

ACS COLLEGE OF ENGINEERING BENGALURU
International Conference on Sustainable Engineering and Technology (IconSet 2018)

Day : 1	Date : 19.04.2018	Session : Afternoon (1.30 pm to 4.00pm)	Venue : Seminar Hall 2
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Mechanical Science

Session Chair: Chair: Dr Deepal NIFS, Srilanka
Co_Chair: Dr Suresh PM, ACSCE
Co-Chair: Dr Venkateshbabu ACSCE (special invite)

Sl. No	Paper ID	Title	Corresponding Author	Co-authors
1.	90	Experimental Investigation of the Effects of Insulated Air Intake System on the Performance of Naturally Aspirated MPSEFI Spark Ignition Engine	Sanjay Chhalotre MANIT, Bhopal	Prashant Baredar and Sanjay Soni
2.	105	Demolished Brick Masonry as a Replacement of River Sand in Cement and Cement Lime Mortar	S M Basutkar RVCE,Bengaluru	<i>Rohit J Menon, P Srujhana, M V Renuka Devi</i>
3.	106	A Study on the Performance of the Random Rubble Stone Masonry	S M Basutkar RVCE,Bengaluru	<i>Padmashree H, M V Renukadevi, K S Jagadish</i>
4.	107	Influence of Compression Ratio on Diesel Engine Fueled with Dairy Scum Oil Methyl Ester	Manjunath N Channappagoudra UBDT CE, Davangere	K. Ramesh, Manavendra.G
5.	109	Diagonal tensile strength of Brick Masonry Using NFRP	Vinay G N RVCE, Bengaluru	K Madhavi M V Renukadevi Somanath M Basutkar
6.	110	Solar Energy Application on Methanol Production and Purification—A Concise Review	Sankha Chakrabortty CSIR-CMERI Durgapur	Biswajit Ruj, Parimal Pal
7.	111	Investigation of Micro Hardness of the Welded Region of AL 5052 Using M2 Tool using Friction Stir Welding	Ramesh Chandra Panda Lingayas University, Faridabad	Gurprit Singh, Mr. Kamlesh Kumar Singh, Rajesh Kumar
8.	112	Impact on Building AC Load with respect to the Elevation (Floor Number) in High Rise Buildings due to Urban Heat Island (UHI) Effect and Heat Column Formation	Madhusanka, C.K.I., University of Moratuwa, Sri Lanka	Ranatunga, R. G. S. M, Thilakarathne, E. G. D. R, Ranasinghe, R. A. C. P.. and Wijewardane, M. A.
9.	115	Experimental Investigation of Domestic Refrigeration with Helical Coil Tube Condenser	Sanjaykumar A. Borikar Shri Ramdeobaba College of Engineering and Management, Nagpur	Mahendra M. Gupta

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Day : 1	Date : 19.04.2018	Session : Afternoon (1.30pm to 4.00 pm)	Venue : Seminar Hall 1
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Session Chair: Dr Sanka Reddy , RRCE, Bengaluru
Co-Chair: Prof. Elanagovan, ACSCE (special invite)
Co_Chair: Dr Mohanraj, RRCE

