

WARANGAL, TELANGANA, INDIA - 506004

1st International Conference

Applied Mechanical Engineering Research (ICAMER2019)

2nd - 4th May 2019



DAY -1 (02 May 2019, Thursday)

				11:00 AM – 11:45AM	11:45 AM – 12:30 PM	12:30 PM – 1:15 PM		2:00PM -2:45 PM	2:45 PM -4:00 PM		4:15 PM – 5:45 PM
				Key note-1	Key note-2	Key note-3		Key note-4	7	echnical S	Session-1
				Venue: Bose Hall	Venue: Bose Hall	Venue: Bose Hall		Venue: Bose Hall			
				Speaker:	Speaker:	Speaker:		Speaker:	Track-1 (5 Papers)		Track-1 (6 Papers)
ırsday)		_	Σ	Dr. G Padmanabham	Prof. C S P Rao	Prof. P N Rao		Dr. P S Lee	Track-2 (5 Papers)	_	Track-2(6 Papers)
Irso	Σ	Session 10:30AM)	⋖	Director, ARCI	Director, NIT Andhra	University of	Σ	NUS, Singapore	Track-3 (5 Papers)	PM	Track-3 (6 Papers)
면	0 A	sior 304	00:	Topic:	Topic:	Northern Iowa, USA	Ь	Topic:	Track-4 (5 Papers)	15	Track-4 (6 Papers)
)	n 9:30	Ses: 10:	-11	Additive Manufacturing:	Recent Developments in	Topic:	eak -2:00	High Efficiency		.4	
2019	atio 	_ 1	ea Z	Challenges and	Matrix Composites	Titanium Machining -		Thermal	Total (20 Papers)	¥ ₹	Total (24 Papers)
y-1 05.2	stra AM	augura 30 AM	⊢⋖	Perspectives		Sustainability	ch B PM	Management		Bre 0 Pľ	
Day- 02.0	egi: 30	Inau 9:30	ligh 0:30				unc 15	Technologies		Tea l (4:00	
٥	R (8:	ır (9:	Hi (10)				Lı (1:			<u> </u>	

Inaugural: Dr. B R Ambedkar Learning Centre, NIT Warangal

Technical Sessions: Seminar Hall Complex, NIT Warangal

Track -1 (Thermal)	Track -1 (Thermal)		Track -2 (Design)			Track -4 (Industrial/Production)	
Venue : Homi Bhabha	Hall	Venue : Bose Hall		Venue : Ramanujan Hall		Venue : Raman Hall	
Technical Sesssion-1	Technical Sesssion-1	Technical Sesssion-1	Technical Sesssion-1				
(2:45 PM -4:00 PM)	(4:15 PM – 5:45 PM)	(2:45 PM -4:00 PM)	(4:15 PM – 5:45 PM)	(2:45 PM -4:00 PM)	(4:15 PM – 5:45 PM)	(2:45 PM -4:00 PM)	(4:15 PM – 5:45 PM)
ICT - 035	ICT - 043	ICD - 036	ICD - 069	ICP - 001	ICP - 012	ICI- 001	ICP - 058
ICT - 046	ICT - 073	ICD - 052	ICD - 004	ICP - 011	ICP - 034	ICI - 003	ICP - 108
ICT - 018	ICT - 076	ICD - 066	ICD - 028	ICP - 036	ICP - 064	ICI – 008	ICP - 083
ICT - 031	ICT - 060	ICD - 070	ICD - 030	ICP - 057	ICP - 079	ICI - 009	ICP - 110
ICT - 034	ICT - 032	ICD - 067	ICD - 039	ICP - 068	ICP - 109	ICI - 013	ICP - 035
	ICT - 064		ICD - 071		ICP - 106		ICP - 085



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DAY -2 (03 May 2019, Friday)



