

SRI VENKATESWARA COLLEGE OF ENGINEERING

(An Autonomous Institution, Affiliated to Anna University, Chennai)

Pennalur, Sriperumbudur Taluk — 602117.

Department of Mechanical Engineering

A Report on

INTERNATIONAL CONFERENCE ON AUTOMOBILE, MARINE AND MECHANICAL ENGINEERING (ICAMME 2018)

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| Venue | : Seminar Hall, Dr. A.C.Muthiah Central Library |
| Date | 04.05.2018 to 05.05.2018 |
| Time | : 09:00am to 12:30pm & 01:30pm to 04:00pm |



Dr. S. Ramesh Babu



Dr. M. Mohandass

Coordinator



Dr. S. RAMESH BABU, M.E., Ph.D
Professor & Head
Department of Mechanical Engineering
Sri Venkateswara College of Engineering
Pennalur, Sriperumbudur (TK) - 602117.
Tamilnadu, INDIA.

Dr. S. Ramesh Babu

Convenor

**International Conference on Automobile, Marine and Mechanical Engineering
(ICAMME 2018)**

May 4th and 5th 2018

Report

The two-day International Conference on Automobile, Marine and Mechanical Engineering (ICAMME 2018) was inaugurated at Sri Venkateswara College of Engineering, Pennalur. Dr. S. Ramesh Babu, Hod/Mechanical Engineering welcomed the dignitaries. In his Presidential Address, Dr. M. Sivanandham, Visiting Professor, Department of Biotechnology and Secretary, Sri Venkateswara Educational and Health Trust touched on the various aspects of the manufacturing industry and encouraged the gathering to research for an alternate to palladium, which will revolutionize the automobile industry. Dr. S. Ganesh Vaidyanathan, Principal, SVCE, in his Presidential Address spoke about the objectives of a conference, the outcomes of an effective conference, the standard of presentation required for such International Conference and various other benefits of actively taking part in conferences. This was followed by the Inaugural Address by the Special Guest, Dr. J. Venkatesan, HoD/Automobile Engineering and Dr. M. Mohandass, Associate Professor introduced the chief guest to the gathering. Mr. S. Murali Shankar who spoke about Industry 4.0, Big Data, Cyber Security, disruptive technology, Internet of Things, Internet of Service, Internet of Data and how Internet of things has made the whole world one global village. He also spoke of the importance of integrating industry required skills in the curriculum to prepare the graduates for the reality in the industry and how there is a requirement only for people skilled in managing the various aspects of manufacturing and production as manual labor is being taken over by technological innovations which are more precise and time-saving in doing the same operations. Dr. Chin-Hsiang Cheng, the Chief Guest in his inaugural address shared his thoughts on the need to learn from one another, being brave: to be able to dream possible dreams, to face challenges, to be insistent on finding solutions for the challenges put forth, to connect with people who one is not familiar with. He also touched on the need for empathy when he spoke about being generous and joyful as ones inner joy in whatever one does will get transformed to great

innovations that revolutionize the human existence. The inaugural session came to a close with the release of the conference proceedings. Finally Prof. S. Krishnan, HoD/Marine Engineering presented the vote of thanks.











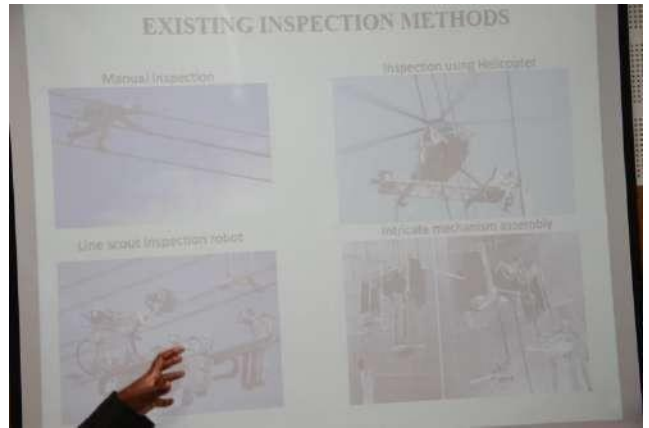
PROGRAMME SUMMARY

Day 1 (4th May -2018)

| | | | | |
|--------------------------|--|---------------------|------------------------|---------------------|
| 08.15 a.m. - 09.00 a.m. | Registration (Venue: Video hall) | | | |
| 09.00 a.m. - 10.00 a.m. | Inauguration (Venue:Function Hall) | | | |
| 10.00 a.m. - 10.15 a.m. | Tea at OAT | | | |
| 10.20 a.m. - 10.30 a.m. | Presentation by: Metal Scope India <i>Session Chair - Dr. S. Ramesh Babu, HOD/ME, SVCE</i> (Venue: Dr. A.C. Muthiah Central Library Seminar Hall) | | | |
| 10.30 a.m. - 11.15 a.m. | Key Note Lecture-1- Prof. Ching-Hsiang Cheng, National Cheng Kung University, Taiwan <i>Session Chair - Dr.J. Venkatesan, HOD/AE, SVCE</i> (Venue: Dr.A.C. Muthiah Central Seminar Hall) | | | |
| TECHNICAL SESSION | | | | |
| 11.20 a.m. - 12.40 p.m. | Hall-10-107 | Hall-10-108 | Hall-10-109 | Hall-10-110 |
| | Materials-1 | Materials-2 | Manufacturing-1 | Thermal |
| 12.40 p.m. - 01.30 p.m. | Lunch atOAT | | | |
| 01.30 p.m.-01.40 p.m. | Presentation by: Hindustan Institute of Maritime Training <i>Session Chair - Prof. S. Krishnan, HOD/MR, SVCE</i> (Venue: Dr. A.C. Muthiah Central Library Seminar Hall) | | | |
| 01.40 p.m. -02.25 p.m. | Key Note Lecture- 2 - Dr. BalasubramanianEsakki Vel Tech University, Chennai <i>Session Chair - Dr. R. Ramesh, Prof./ME, SVCE</i> (Venue: Dr. A.C. Muthiah Central Library Seminar Hall) | | | |
| 02.25 p.m. -02.35 p.m. | Presentation by: CT Research Institute, Western Thomson <i>Session Chair - Mr. S. Gopinath, Asso.Prof. /ME, SVCE</i> (Venue: Dr. A.C. Muthiah Central Library Seminar Hall) | | | |
| 02.35 p.m. - 02.50 p.m. | Tea at OAT | | | |
| TECHNICAL SESSION | | | | |
| 02.50 p.m. - 04.10 p.m. | Hall-10-107 | Hall-10-108 | Hall-10-109 | Hall-10-110 |
| | Design-1 | Automobile-1 | Manufacturing-2 | Industrial-1 |