Sl. No	Paper ID	Title	Corresponding Author	Co-authors
10.	116	Review on Performance and Energy Efficiency Improvement in Domestic Refrigerators	Sanjaykumar A. Borikar Shri Ramdeobaba College of Engineering and Management, Nagpur	Mahendra M. Gupta
11.	191	Performance Evaluation Of A Solar-Aided Liquid Desiccant Evaporative Cooling System	Sneha Reddy Manipal Univesity, Manipal	S.Shanmuga Priya, S.Harish Kumar
12.	209	Social and Environmental Impact of Nuclear Power Plant: A Case Study of Kaiga Generating Station in Karwar, Karnataka, India	Suresh D Mane Girijabai Sail Institute of Technology, Karwar,	Rahul Shanbag and Pramod Madival
13.	210	Synthesis of metal catalyst carbon nanotubes by arc-discharge method used for energy efficient applications	M.S. Senthil Saravanan Sree Buddha College of Engineering, Alappuzha,	Shiva Rama Krishna Singh, K. Sivaprasad, S.P. Kumaresh Babu, J. B. Sajin, T. Nagaraj, Sreejith Mohan
14.	211	A Comparative study between 1-d & 2-d nuclear fuel element cooled in a surrounding fluid medium.	Abdul Razak RK P.A. College of Engineering Mangalore	Asif Afzal, Mohammed Samee AD, Ramis MK
15.	212	An Innovative Approach towards Sustainable Energy in Rural Bangladesh	Shahana Afrose Chowdhury KaziShahid Foundation Dhaka, Bangladesh	--
16.	213	An Experimental Investigation On Hypo Sludge Bricks	Dasarathy A K VEL TECH, Chennai	C. Suresh, M .Tamilselvi, S. Kumar
17.	214	Wear resistance investigation of TiN and H-DLC coated AISI 5140 steel in dry sliding wear condition	E.R.Sivakumar MIT, Chennai	P. Senthilkumar
18.	215	Effect of capillarity tube geometry on vapour compression refrigerator performance.	T.M.Chandrashekharaiiah Kalpaturu IT, Tiptur	Basavaraj Ganiger, Manjunath Channappagodra, Sanjay H.M, Deepak Kumar N Y
19.	216	Investigation on effect of H-DLC and TiN coated	E.R.Sivakumar	P. Senthilkumar

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		inlet and exhaust valve on performance, emission and combustion characteristics of a diesel engine	MIT, Chennai	
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Day : 2	Date : 20.04.2018	Session : Afternoon (9.00am to 12.30 pm)	Venue : Seminar Hall 1
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Chair: Dr M Karthikeyan, RRCE, Bengaluru
Co-Chair: Dr Siddesha, ACSCE, Bengaluru
Co-Chair: Sanjeev Gadad, ACSCE, Bengaluru

Sl. No	Paper ID	Title	Corresponding Author	Co-authors
20.	217	Experimental Investigation on Physical and Thermal Properties of Graphite Nanofluids	Yashawantha K M Srinivas Institute of Tech., Mangalore	Asif Afzal, Ramis M K, Shareef Raza
21.	218	Effect of 5 hole nozzle and re-entrant toroidal piston bowl geometry on dairy scum biodiesel operated diesel engine	Manjunath Channappagoudra UBDT Davangere	K. Ramesh, Manavendra.G
22.	219	Thermodynamic Economic and Environmental Analyses of Full Site Repowering through Coal Gasification and Carbon Capture by Downstream MCFC Integration	Samiran Samanta KIITS, Bhuvanewar	Sudip Ghosh
23.	220	A Review on Piezoelectric Energy Harvesting System using Vortex Induced Vibration	Neha Yadav MANIT Bhopal	Prashant Baredar
24.	221	Experimental Study of Diesel Engine using Cashew Nut Shell Oil (CNSO) with Varying Injection Pressures	Ashok Kumar Dr MGR University Chennai	K. Rajan, M. Rajaram Naraynan, K.R. Senthil Kumar
25.	223	Numerical Analysis Of Heat Transfer Characteristics With Triangular Cut Twisted Tape Inserts	K.Sivakumar Bharath University Chennai	T.Mohankumar and K.Rajan
26.	224	Development of bio-resin from organic waste and its application to make high strength composites	Sumedha Bhat RVCE, Bengaluru	Snehil Kumar B, Vinutha Moses, Akshay C. B, Rishil Rai
27.	225	A Real-time Traffic Congestion-Avoidance Framework for Smarter Cities	R. S. Saundharya Thejaswini MSRSAS Bengaluru	S. Rajaraajeswari
28.	226	Thermal Analysis of Solar Desalination System Using Evacuated Tube Collector	S.A.Kedar KLE University Guntur	K.Arul Raj and A.K.Bewoor

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Day : 2	Date : 20.04.2018	Session : Afternoon (9.00am to 12.30 pm)	Venue : Seminar Hall 2
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Chairperson: Dr Govarthanasamy, RRCE
Co-Chair: Dr R Sivasubramaniam, ACSCE
Co-Chair Dr MohanRaj, RRCE (Special invitee)