	9:00 AM – 9:40AM	9:45 AM -10:30 AM		11:00 AM – 1:00PM		2:00 PM-2:45 PM	2:45 PM -3:45PM		4:00 PM -5:45 PM
	Key note-5	Key note-6		Technical		Key note-7	Te	echnical :	Session-3
	Venue: Bose Hall	Venue: Bose Hall		Session-2		Venue: Bose Hall			
	Speaker:	Speaker:		Track-1 (8 Papers)		Speaker:	Track-1 (4 Papers)		Track-1 (7 Papers)
\sim	Shri. N V Marathe	D.Uma Maheshwar		Track-2 (8 Papers)		Dr. Sachin Singh Gautam	Track-2 (4 Papers)		Track-2 (7 Papers)
day)	ARAI, Pune	GE Aviation-India	Ŝ	Track-3 (8 Papers)		IIT Guwahati	Track-3 (4 Papers)	Σ	Track-3 (7 Papers)
(Fri	Topic: Advances in	Topic:	¥	Track-4 (8 Papers)	M	Topic:	Track-4 (4 Papers)	90	Track-4 (7 Papers)
D 6	Power train development	Digital Transformation	00:		ak ::00 I	Gecko Spatula		4:0	
201	to meet future	in Engineering	ak 11:	Total (32 Papers)	rea -2:(Peeling – Numerical	Total (16 Papers)	eak ™ –	Total (28 Papers)
5.2	performance demands		ñЧ		B ر	Findings Using		~ ~	
Day-2 03.05.2			ea B 10:3(ınch 10PN	Nonlinear Finite		a B :45	
D 03			Теа (10)		Lu (1:0	Element Based Study		Теа (3:4	

Technical Sessions: Seminar Hall Complex, NIT Warangal

Track -1 (The	rmal)		Track -2 (Design)			Track -3 (Production)			Track -4 (Thermal/Production)		
Venue : Homi	Bhabha Hall		Venue : Bose Hall			Venue : Ramanujan Hall			Venue : Raman Hall		
Technical	Technical	Technical	Technical	Technical	Technical	Technical	Technical	Technical	Technical	Technical	Technical
Sesssion-2	Sesssion-3	Sesssion-3	Sesssion-2	Sesssion-3	Sesssion-3	Sesssion-2	Sesssion-3	Sesssion-3	Sesssion-2	Sesssion-3	Sesssion-3
(9:45 AM –	(2:45 PM –	(4:00 PM -	(9:45 AM –	(2:45 PM –	(4:00 PM -	(9:45 AM –	(2:45 PM –	(4:00 PM -	(9:45 AM –	(2:45 PM -	(4:00 PM -
10:30 AM)	3:45PM)	5:45 PM)	10:30 AM)	3:45PM)	5:45 PM)	10:30 AM)	3:45PM)	5:45 PM)	10:30 AM)	3:45PM)	5:45 PM)
ICT - 004	ICT -016	ICT - 003	ICD - 002	ICD - 009	ICD - 063	ICP - 010	ICP - 080	ICP - 005	ICT - 079	ICP - 002	ICI - 007
ICT - 011	ICT - 005	ICT - 024	ICD - 008	ICD - 011	ICD - 065	ICP - 013	ICP - 009	ICP - 045	ICT - 009	ICP - 008	ICP - 093
ICT - 026	ICT - 008	ICT - 030	ICD - 016	ICD - 033	ICD - 019	ICP - 022	ICP - 037	ICP - 095	ICT - 015	ICP - 094	ICP - 107
ICT – 033	ICT - 010	ICT - 080	ICD - 037	ICD - 040	ICD - 073	ICP - 030	ICP - 046	ICP - 048	ICT - 048	ICP - 029	ICP - 014
ICT - 040		ICT - 041	ICD - 043		ICD - 023	ICP - 082		ICP - 053	ICT - 078		ICP - 071
ICT - 045		ICT - 051	ICD - 044		ICD - 075	ICP - 099		ICP - 077	ICT - 061		ICP - 092
ICT -057		ICT - 053	ICD - 047		ICD - 017	ICP - 026		ICD - 074	ICT - 083		ICD - 076
ICT - 072			ICD - 068			ICP - 047			ICT - 085		



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DAY -3 (04 May 2019, Saturday)

	9:30 AM – 11:45AM		12:00 AM – 12:40PM			
Day-3 04.05.2019 (Saturday)	Technical Session-4 Track-1 (9) Track-2 (9) Track-3(9) Track-4 (9) Total (36)	Tea Break (11:45AM – 12:00 AM)	Key note-8 Venue: Bose Hall Speaker: Topic:	Valedictory (12:45 PM -1:30 PM)	Lunch Break (1:30 PM –2:30 PM)	Local Tour (2:30 PM – 5:30 PM)