Day 2 (5th May - 2018)

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|--------------------------|--|--------------------|------------------------|---------------------|
| 09.00 a.m. - 09.45 a.m. | <p>Key Note Lecture - 3 - Prof. Alba Baena Noe Gaudencio Professor (level “C”) for the Department of Industrial and Manufacturing Engineering at the Universidad Autonoma de Ciudad Juarez (UACJ), Juarez, Mexico <i>Session Chair - Dr. N. Muthukrishnan Prof./ME, SVCE</i> <i>(Venue: Dr. A.C. Muthiah Central Library Seminar Hall)</i></p> | | | |
| 09.45 a.m. - 10.30 a.m. | <p>Key Note Lecture - 4 - Prof. Dr. Yusri Yusof Director Strategic Planning and Risk Management Office Faculty of Mechanical and Manufacturing Engineering Universiti Tun Hussein Onn Malaysia (UTHM) <i>Session Chair - Dr. S. Ilaiyavel, Asso. Prof./ME, SVCE</i> <i>(Venue: Dr. A.C. Muthiah Central Library Seminar Hall)</i></p> | | | |
| 10.30 a.m. - 10.45 a.m. | Tea at OAT | | | |
| TECHNICAL SESSION | | | | |
| 11.00 a.m. - 12.10 p.m. | HaII-10-107 | HaII-10-108 | HaII-10-109 | HaII-10-110 |
| | Materials-3 | Materials-4 | Manufacturing-2 | Automobile-2 |
| 12.10 p.m. - 01.00 p.m. | Lunch at OAT | | | |
| 01.00 p.m. - 01.45 pm. | <p>Key Note Lecture - 5 - Prof. Vishal S Sharma Head, Department of Industrial and Production Engineering Dr. B.R.Ambedkar National Institute of Technology, Jalandhar, India <i>Session Chair - Dr. M. Mohandass, Asso. Prof./ME, SVCE</i> <i>(Venue: Dr. A.C. Muthiah Central Library Seminar Hall)</i></p> | | | |
| TECHNICAL SESSION | | | | |
| 01.45 a.m. - 02.15 p.m. | HaII-10-107 | HaII-10-108 | HaII-10-109 | HaII-10-110 |
| | Materials-5 | Design-2 | Industrial-2 | Automobile-3 |
| 02.15 p.m. - 02.30 p.m. | Tea at OAT | | | |
| 02.30 p.m. - 03.30 p.m. | Valedictory <i>(Venue: Function Hall)</i> | | | |





LIST OF TRACKS WITH PAPER ID

| Sl.No | Name of the Track | Paper ID |
|---|--------------------------|---|
| <i>Day 1 (4th May - 2018), Fore Noon (11.20 a.m. - 12.40 p.m.)</i> | | |
| 1 | Materials-1 | 10279, 10294, 10307, 10320, 10346, 10352, 10366 & 10430 Session Chair1: Dr. B. Suresha Chair2: Dr. N. Manikandan |
| 2 | Materials-2 | 10336, 10367, 10382, 10388, 10393, 10426, 10427 & 10481 Session Chair1: Dr. L. Poovazhagan Chair2: Dr. J. S. Binoj |
| 3 | Manufacturing-1 | 10277, 10323, 10333, 10334, 10335, 10338, 10419 & 10547 Session Chair1: Dr. M. Uthayakumar Chair2: Dr. N. Muthukrishnan |
| 4 | Thermal | 10326, 10389, 10441, 10458, 10499, 10540, 10730 & 10739 Session Chair1: Dr. K. Pitchandi Chair2: Dr. S. Natrajan |

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| <i>Day 1 (4th May - 2018), After Noon (02.50 p.m. - 04.10 p.m.)</i> | | |
| 5 | Design-1 | 10317, 10402, 10407, 10410, 10413 & 10467 Session Chair1: Dr. R. Ramesh Chair2: Dr. R. Murugan |
| 6 | Automobile-1 | 10316, 10348, 10377, 10380, 10394, 10403, 10416 & 10420 Session Chair1: Dr. S. Saravanan Chair2: Dr. V. Ganesh |
| 7 | Manufacturing-2 | 10432, 10440, 10450, 10456, 10461, 10473, 10502 & 10553 Session Chair1: Dr. T. Raja Dr. L. Poovazhagan |
| 8 | Industrial-1 | 10325, 10434, 10390, 10438, 10505, 10665 & 10716 Session Chair1: Dr. M. Uthayakumar Chair2: Dr. KEK. Vimal |
| <i>Day 2 (5th May - 2018), Fore Noon (11.10 a.m. - 12.10 p.m.)</i> | | |
| 9 | Materials-3 | 10342, 10391, 10444, 10446, 10448, 10466, 10484 & 10500 Session Chair1: Dr. K. Jayabal |