Sl. No	Paper ID	Title	Corresponding Author	Co-authors
29.	227	Effect and Influence of Fly ash and GGBS on Properties of Ambient Cured Self-Compacting Geopolymer Concrete for In situ Applications.”	Nagaraj. V. K. ACSCE Bengaluru	D. L. Venkatesh Babu
30.	228	The CFD analysis of Flat Plate Collector-Nanofluid as Working Medium	Yathin Krishnata P.A College of Engg, Mangalore	Abdul Razak.R.K and Asif Afzali
31.	229	Numerical Simulation of Tall Buildings with Various Shape Factors and Investigation of Its Surrounding Effect	S A Prabhakaran VIT, Vellore	J Adhithya, G Vinayagamurthy, A Senthilnathan
32.	230	Solid State Fault Current Limiter (SSFCL) in Power System-A case study	Ananda M. H ACSCE, Bengaluru	M.R. Shivakumar and R.S. Shivakumar Aradhya
33.	231	Fabrication of Solar Assisted (Compressor less) Thermoelectric Refrigerator	Bollepelly Manichandra SREC, Warangal	Aruri Devaraju
34.	232	An Experimental Investigation Of Indigenous Parabolic Solar Cooker With Different Receivers In Different Climatic Conditions	K. Mallikarjuna, G Pullaiah College, Karnool	N. GovindaRao ,K. HemachandraReddy, K. Sathish Babu
35.	233	Effects of Partial replacement of cement with Hypo sludge in Concrete	M.Tamilselvit VEL TECH, Chennai	A.K.Dasarathy and S.Ponkumar Ilango
36.	234	Green And Sustainable Building Practices For Museums	Sharanya B K BMSCE, Bengaluru	Sreejita Ghosh, Sujan Singh Bhandari, Suman Poudel, Girish Murali Padikkal, M.C. Sampath Kumar
37.	235	Use of Solar Energy for Charging Mobile Battery and Smart Traffic Control System - A Pilot Study	Snehalatha Bharthit BMSCE, Bengaluru	M C Sampathkumar
38.	236	Numerical Study of Melting and its Effect on a Heat	Sumer B. Dirbude,	Dnyaneshwar S. Shelke

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	Transfer in a Concentric PCM-Module	NIT Delhi	
Day : 2	Date : 20.04.2018	Session : Afternoon (1.30pm to 4.00 pm)	Venue : Seminar Hall 1

Session Chair: Chair: Dr Deepal NIFS, Srilanka
Co_Chair: Dr Sivasubramniam, ACSCE
Co-Chair: Dr Venkateshbabu ACSCE (special invite)

Sl. No	Paper ID	Title	Corresponding Author	Co-authors
39.	237	Nanotechnology-As Antibacterial And Heavy Metal Removal In Waste Water Treatment-A Review	Sudeep M RVCE, Bengaluru	Vinutha Moses
40.	238	Effect Of Environmental Friendly Filler On Thermal Properties Of Areca Phenolic Resin Composites	Ravi Kumar B N JNNCE, Shivamoga	R. Shankara Reddy
41.	239	An Experimental Study on Removal of Heavy Metals Using Low Cost Adsorbents (Pilot Study)"	Deepak B.Sajjanar BMSCE, Bengaluru	M C Sampath Kumar
42.	240	Prediction of Optimum Parameters and Product Gas Composition in Gasification Using ANNs	G Suresh Kumar ICFAI Hyderabad	AVSSKS Gupta and M Viswanadham
43.	241	Modelling of Environmental Parameters in Industrial Suburb	Swetha.R BMSCE,Bengaluru	M C Sampath Kumar
44.	242	Design and Development of Solar Panel Tracking Mechanism	Nagaraja T.K. JSSATE Bengaluru	Prashanth
45.	243	Application of Nanotechnology for the Rejuvenation of Varthur Lake water (Initial Study)	Manaswini M M BMSCE,Bengaluru	Nishal Sharon, Pranav S, Rishab Jain, Ashwin Zachariah, M C Sampathkumar
46.	244	Reducing the Drag Resistance of Automotive Cars by Diminishing the Wake Separation zone	Babin T KCT, Coimbatore	Sangeetha N and Sudalaiyandi Durgesh
47.	245	Risk Factors Involved In Green Supply Chain Management: A Review	Jagannath Reddy RLJIT Bengaluru	M.Sreenivasa Reddy
48.	246	Development and optimization of novel heterogeneous catalysts for <i>in situ</i> transesterification of vegetable oils into biodiesel.	Kabiru Bello Umaru Ali Shinkafi Polytechnic, Sokoto State, NIGERIA	