Technical Sessions: Seminar Hall Complex, NIT Warangal

Track -1 (Thermal)	Track -2 (Design)	Track -3 (Production)	Track -4 (Production)
Venue : Homi Bhabha Hall	Venue : Bose Hall	Venue : Ramanujan Hall	Venue : Raman Hall
Technical Sesssion-4	Technical Sesssion-4	Technical Sesssion-4	Technical Sesssion-4
(9:30 AM – 11:45AM)	(9:30 AM – 11:45AM)	(9:30 AM – 11:45AM)	(9:30 AM – 11:45AM)
ICT - 082	ICD - 005	ICP - 006	ICP - 096
ICT - 006	ICD - 006	ICP - 102	ICP - 065
ICT - 054	ICD - 045	ICP - 031	ICP - 075
ICT - 056	ICD - 048	ICP - 070	ICP - 084
ICT - 062	ICD - 051	ICP - 076	ICP - 044
ICT - 067	ICD – 062	ICP - 087	ICP - 054
ICT - 071	ICD - 021	ICP - 024	ICP - 056
ICT - 075	ICD - 072	ICD - 077	ICP - 063
ICT - 001	ICD - 026	ICD - 078	ICP - 033
	ICD - 061		

		Paper ID	Paper Title	Authors	Affiliation	
	Technical Session -1	ICT - 035	Experimental study on the performance of Micro Aerial Vehicle propeller	Dr.Premkumar PS ¹ , Sureshmohan M ² , Siyuly K ¹ , VasanthakumarS ¹ , Naveen Kumar R, DenielaGreneS ¹ , Sanjaykumar S ¹	¹ Department of Aeronautical Engineering, Kumaraguru College of Technology, Coimbatore, India. ² Graduate engineer trainee, Altran Technologies, India	
Thursday)	Technic: HomiBhabha Hall	ICT - 046	CFD Analysis in the Design of Diffuser for Air Cooling of Low Concentrated Photovoltaic/Thermal (LCPV/T) Solar Collector	Rohit Meshram P.D.Sawarkar	Department of Mechanical Engineering, Visvesvaraya National Instituteof Technology, Nagpur-440010, Maharashtra, India	00 PM)
02 nd May 2019 (Thursday)	e e	ICT - 018	Surface Pressure Characteristics over Indian Train Engine	K. Vivek, B. Ashok Kumar, KarthickDhileep, S. Arunvinthan, S. Nadaraja Pillai	Turbulence and Flow Control Laboratory, SASTRA Deemed University, Thanjavur – 613 401, Tamil Nadu, India	(2:45 PM –4:00 PM)
0	Track -1 (Thermal) Veni	ICT - 031	Optimal selection of insulating material for energy conservation in steam pipe using Analytical Hierarchy Process	M.Siva Subrahmanyam ¹ ', Aparna Devi ² , B.Jagadeesh ³	¹ Department of Mechanical Engineering, MVGR College of Engineering (A), Vizianagaram 535005, AP,India, ² Industrial Engineering, GITAM, Visakhapatnam 530045, AP,India	
		ICT - 034	Alternate Heating process in ESP Hoppers of Thermal Power plant – an Experimental pilot Investigation	Dr.R.Saravanan, Dr.Ramakotaiah Maadumala	Department of Mechanical Engineering, Ellenki College of Engineering and Technology, Hyderabad -502319, Telangana State, India	

		Paper ID	Paper Title	Authors	Affiliation	
)		ICD - 036	Synthesis and characterization of nanogrease for automotive wheel bearing application	Pankaj S. Ghatage, Abhijeet P. ShahDhananjayKumbhar	Rajarambapu Institute of Technology, Islampur, Affiliated to Shivaji University, Kolhapur, Maharashtra, India	
	Track -2 (Design) Technical Session -1 Venue : Bose Hall	ICD - 052	Design and kinematics of a Coal Bunker scraper guide - mechanism	Bijoy Ramakrishnan, Alex Sherjy Syriac, Chetan Chaudhari, Aditya Shah, S.S.Chiddarwar	Dept. of Mechanical Engineering, Visvesvaraya National Institute of Technology, Nagpur, Maharashtra, India - 440010	
02 nd May 2019 (Thursday)		ICD - 066	Application of single sided NMR and Acousto-Ultrasonic methods for NDE of composite structures	S K Sahooa, ^b , R N Rao ^a , Srinivas Kuchipudi ^b , M K Buragohain ^b	^a Department of Mechanical Engineering, National Institute of Technology, Warangal, Telangana, India-506004. ^b Advanced Systems Laboratory, DRDO, Kanchanbagh PO, Hyderabad, India – 500058.	(2:45 PM -4:00 PM)
	Track	ICD - 070	Comparative study of modal analysis of flight vehicle using different joint rotation constant values	R Santhanam, Dr. P C Jain, Y Krishna ¹ , PSR Anjaneyulu ¹	Defence Research and Development Laboratory, Hyderabad, India, 500058	
		ICD - 067	Effect of Material Damping on the Vibration Response of Cantilever Beams in Dynamic Environment	L. Viswanadhama ^b , R. N. Rao ^a , Ch. Sri Chaitanya ^a	^a Department of Mechanical Engineering, National Institute of Technology, Warangal, Telangana, India-506004. ^b Research Centre Imarat (RCI-DRDO), Vignankancha, Hyderabad, India – 500069.	