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| | | Chair2: Dr. M. Mohandass& Dr. M. Gajendiran |
| 10 | Materials-4 | 10518, 10520, 10521,10543, 10551, 10558 &10559 Session Chair1: Dr. M.Puviyarasan Chair2: Dr. M. Ananth Kumar |
| 11 | Manufacturing-3 | 10593, 10594, 10660, 10701, 10714, 10741, 10801& 10293 Session Chair1: Dr. S. Chezhian Babu Chair2: Dr. S. Ilaiyavel&Dr. C. SenthamaraiKannan |
| 12 | Automobile-2 | 10319, 10486, 10489, 10490, 10491 & 10497 Session Chair1: Dr. N. Kulasekaran Chair2: Dr. S. Premnath |

Day 2 (5th May - 2018), After Noon (01.45 p.m. - 02.15 p.m.)

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|----|---------------------|---|
| 13 | Materials-5 | 10568, 10592, 10596, 10664, 10666 & 10753 Session Chair1: Dr. M. Puviyarasan Chair2: Dr. S. Ponnuel |
| 14 | Design-2 | 10433, 10439, 10519 & 10732 Session Chair1: Dr. K. Jayabal Chair2: Dr. M. PremAnanth |
| 15 | Industrial-2 | 10417, 10508, 10537, 10539 & 10677 Session Chair1: Dr. S. Chezian Babu Chair2: Dr. KEK. Vimal |
| 16 | Automobile-3 | 10512, 10535, 10554 & 10699 Session Chair1: Dr. N. Kulasekaran Chair2: Dr. M. Anandan |

PROGRAMME SCHEDULE WITH PAPER TITLE

| Session | Paper ID | Author(s) | Title |
|---|----------|--|--|
| <i>Day 1 (4th May - 2018), Fore Noon (11.20 a.m. - 12.40 p.m.)</i> | | | |
| Materials-1 | 10279 | SeetharamanArulmurugan, Narayanan Venkateshwaran | FRACTURE TOUGHNESS ASSESSMENT OF NANOCCLAY FILLED FIBRE REINFORCED NANOCOMPOSITES USING INDENTATION FRACTURE MECHANICS |
| | 10294 | BhanuPalampalle, Brahmaraju K, VenkataSubbaiah K | AN EXPERIMENTAL INVESTIGATION ON AI-GNPs COMPOSITES FABRICATED BY ULTRASONIC ASSISTED STIR CASTING TECHNIQUE |

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|-------|--------------------|--|---|---|
| | 10307 | SolaiVenkatesan M, Rajagopalan K, Rajkumar K, A.Gnanavel Babu | A STUDY ON MACHINING AND QUALITY RESPONSE OF WIRE CUT EDM MACHINED TRIBO-COMPOSITES | |
| | 10320 | Rajesh kumar L, Saravanakumar A, Kamalakannan R, Arunkumar A | PREDICTION CAPABILITIES OF MATHEMATICAL MODELS FOR WEAR BEHAVIOUR OF AA2219/MgO/Gr HYBRID METAL MATRIX COMPOSITES | |
| | 10346 | Renuga Devi | CHARACTERIZATION AND OPTIMIZATION OF ALKALI TREATED TWISTED CALOTROPIS GIGANTEA YARN FIBER REINFORCED LAMINATE | |
| | 10352 | Vijay Tambrallimath, Keshavamurthy R, Saravanabavan D | THERMAL CONDUCTIVITY OF COPPER FILLED POLYMER COMPOSITES SYNTHESIZED BY FDM PROCESS | |
| | 10366 | Rajkumar C, Mariappan R, Jayavelu S | HOT FORGING PROPERTIES OF POWDER METALLURGY DUPLEX STAINLESS STEELS SINTERED IN PARTIAL VACUUM ATMOSPHERE | |
| | 10430 | Gokulkumar S, Thyla PR, Prabhu L, Sathish S | CHARACTERIZATION AND COMPARATIVE ANALYSIS ON MECHANICAL AND ACOUSTICAL PROPERTIES OF CAMELLIA SINENSIS/ANANAS COMOSUS OVER GLASS FIBER AMALGAM POLYMER COMPOSITES WITH EPOXY MATRIX | |
| | Materials-2 | 10336 | Divya G S, SureshaBheemappa, Keshavamurthy R | ROLE OF METALLIC FILLERS ON MECHANICAL PROPERTIES AND TRIBOLOGICAL BEHAVIOR OF CARBON FABRIC REINFORCED EPOXY COMPOSITE |
| | | 10367 | Vigithra R | EFFECT OF MECHANICAL PROPERTIES AND FREE VIBRATION CHARACTERISTICS OF HYBRID COMPOSITE BEAMS |
| | | 10382 | SureshaBheemappa, RaviprasadBhat, RoshanShenoy | OPTIMIZATION OF BORON NITRIDE FILLED POLYARYLETHERKETONE COMPOSITES WEAR USING TAGUCHI METHOD |
| | | 10388 | Sharmila B | THE EFFECT OF HOT FORGING ON MECHANICAL CHARACTERISTICS OF AL356 HYBRID METAL MATRIX COMPOSITES |
| 10393 | | Binoj J S, Manikandan N, Krupakaran R L, RameshRaju, BhanuPalampalle | CHARACTERIZATION OF DISCARDED MORINGA OLEIFERA FRUIT HUSK FIBER AS A SUSTAINABLE REINFORCEMENT FOR POLYMER COMPOSITE APPLICATIONS | |
| 10426 | | NaveedAnjum, SureshaBheemappa, Ajit Prasad S L | CHARACTERIZATION OF PHYSICO-MECHANICAL PROPERTIES OF SANSEVIERIA/CARBON FIBER REINFORCED HYBRID EPOXY COMPOSITE WITH AND WITHOUT PARTICULATE FILLERS | |
| 10427 | | GopinathanPalani | MODELLING AND STATIC ANALYSIS OF FEMORAL COMPONENT IN KNEE JOINT FOR 3D PRINTING APPLICATION | |
| 10481 | | Krishna , SureshaBheemappa, Hemanth R, Kamaraj M | SOLID PARTICLE EROSION BEHAVIOR OF SHORT GLASS FIBER AND PARTICULATE REINFORCED POLYOXYMETHYLENE/POLYTETRAFLUROETHYLENE COMPOSITES | |

