Wahid</i> | Memory Effect in Methane Hydrate Formation |
| 6 | 4.00 pm – 4.15 pm | FT06-35 | <i>Abhishek P and Baiju V</i> | Thermodynamic modelling of hybrid adsorption system |
| 7 | 4.15 pm – 4.30 pm | FT07-40 | <i>Binet Monachan, Rijo Jacob Thomas, Mathew Skaria, K A Shafi and Deepak Steaphen</i> | Simulation of Stratified Two-phase Flow Regime using Air-Water Model in ANSYS Fluent® |
| 8 | 4.45 pm – 5.00 pm | FT08-43 | <i>Leena Radhamony, Arun Raj B and Dr.Joseprakash Mathai</i> | Effect of Orifice Geometry on Heat Transfer Characteristics of Jet Array |
| 9 | 5.00 pm – 5.15 pm | FT09-30 | <i>Jesna Mohammed, Rizwan Rasheed ,Reby Roy K E and Faraz P Junaid</i> | Experimental investigation on the effect of geometry on cryogenic transfer line chill down |
| 10 | 5.15 pm – 5.30 pm | FT10-12 | <i>Kurian George, Mohamed Azeem, Rijin Raju, Sujith Surendran, Neethu Divakaran and Fazil A</i> | Study of Modified Fuel and Advanced Zeolite-Copper Oxide Nanocomposite Catalytic Converter in a Diesel Generator |
| 11 | 5.30 pm - 5.45 pm | FT11-24 | <i>Ahamed Saleel C, Sher Afghan Khan, Abdul Aabid and Mohammed Sadikh</i> | Experimental Investigation of Wall Pressure Distribution in a Suddenly Expanded Convergent Divergent Nozzle |

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AEROSPACE AND FLUID FLOW (AF)

| 18 DECEMBER 2018 | | | | Venue II– PTA Hall |
|-------------------------|-------------------|-----------------|---|--|
| SL NO: | TIME | PAPER ID | AUTHORS | TITLE |
| 1 | 2.30 pm – 2.45 pm | AF01-27 | <i>Anand Chandran C S, K S Sajikumar and K Jayaraj</i> | Numerical characterisation of the performance of flow rate on a non-contact vortex gripper |
| 2 | 2.45 pm – 3.00 pm | AF02-44 | <i>Kodati Srinivas, Lekshmi A, D Kumaresan, Suresh Mathew Thomas and Sruthy S</i> | Fluid structure interaction simulations and experimental validation of a pipeline immersed in liquid |
| 3 | 3.00 pm – 3.15 pm | AF03-57 | <i>Sooraj P V and P J Joshy</i> | Numerical study on air-core vortex in a dual port cylindrical tank for lower speed of rotations. |
| 4 | 3.15 pm – 3.30 pm | AF04-22 | <i>R Vijayanandh, M Senthil Kumar, Raj Kumar, Nishanth B and Sanjeev Kumar B Balaji</i> | Aerodynamic drag investigation of the passenger train with waste collector near windows |
| | 3.30 pm - 3.45 pm | TEA BREAK | | |
| 5 | 3.45 pm – 4.00 pm | AF05-25 | <i>Kavitha Mol S and Sadiq A</i> | Soft body projectile impact analysis for aircraft structures |
| 6 | 4.00 pm – 4.15 pm | AF06-55 | <i>A R Vishnu, Saijal Kizhakke Kodakkattu and Syed Muhammed Fahd</i> | Effect of bed temperature over producer gas composition and performance of downdraft gasifier, its validation using ASPEN PLUS and emission characteristics of an IC engine |
| 7 | 4.15 pm – 4.30 pm | AF07-63 | <i>Arun M, Amith Raj R and Jose Prakash M</i> | Numerical analysis of combustion and film cooling in LOX-methane rocket engine |
| 8 | 4.45 pm – 5.00 pm | AF08-42 | <i>Sheeba A, Mathew P and Jose Prakash M</i> | Numerical investigations on the heat transfer characteristics of tube in tube helical coil heat exchanger |
| 9 | 5.00 pm – 5.15 pm | AF09-56 | <i>Zubin Zaheer, Reby Roy, Gopakumar S Nair, Vineeth Ragipati and Niranjan U V</i> | CFD analysis of the performance of different airfoils in ground effect. |
| 10 | 5.15 pm – 5.30 pm | AF10-61 | <i>Krishnakumar T.S., Manu M and Jose Prakash M</i> | Experimental studies and artificial neural network modelling of heat transfer characteristics of TiO₂ – Water nano fluids |
| 11 | 5.30 pm - 5.45 pm | AF11-50 | <i>Arun Jacob, Anandhu Rajappan, Leena Radhamony, Shafi K A and Reby Roy</i> | Experimental and Numerical Investigations of Synthetic Jet Used for Electronic Cooling |
| 12 | 5.45 pm – 6.00 pm | AF12-54 | <i>Ahamed Saleel C and Mohammed Sadikh</i> | Characteristics of Flow over Backward-Facing Step for Low and Moderate Reynolds Numbers |