		Paper ID	Paper Title	Authors	Affiliation	
		ICP - 001	Performance and life cycle analysis of soybean oil based minimum quantity lubrication in machining of Ti6Al4V	R.R.Srikant, P.N.Rao	Department of Technology, University of Northern Iowa, Cedar Falls, IA, USA. 50614	
	Technical Session -1	ICP - 011	Experimental and Microstructural Analysis of TIG and MIG Welding on Dissimilar Steels	Aravind Reddy ¹ , Abu Sufyan Malik ²	¹ Vasavi College of Engineering, Hyderabad 500031, India ² Mahaveer Institute of Science & Technology, Hyderabad 500005, India	
02 nd May 2019 (Thursday)	:nue : Ramanujan Hall	ICP - 036	Multi-response optimization of process parameters in Turn-milling processes- An experimental approach	Arun Vikram. K ¹ , Ratnam.C ² , VVK.Lakshmi ¹ RDV.Prasad ³	¹ Department of Industrial Engineering, GITAM Institute of Technology, Vizag, Andhra Pradesh, India ² Department of Mechanical Engineering, AU College of Engineering (A), Vizag, Andhra Pradesh, India ³ Department of Mechanical Engineering, ANITS Engineering College, Vizag, Andhra Pradesh, India	(2:45 PM –4:00 PM)
	Track -3 (Production)	ICP – 057	Experimental Investigation on Friction Stir Welding of HDPE reinforced with SiC and Al and Taguchi Based Optimization	S. Ramesh Babu ¹ , Dr. S.R.K. Hudgikar ² Y.Poornachandra Sekhar ³	¹ VTU Belagavi Karnataka, India- 590018 ² Lingaraj Appa Engineering College, Bidar, Karnataka, India- 585403 ³ AITS, Rajampeta, India-516126.	
		ICP - 068	Analysis of micro cracks and micro hardness in white layer formation on machined surfaces in EDM process	K Leela kumar ¹ , ChSrinivasa Rao ² , B Sateesh ¹	¹ Department of Mechanical Engineering, Vignan's IIT(A), Visakhapatnam-530049, India ² Department of Mechanical Engineering, AUCE, Andhra University, Visakhapatnam-530003, India	

		Paper ID	Paper Title	Authors	Affiliation	
		ICI- 001	Design and Ergonomic Work Posture Evaluation of Garbage Disposal Pushcart	P Jayesh, Gopala Krishna A, Abhay Mohan Sheikh Afridhi	MVJ College of Engineering, Bangalore, India.	
	1	ICI – 003	Service Quality Measurement in Health Care Sectors – A Case Study	P.S.Prema Kumar ¹ Dr.G.Rambabu ²	¹ KoneruLakshmaiah Education Foundation, Vaddeswaram, 522501, AP, India ² Andhra University College of Engineering, Visakhapatnam, 530003, AP, India	
02 nd May 2019 (Thursday)	roduction) Technical Session -1 Venue : Raman Hall	ICI - 008	Analysis and optimization of queuing systems in airports – Discrete event simulation	RishabhJain ^a , Hrishikesh Bedekar ^b , Jayakrishna K ^c , Vimal K E K ^d , Vijay Manupati ^e	a School of Mechanical Engineering, Vellore Institute Technology, Vellore – 632014, India b School of Mechanical Engineering, Vellore Institute Technology, Vellore – 632014, India c School of Mechanical Engineering, Vellore Institute Technology, Vellore – 632014, India d Department of Mechanical Engineering, NIT Patna, Bihar – 800005, India e Department of Mechanical Engineering, NIT Warangal, Telangana – 506004, India	(2:45 PM –4:00 PM)
	Track -4 (Industrial/Production)	ICI - 009	Conceptual framework for performance measurement of hospital supply chain management	Dr. Pranav G. Charkha ¹ Dr. Santosh B. Jaju ²	¹ Department of Mechanical Engineering, Datta Meghe Institute of Engineering, Technology & Research, Wardha, Maharashtra, India ² Department of Mechanical Engineering, G. H. Raisoni College of Engineering, Nagpur, India, Maharashtra	
		ICI - 013	An Extensive Study of multi level inventory lot sizing optimization problem	V.V.D.Sahithi ¹ , C.S.P.Rao ² , M. Srinivasa Rao ³	¹ Mechanical Engineering Department, VNRVJIET, Hyderabad -500090, Telangana,India ² NIT Andhra Pradesh, Tadepalligudem – 534102, Andhra Pradesh,India ³ JNTU Hyderabad, Hyderabad -500090, Telangana,India	