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|------------------------|----------------|---|---|
| Manufacturing-1 | 10277 | Umanath K, Devika D, SrideviSeshabhatur | A REVIEW ON ABRASIVE WATER JET MILLING OF HIGH STRENGTH MATERIALS |
| | 10323 | Manikandan G, Jaiganesh V | ECO-FRIENDLY FIBERS REINFORCED COMPOSITES MADE FROM TAMARINDUS INDICA WITH EPOXY AND BISPHENOL RESIN |
| | 10333 | Vasanthakumar KP, Dr.Balasubramanian M | OPTIMIZATION OF FRICTION STIR WELDING PARAMETER FOR DISSIMILAR ALUMINIUM AND MAGNESIUM ALLOYS USING RSM. |
| | 10334 | JagannathanSundara babu, SanthoshSrinivasan, Anantha Raman, BalamuruganMurugan | EXPERIMENTATION AND COMPARATIVE STUDY OF E6013 AND E7018 WELDMENTS USING SHIELDED METAL ARC WELDING |
| | 10335 | MuniappanAppusamy, Veerabhadrrao S K, Thiagarajan C, Jayakumar V | EXPERIMENTAL INVESTIGATION, MODELING AND OPTIMIZATION OF WIRECUT EDM PROCESS PARAMETERS OF SIC AND GRAPHITE REINFORCED ALUMINUM HYBRID COMPOSITES |
| | 10338 | MuniappanAppusamy, Thiagarajan C, Jayakumar V | EXPERIMENTAL INVESTIGATION OF WIRE CUT EDM PROCESS PARAMETERS USING RESPONSE SURFACE METHODOLOGY AND MULTI-OBJECTIVE OPTIMIZATION USING GRAY RELATIONAL ANALYSIS. |
| | 10419 | Karthee K, Yeshwant Raj S, Vishal SankarSivasankar | A REVIEW ON RAPID PROTOTYPING (RPT): RECENT TRENDS, FUTURE & INFLUENCE OF INTERNET OF THINGS (IOT)/CLOUD MANUFACTURING (CM) |
| | 10547 | MuruganRamasamy, V Manickam, P Milton, G Gnanakumar | OPTIMIZATION OF MACHINING PARAMETERS IN END MILLING OF AL6063 USING TAGUCHI METHOD |
| | Thermal | 10326 | KumaresanGovindaraj |
| 10389 | | Suresh Mariappan | INVESTIGATIONS ON A VORTEX TUBE AS INDUSTRIAL AUXILIARY COOLING DEVICE |
| 10441 | | Yeshwant Raj S, Karthee K, ArvindDwarakanath, Ashwin R | INCREASING THE EFFICIENCY OF REGENERATIVE AIR PREHEATER (RAPH) THROUGH LEAKAGE REDUCTION BY RETROFITTING THE RADIAL AND AXIAL SEALS |
| 10458 | | Ravi Sankar B, Umamaheswarrao P, Praveen A | HEAT TRANSFER AUGMENTATION OF LOOPED HEAT PIPE USING WATER-AL2O3 NANOFLUID |
| 10499 | | HariharanGovindaraj, SenthilKumar N, Gopalakannan S | MODELING & NUMERICAL ANALYSIS OF SUPERSONIC COMBUSTOR WITH DOUBLE INCLINED RAMP-CAVITY FUEL INJECTOR |
| 10540 | | Amit Kumar, ApurbaLayek | THERMAL PERFORMANCE INVESTIGATION OF A SOLAR AIR HEATER HAVING TRANSVERSE CIRCULAR RIB ROUGHENED ABSORBER PLATE USING CFD APPROACH |

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| | 10730 | Manoj Kumar Prabhakaran, Pavun Raj R, Prakash G | PERFORMANCE ENHANCEMENT OF DOMESTIC REFRIGERATOR USING TES BY INTEGRATING DIFFERENT PCM OVER THE EVAPORATOR FOR VARIOUS LOAD CONDITIONS |
| | 10739 | SathishkumarNatesan, Ashok Kumar V | EFFECT OF FIN GEOMETRY FOR VARIOUS TUBES SHAPE USING CFD SIMULATION ON MULTI-CHANNEL HEAT EXCHANGER IN MOBILE AIR CONDITIONING (MAC) |

Day 1 (4th May - 2018), After Noon (02.50 p.m. - 04.10 p.m.)