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Day : 2	Date : 20.04.2018	Session : Afternoon (9.30am to 12.30 pm)	Venue : Seminar Hall 3
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Chair: Dr Balachandran, Christ University, Bengaluru

Co-Chair: Dr Usha S, RRCE, Bengaluru

Co-Chair: Dr L Rangaiah, RRCE, Bengaluru (special invitee)

Sl. No	Paper ID	Title	Corresponding Author	Co-authors
49.	247	Recent Progress on Multilevel Inverters and its Applications	Sreelakshmi Sanka EEE, JNTUA, Ananthapur, Andhra Pradesh, India.	M. S. Sujatha
50.	222	An Exploration Of Customer Churn Prediction Models Of Telecommunication Orbit	Swetha P RRCE, Bengaluru	Usha S
51.	99	A Smart Phone based Information Sharing System in Precision Agriculture	Vandana B RRCE, Bengaluru	S Sathish Kumar
52.	248	A Review & Replacement of a Synthesized Particulate Reinforced MMC by Natural Particulate Reinforced MMC	Rajnish R Dubey Sri Sairam College of Engineering	Ranjith Kumar R, Anil Kumar C, Y Vijaya Kumar
53.	249	Synthesis and Mechanical Characterization of Nano B4C Particulates Reinforced Al7475 alloy Composite	Chandrasekhar G L VTU Research Resource Centre	Y.Vijayakumar, Madeva NagaraI, Hariprasad
54.	250	Performance and Emission Characteristic of CI Engine using Preheated Simarouba Bio Diesel Blends	Murali AS, GMIT, Davangere	Rajkumar DG and Sagar HT
55.	290	Comparative CFD analysis on Heat Transfer Co-efficient of Circular and Non Circular Duct	Manjunath TG, GAT, Blore	Gurumurthy K M and M Eswaramoorthy
56.	281	Numerical Simulation Of Flow Over An Autonomous Under Water Vehicle With Appendages For Various Turbulence Models	A Muthuvel Sri Sairam College of Engineering,	Monissh Babu K, Purandarraj S Darshan NK
57	283	Finite Element Analysis on Thermal Performance of Thermal Barrier Coatings	Mahadeva Prasad L	Savitha D C, and M Eshwaramoorthy

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58	285	Synthesis and Characterization of Graphene oxide for the application of Transparent thin film and UV Shielding	Fozia Z. Haque MANIT Bhopal	Kajol Taiwade, Rupika S. Tomar, Jyoti Bamne, Pragya Ojha and
59	286	Effect of calcination temperature on the growth of TiO ₂ nanoparticle prepared via sol-gel method using Triton X-100 as Surfactant.	Fozia Z. Haque MANIT Bhopal	Jyoti Bamnel, Kajol Taiwade, P. K. Sharma
60	287	Synthesis of Heterojunction layers of Graphene/MoS ₂ and its characterization.	Fozia Z. Haque MANIT Bhopal	Rupika Singh Tomar, Kajol taiwade, Javid Ali, Samina Khan
61	289	Parametric study on the impact of delamination on flutter velocity of wind turbine blade structure.	H. S. Sunil Kumar	R. B. Anand
62	258	An Energy Efficient Broadcasting in Mobile WSN	T.Senthil Kumaran	Mahantesh Mathapathi, A Krishna Kumar
63	260	High Gain Patch Antenna using Electromagnetic Band Gap Structures for Wi MAX Application	Bhuvaneswari.H.B	Shambulingappa K.V
64	261	Arduino Energy Consumption Sensing System with Lab VIEW User Interface	Madhumita Bose	Kalyan Ram B, H. B. Bhuvaneswari and C.B. Mohan