		Paper ID	Paper Title	Authors	Affiliation	
	sion -1	ICT - 043	Experimental investigation on the effect of particle concentration and temperature on thermophysical properties of water based metal oxide nanofluids	Ramesh BabuBejjam ^a , K. Kiran Kumar ^b ,Venkata Sai Sudheer ^b , N. PraveenaDevi ^c	^o SASI Institute of Technology & Engineering, Tadepalligudem, West Godavari, Andhra Pradesh, 534101, India ^b National Institute of Technology Warangal, Warangal, Telangana, 506 004, India ^c SR Engineering College, Warangal, Telangana, 506 004, India	
	Technical Session -1	ICT - 073	Thermal Design Methodology for Regenerative Fuel-Cooled Scramjet Engine Walls	G. Vijayakumar	Defence Research and Development Laboratory, Hyderabad 500058, India	
		ICT - 076	Thermal Design and Testing of External Protuberance of Hypersonic Carrier Vehicle Airframe	G. Vijayakumar, S. Narendar, J. Justina Geetha	Defence Research and Development Laboratory, Hyderabad, India 500058	
02 nd May 2019 (Thursday)	ack -1 (Thermal) Venue :HomiBhabha Hall	ICT - 060	Numerical analysis of heat transfer and pressure drop characteristics for the plate- fin and tube heat exchanger	P.V.Durga Prasad ^a , R.Venkateswar Rao ^b , M.Sreeramul ^c	^a Mechanical Engineering, M.V.S.R.Engineering College, Hyderabad 501510,Telangana,India ^b Mechanical Engineering, Vignana Bharathi Engineering College, Hyderabad 501510, Telangana, India ^c Mechanical Engineering, Hyderabad Institute of Science & Technology, Hyderabad 510510, India	(4:15 PM – 5:45 PM)
	Track	ICT - 032	Heat transfer enhancement using overlapped dual twisted tape inserts with nanofluids	Rokkala Rudrabhiramu ¹ , K.Harish Kumar ² , Dr.K.Kiran Kumar ³ , Dr.K.Mallikarjuna Rao ⁴	1,2 Vignan's Institute of Information Technology, Visakhapatnam, Andhra Pradesh, India. 3 National Institute of Technology, Warangal, Telangana, India 4 Jawaharlal Nehru Technological University, Kakinada, Andhra Pradesh, India	
		ICT - 064	Numerical study of Hydrogen- Fueled Scramjet performance with passive Techniques	Obula Reddy Kummitha ¹ , K.M.Pandey ² Rajat Gupta ²	¹ BVRIT, Narsapur – 502313, Telangana, India ² NIT Silchar, Silchar-788010, Assam, India	

		Paper ID	Paper Title	Authors	Affiliation	
	1	ICD - 069	Coupled analysis of Underwater System by Numerical Approach	Dr. V. Rama Krishna ¹ , B. Ajay Kumar ² , Dr. O. R. Nandagopan ¹ , Dr. N. Ravi kumar ² , U. Urban Kumar ¹	¹ Naval Science and Technological Laboratory, Visakhapatnam, India ² Department of Mechanical Engineering, VRSEC, Vijayawada,	
02 nd May 2019 (Thursday)	Technical Session -1	ICD - 004	Dynamic Performance Analysis of a Four Ton Automobile Chassis	P.Sowmya, K.Karthik Rajashekar, M.Madhavi, P.A.Sastry	Mechanical Engineering, MVSR Engineering College, Hyderabad 501510, Telangana, India	
	Tecl	ICD - 028	Pre-strain in Dielectric Elastomer Actuator; Challenges towards Structure-Property Relationship	Dhananjay Sahu ¹ , Om Prakash Prabhakar ¹ , Raj Kumar Sahu ¹ , Karali Patra ²	¹ Department of Mechanical Engineering, National Institute of Technology, Raipur, India ² Department of Mechanical Engineering, Indian Institute of Technology, Patna, India	(4:15 PM – 5:45 PM)
02 nd N	Track -2 (Design)	ICD - 030	Modified Electromechanical Model forDielectric Elastomer Cylindrical Actuators	Om Prakash Prabhakar, Dhananjay Sahu, Raj Kumar Sahu	Department of Mechanical Engineering, National Institute of Technology, Raipur, India	(4:
	Track	ICD - 039	Low Cost Test Rig for Demonstrating Single Plane Balancing Using Vibrations	N. V. S. Shankar ¹ , K. V. Jitendra ¹ , Dr. H. Ravi Shankar ² and M. Manikumar ¹	¹ Department of Mechanical Engineering, Swarnandhra College of Engineering and Technology, Seetharampuram – 534280 ² Department of Mechanical Engineering, GITAM University, Visakhapatnam – 530045,	
		ICD - 071	Design and Analysis on Reinforced Carbon-Basaltfibres composite laminate	S. Nagarjuna Reddy, M. TrivikramaSankar	Department of Mechanical Engineering, BVRIT,Narsapur- 502313,Telangana,India	