| | | | |
|---------------------|-------|---|---|
| Design-1 | 10317 | Tamil Selvi V, Ragavendran K V, Mohamed Saqib Z, Raynier Raja S | WINDSTALK-NEW ERA OF WIND ENERGY |
| | 10402 | RathinamNatarajan, PrabuBalakrishnan | NUMERICAL STUDY OF DETERMINATION OF MORE INFLUENCING DENT GEOMETRICAL PARAMETER ON BUCKLING STRENGTH OF THIN CYLINDRICAL SHELL UNDER LATERAL PRESSURE USING RESPONSE SURFACE REGRESSION |
| | 10407 | D Kamalakannan | NUMERICAL STUDY ABOUT EFFECT OF DIFFERENT BOUNDARY CONDITIONS ON COMPRESSIVE MODULUS COEFFICIENT OF BONDED AND NON-BONDED CYLINDRICAL ISOLATORS |
| | 10410 | ArockiaSelvakumar A, LalithPrabu N, Nithish Kumar R | DEVELOPMENT OF IOT CONTROLLED AGRI-BOT FOR ROOF GARDENING |
| | 10413 | ArockiaSelvakumar A, Kamil Ahmed | SIMULATION AND ANALYSIS OF 10 DOF BIPED WALKING MECHANISM |
| | 10467 | Elumalai PC, Ganesh R | NUMERICAL ANALYSIS TO IMPROVE TOOL LIFE IN ROTARY SWAGING MACHINE |
| Automobile-1 | 10316 | Udhayamoorthy P, Ragunath A, Anandan M, GaneshaMoorthy M | LATEST TECHNOLOGIES FOR LARGE MARINE DIESEL ENGINES |
| | 10348 | Utkarsh Jai, Aravind Raj S Srijan Kumar Saha, | CONCEPTUAL DESIGN AND MODELLING OF ECONOMIC HYBRID ELECTRIC TRUCK |
| | 10377 | M. SenthamilSelvan, Nallusamy N | A REVIEW ON COMBUSTION, PERFORMANCE AND EMISSION CHARACTERISTICS OF REACTIVITY CONTROLLED COMPRESSION IGNITION (RCCI) ENGINE |
| | 10380 | Prabakaran P, Velmurugan T | PERFORMANCE AND EMISSION CHARACTERISTICS OF LEMON PEEL OIL METHYL ESTERS AND IT BLENDS IN A DI DIESEL ENGINE |
| | 10394 | RamanjaneyuluKolla, Ganesh V, Boobalasantilraj A.K | SIMULATION OF LOAD TRANSFER EFFECT DURING BRAKING IN A TWO WHEELER FOR VARIOUS LOAD CONDITIONS |
| | 10403 | VijayalakshmiPushpa raj, Raju R, Elavenil E | STATIC ANALYSIS AND OPTIMISATION OF NATURAL FIBRE REINFORCED COMPOSITE PARABOLIC MONO-LEAF SPRING |

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|------------------------|-------|--|---|
| | 10416 | Bharat Kumar | PERFORMANCE AND EMISSION CHARACTERISTICS OF A CI ENGINE FUELLED WITH DIESEL-WATER EMULSION |
| | 10420 | Sai Rama Krishna Manem, Bharat Kumar, ChinnasamyLakshmi kanthan, SrinivasanRaju | EFFECT OF HELMHOLTZ RESONATOR ON INTAKE NOISE OF THE STATIONARY ENGINE EXPERIMENTALLY |
| Manufacturing-2 | 10432 | Silambarasan S, Vishraj Kb, Vignesh T, Yokeshwaran S | OPTIMIZATION OF PROESS PARAMETERS OF WIRE EDM USING GENETIC ALGORITHM |
| | 10440 | KanthaShoba M, Dr.Malar Mohan K | PARAMETRIC ANALYSIS OF INVOLUTE SPUR GEAR WITH TUNGSTEN CARBIDE AND Ni-Cr-Y-AI COATING BY DETONATION GUN SPRAY METHOD |
| | 10450 | Raja V, Vijayan D Periyasamy P, AnanthapadmanabanD | SELECTION OF APPROPRIATE FRICTION WELDING PARAMETERS WHILE WELDING ALUMINIUM TO STEEL |
| | 10456 | Deepak Kumar Jeyakrishnan, Kavin Kumar K N, Badri Narayanan R, Ramesh Babu S | MECHANICAL CHARACTERIZATION OF COLD METAL TRANSFER BUTT WELDED AA 6061-T6 ALUMINIUM ALLOY |
| | 10461 | R Prabu, Kumar K M, Joel D, Arul Srinivas | INVESTIGATION ON INFLUENCE OF PROCESS PARAMETERS IN ABRASIVE WATER JET MACHINE DURING MACHINING OF BERYLLIUM COPPER |
| | 10473 | KumaranPalani | NVESTIGATION ON ENGINE PERFORMANCE AND EMISSION PILOT INJECTION TIMING AND EGR RATES IN TWIN CYLINDER DIESEL ENGINE USING DIFFERENT BIODIESEL AND DIESEL BLENDS |
| | 10502 | DileepKarnam, Babu K | AN EXPERIMENTAL INVESTIGATION ON TURNING OF AISI 4140 USING MINIMUM QUANTITY LUBRICATION WITH CNT NANOFLUID |
| | 10553 | JaiganeshVenu | AN INVESTIGATION OF PROCESS PARAMETERS OF ACRYLIC POLYMER USING FRICTION STIR WELDING |
| Industrial-1 | 10325 | RavikumarHarikumar, ArunLogarajan, SanthanakumarMuth uvel, AdalarasanRamalinga m | OPTIMIZATION OF COMPRESSION MOULDING CHARACTERISTICS OF FIBRE GLASS REINFORCED POLYPROPYLENE USING TOPSIS |
| | 10434 | ParvathyUnnikrishna n, HariSekhar | THE EFFECT OF AGEING ON THE MECHANICAL AND TRIBOLOGICAL PROPERTIES OF ZN-AL ALLOY WIT NI REINFORCEMENT |
| | 10390 | Anusha S, DivyaNatarajan, Kamala V, Jaya Surya P, | A NEW ERGONOMIC VSM APPROACH - AN APPLICATION TO AUTO PART MANUFACTURING INDUSTRY |

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|--|-------|--|---|
| | | Prahnav Vishnu M | |
| | 10438 | NishalMurali, Ram Prasad,Arunram S P, AdithyaManivannan | IMPROVING EFFICIENCY OF WHEEL CYLINDER ASSEMBLY UNIT USING VALUE STREAM MAPPING (VSM) – A CASE STUDY |
| | 10505 | Soham G Kulkarni, Chaitanya S Kulkarni, Aravind Raj S, JayakrishnaKandasa my | STATISTICAL QUALITY CONTROL OF TORQUE WRENCHES USED IN AUTOMOTIVE ASSEMBLY DEPARTMENT |
| | 10665 | Anirudh A, ParvathyUnnikrishna n | THE EFFECT OF CASTING TEMPERATURE AND REINFORCEMENT ON THE MECHANICAL PROPERTIES OF DIE CAST ZN-AL ALLOY WITH BORON CARBIDE REINFORCEMENT |
| | 10716 | ChaitanyaChowdary | IMPLEMENTATION OF 5S AND OVERALL EQUIPMENT EFFICIENCY OF MACHINING OF HSK-A63 TOOL HOLDERS IN COMPUTER NUMERICAL CONTROL MACHINE |

Day 2 (5th May - 2018), Fore Noon (11.10 a.m. - 12.10 p.m.)

| | | | |
|---------------------|-------|--|--|
| \Materials-3 | 10342 | Jayakarthish C, Chinnasamy Subramanian, Harshavardhan K, Karthikeyan S | AGEING TEMPERATURE EFFECT ON STRENGTH CHARACTERISTICS OF NICKEL TITANIUM ALLOY |
| | 10391 | Alfred Franklin V, ChenthilJegan T.M, Vasudevan N | FRACTURE STRENGTH EVALUATION OF LAMINATED COMPOSITES USING THE MODIFIED WEK MODEL |
| | 10444 | UdayaPrakash J, Ananth S, JebaroseJuliyana S, Moorthy T V | MULTI-OBJECTIVE OPTIMIZATION OF TRIBOLOGICAL PROPERTIES OF AMCS (356/B4C) USING GREY RELATIONAL ANALYSIS |
| | 10446 | Prabhu L, Krishnaraj V, Alagarraj S, Avinash R | EXPERIMENTAL INVESTIGATION ON MECHANICAL, WATER ABSORPTION AND ACOUSTIC PROPERTIES OF GLASS/NATURAL FIBER REINFORCED HYBRID POLYMER COMPOSITES |
| | 10448 | Prabhu L, Krishnaraj V, Sathish S, Gokulkumar S | STUDY OF MECHANICAL AND ACOUSTIC PROPERTIES OF JUTE - TEA LEAF FIBER REINFORCED HYBRID COMPOSITES: EFFECT OF GLASS FIBER HYBRIDIZATION |
| | 10466 | Kumar K M, GokulBalaji T, Udayakumar A S M, Jeyakanth D.L | INFLUENCE OF AUSTEMPERING TEMPERATURE AND TIME ON THE MICRO STRUCTURE AND MECHANICAL PROPERTIES OF AN AUSTEMPERED DUCTILE IRON (ADI) |
| | 10484 | Praveen Raj P, Pazhanivel K, ElayaPeruaml A, Parthiban K | TAGUCHI ANALYSIS OF TOOL WEAR AND DELAMINATION IN MILLING OF GFRP COMPOSITE USING SOLID AND TIPPED CARBIDE K10 END MILL |
| | 10500 | Jayachandran S, Shraddha Rahul D, Akash K,, Palani I A Mani Prabu S S, | REALIZATION OF ACTUATION CHARACTERISTICS FROM AS FABRICATED NITI BIMORPH FOR MEMS DEVICE DEVELOPMENT |

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| Materials-4 | 10518 | Shivananda Murthy K V, Keshavamurthy R, Girish D P | ABRASIVE WEAR BEHAVIOUR OF HOT FORGED AL7075-FLYASH-TIO2 HYBRID METAL MATRIX COMPOSITES |
| | 10520 | Kumutha R | TRIBOLOGICAL BEHAVIOR OF MOLYBDENUM SULPHIDE COATED COLD WORKING TOOL STEEL |
| | 10521 | AreefShaik, Ravi Sankar B, Umamaheswarrao P, Vinay Krishna I, Dinesh Kumar N | INVESTIGATIONS ON MACHINING FORCE DURING END MILLING OF AA6061-SIC METAL MATRIX COMPOSITE |
| | 10543 | Ravindran S, Vignesh C Mani N, Vignesa D, AnjanShrinivas V | EXPERIMENTAL AND INVESTIGATION OF ALUMINIUM T6 NANO REINFORCED HYBRID METAL MATRIX COMPOSITES |
| | 10551 | BhanuPalampalle, NarenChakravarthy P, Brahmaraju K, J.S Binoj VenkataSubbaiah K, | AN EXPERIMENTAL INVESTIGATION ON AA7075-GNPS COMPOSITES FABRICATED BY ULTRASONIC ASSISTED STIR CASTING TECHNIQUE |
| | 10558 | Trinath K, Ramanjaneyulu G | FABRICATION AND CHARACTERIZATION OF CARBON NANOTUBES FILLED PDMS COMPOSITES |
| | 10559 | Murali G | STUDIES ON MECHANICAL PROPERTIES OF SISAL AND JUTE FIBER HYBRID SANDWICH COMPOSITE |
| Manufacturing-3 | 10593 | AnanthSubramani, UdayaPrakash J | OPTIMIZATION OF WEAR PARAMETERS OF GCI UNDER LUBRICATION AND COATING USING GRA |
| | 10594 | ShripadDiwakar, Rana Pratap Reddy | EFFECT OF INJECTOR OPENING PRESSURE ON THE PERFORMANCE AND EMISSION CHARACTERISTICS OF D.I. DIESEL ENGINE WITH METHYL ESTERS OF CALOPHYLLUM INOPHYLLUM (SURAHONNE) OIL |
| | 10660 | M Selvaraj | PREDICTION OF ENERGY EFFICIENT WELD PARAMETERS FOR FRICTION STIR WELDING OF AN ALUMINIUM ALLOY |
| | 10701 | Dhananchezian Mani | BENEFICIAL EFFECT OF LIQUID NITROGEN COOLING ON TOOL WEAR AND SURFACE ROUGHNESS DURING TURNING NIMONIC 90 ALLOY |
| | 10714 | Arularasan R | QUENCHING OF LOW CARBON STEEL IN GRAPHENE NANOFUIDS |
| | 10741 | Dr Adam Khan | SOLID PARTICLE EROSION STUDIES ON FRICTION WELDED STAINLESS STEEL |
| | 10801 | V.SenthilVelan | EFFECT OF EQUAL CHANNEL ANGULAR PRESSING (ECAP) ON MECHANICAL PROPERTIES, WEAR RESISTANCE, ELECTRICAL CONDUCTIVITY AND CORROSION RESISTANCE OF AA 6101 |
| | 10293 | Arumugam K, Kumaresan G, Damodaram R | EXPERIMENTAL ANALYSIS OF PROCESS PARAMETERS ON MACHINING INCONEL 625 ALLOY IN ELECTROCHEMICAL MICROMACHINING USING TAGUCHI-GREY |

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| | | | RELATIONAL ANALYSIS |
| Automobile-2 | 10319 | Jesintha Mary T, Tamil Selvi V, Narmadha M, NithyaSree S | ELECTRONIC FUEL INJECTION SYSTEM WITH DIGITAL LOCKING AND VALVE CONTROL MECHANISM |
| | 10486 | P.Raghu, R.Rajaraman, R.SundarRajan, M.Ramaswamy, S.SathyaNarayanan | HEAT TRANSFER INVESTIGATION ON A SINGLE CYLINDER DIESEL ENGINE USING DIESEL AND BIODIESEL |
| | 10489 | Kalyanasundaram R, SujaiPandian S P, Saravanan S | EXPERIMENTAL INVESTIGATIONS ON PPCCI ENGINE FUELLED WITH BUTANOL AND DIESEL BLENDS |
| | 10490 | Natarajan S, Arunram S P, Sam Nivethan V J, Pitchandi K | IMPACT OF ACACIA NILOTICA ON PERFORMANCE COMBUSTION AND EMISSION CHARACTERISTICS IN COMPRESSION IGNITION ENGINE |
| | 10491 | Natarajan S, Sam Nivethan V J, Pitchandi K | OPTIMIZATION OF PARAMETERS ON DIRECT INJECTION COMPRESSION IGNITION ENGINE FUELLED WITH ACACIA NILOTICA BIO DIESEL BLENDS |
| | 10497 | Ganesh R J, Arumugam S, Pitchandi K | SPRAY ANALYSIS IN A HIGH PRESSURE SPRAY CHAMBER WITH DIESEL AND BIODIESEL |

Day 2 (5th May - 2018), After Noon (01.45 p.m. - 02.15 p.m.)

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| Materials-5 | 10568 | Prathap Singh, Elilraja D, Prabhuram T, Immanuel Durai Raj J | STUDY OF TENSILE PROPERTIES OF ALKALI TREATED PANDANUS ODORATISSIMUS FIBRE REINFORCED WITH POLYMER COMPOSITE |
| | 10592 | ArumugavelSubbiah | STUDY OF EROSION AND CORROSION BEHAVIOUR OF ALUMINA AND ZIRCONIA ON STAINLESS STEEL |
| | 10596 | Tamiloli N | A COMPARATIVE STUDY ON MICROHARDNESS AND WEAR OF UNCOATED AND COATED END MILLING INSERTS |
| | 10664 | VinothkumarManoharan, JaiganeshVenu | THERMAL ANALYSIS OF NATURAL FIBER COMPOSITES REINFORCED WITH BISPHENOL-A RESIN |
| | 10666 | Jayavelu S, Mariappan R, Rajkumar C | MICROSTRUCTURE AND TENSILE PROPERTIES OF SINTERED AA2014 REINFORCED COMPOSITES |
| | 10753 | SonuRajak, Sagar H. Nikam | FINITE ELEMENT ANALYSIS OF STRESS DISTRIBUTION IN SINGLE POINT CUTTING TOOL USED FOR MACHINING OF BRONZE FILLED POLYTETRAFLUOROETHYLENE (BRZ-PTFE) COMPOSITES |
| Design-2 | 10433 | K.GovindarajKannan, PremAnanth M | EFFECT OF DIMPLE GEOMETRY AND WEAR PERFORMANCE OF DLC COATING ON UNI-DIRECTIONAL SLIDING CONTACT CONDITIONS |
| | 10439 | Senthil Kumar A, SandeepRaghavan T, SathyaSaiPrasath R.N, Govindaraj K, | TRIBOLOGICAL STUDY OF COATED NON FERROUS ALLOY SUBSTRATE |

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| | | Dr. PremAnanth M | |
| | 10519 | Selvaraj.PParamasiva m | INCREASING THE PRODUCTIVITY RATE OF SOLAR STILL FOR SEA WATER BY DIURNAL ENERGY STORAGE METHOD |
| | 10732 | Ragavanantham S, BalajiSudharson S, Keerthibaalan T | DESIGN AND DEVELOPMENT OF LOW COST DRAINAGE CLEANING PROPELLER |
| Industrial-2 | 10417 | ANAND KRISHNAN V K, Gopikumar v | A COMPARISON OF THE RETURN FORECASTING POWER OF DOMESTIC AND FOREIGN INSTITUTIONAL EQUITY INVESTORS: EVIDENCE FROM INDIA |
| | 10508 | Gopinath S, Sharan P, Muhammad Zishan P.R, Mithun Krishnan | INVESTIGATION OF GREEN SUPPLY CHAIN MANAGEMENT IN INDIAN SMES |
| | 10537 | Satheesh A | PRODUCTIVITY IMPROVEMENT FOR AN ENGINE ASSEMBLY LINE USING MAYNARD OPERATION SEQUENCE TECHNIQUE (MOST) |
| | 10539 | Mohammed Ashik, bhuvaneshpalani | LEAN IMPLEMENTATION IN SME(SMALL AND MEDIUM ENTERPRISES) |
| | 10677 | BathrinathSankaranar ayanan | THE ADVERSE HUMAN HEALTH EFFECTS DUE TO AMMONIA, HYDROGEN SULPHIDE AND CHLORINE IN PROCESS INDUSTRIES: A SURVEY |
| Automobile-3 | 10512 | ThirumalaiKannanka ndaswamy | EFFECT OF NANO-PARTICLES ON THE PERFORMANCE AND EMISSION OF AN ENGINE USING MODIFIED JOJOBA OIL AS BLEND IN SAE OIL |
| | 10535 | Kumaraswamy A, B Durga Prasad | PERFORMANCE EVALUATION OF FOUR STROKE CIDI ENGINE USING ALTERNATE FUEL ON DUAL FUEL MODE |
| | 10554 | Murugunachippan N, Venkatesh A.P, Muniyappan M, Manjithkumar Reddy | LIGHT WEIGHT COMPOSITE LEAF SPRINGS FOR AUTOMOTIVE APPLICATION |
| | 10699 | Premnath S, Ravindar Rao E, Vishnu K | OPTIMIZATION OF COMBUSTION CHAMBER ALONG WITH FUEL INJECTION SYSTEMS FOR SINGLE CYLINDER FOUR STROKE DIESEL ENGINE |



Dr. S. Ramesh Babu



Dr. M. Mohandass

Coordinator



Dr. S. RAMESH BABU, M.E., Ph.D
Professor & Head
Department of Mechanical Engineering
Sri Venkateswara College of Engineering
Pennalur, Sriperumbudur (TK) - 602117.
Tamilnadu, INDIA.

Dr. S. Ramesh Babu

Convener





Valedictory Report

The Valedictory function of the two-day international conference ICAMME 2018 was held on 5th May 2018 in Dr. A.C. Muthiah Central Library seminar hall at 2.30 P.m. DR. Alba Beana, Professor, Universidad Autonama de Ciudad Juarez, Mexico was the special guest for the valedictory function. The presidential address was delivered by Dr. S. Ganesh Vaidyanathan, Principal, SVCE. In his address he elaborated the importance of recycling ewaste and how eco-efficiency and Make in India are two relevant terms that are not just relevant to engineers but to mankind in general. He then said that in order to safe guard our environment it was the responsibility of each individual to think of ways to be eco-efficient in our daily lives. He also brought out the relationship between eco-efficiency and literacy and said that the two are interrelated as literate people are more concerned with being eco-efficient and contributing towards safe guarding nature.

Dr. Alba Beana began his valedictory address with high praise for the hospitality of the hosts and then did a recap of all the salient points from the speeches given by the various eminent speakers the past two days and said that if those points were deliberated on seriously and sincerely achieving eco-efficiency would not be distant dream but an achievable reality.

Dr. J. Venkatesan HoD/AE introduced the chief guest and the vote of thanks was delivered by Dr. S. Ramesh Babu, HoD/ME











Summary

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| Number of Abstracts Received | - 273 |
| Number of Abstracts Accepted | - 252 |
| Number of full Paper received | - 142 |
| Number of full Paper Accepted - with Journal Pub. | - 104 |
| Number of full Paper Accepted - without Journal Pub. | - 08 |
| Number of participants registered | - 112 |
| Number of participants made the presentation | - 102 |
| Number of candidates not attended the conference | - 10 |
| Number of participants registered as coauthors | - 35 |

Dr. S. Ramesh Babu

Dr. M. Mohandass

Coordinator

Dr. S. RAMESH BABU, M.E., Ph.D
Professor & Head
Department of Mechanical Engineering
Sri Venkateswara College of Engineering
Pennalur, Sriperumbudur (TK) - 602117.
Tamilnadu, INDIA.

Dr. S. Ramesh Babu

Convenor