_	111001		Paper ID	Paper Title	Authors	Affiliation	1y 2017
			ICP - 012	Thermal management of avionic packages using microblower	K. Velmurugan ^a , Dr.Chandramohan V P ^b , Dr. S. Karunanidhi ^a , D. Sai Phaneendra ^a	^a RCI, DRDO ^b NIT, Warangal	
		Technical Session -1	ICP - 034	Mathematical Modelling of Material Removal Rate using Buckingham Pi Theorem in Electrical Discharge Machining of Hastelloy C276	P.Ravindranatha Reddy ¹ , G.Jayachandra Reddy ² , G.Prasanthi ³	¹ Faculty of Mechanical Engineering, JNTUA, Ananthapuramu-515002, A.P., India. ² Department of Mech. Engg., YSR Engineering College of YVU, Proddatur-516360, A.P., India. ³ Department of Mech. Engg., JNTUA College of Engineering, Anantharuramu-515002, A.P., India.	
	02 nd May 2019 (Thursday)) Venue : Ramanujan Hall	ICP - 064	Design and Simulation of Porous Ti-6Al-4V alloy structures for Additive Manufacturing of Bioimplants	A. Rudra Kumar, S. Rambabu, K. Sri Harsha	Department of Mechanical Engineering, Vignan's Institute of Information Technology, Visakhapatnam 500049, Andhra Pradesh, India	(4:15 PM – 5:45 PM)
	02 nd May 2	Track -3 (Production) Venue :	ICP - 079	Optimization of Minimum Quantity Lubrication Parameters	Amrita. M ¹ , Srikant. R. R ^{2,} Venkata Ramana V S N ³	¹ Gayatri Vidya Parishad College of Engineering (A), Visakhapatnam –530048. India ² Dept. of Technology, University of Northern Iowa, Cedar Falls, IA, USA. 50614 ³ GITAM (Deemed to be) University, Visakhapatnam – 530045. India	(4:15)
			ICP - 109	Effect of co-deposition of carbides on the functional properties in cold sprayed coatings	S.Kumar, L.Venkatesh, Naveen M Chavan, D.Srinivasa Rao	International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI) Balapur Po, Hyderabad 500 005	
			ICP - 106	Investigation on Influence of Hybrid Nanofluid/MQL on Surface Roughness in Turning Inconel-718	Mechiri Sandeep Kumar ^a , V. Vasu ^b , A. Venu gopal ^b	^a Department of Mechanical Engineering, B. V. Raju Institute of Technology, Narsapur, Medak, Telangana . 502313, India ^b Department of Mechanical Engineering, National Institute of Technology, Warangal, Telangana . 506004, India	

11100		Paper ID	Paper Title	Authors	Affiliation	<i>y</i> = 0 = <i>y</i>
		ICP - 058	Mechanical Properties Of Natural Fiber Reinforced Composites	K.Kalyani , A. Muni Tanuja, P.Priyanka	ME Dept, Anurag Group Of Institutions, Hyd-88, Telangana, India	
	Technical Session -1	ICP - 108	Different methods of improving hardness in diodelaser treated surfaces of lowcarbon low-hardenability steels	Mr.K.V.PhaniPrabhakar Dr.S.M.Shariff Dr.P.SureshBabu Dr.S.Kumar	International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI) Balapur Po, Hyderabad	
	Technical	ICP - 083	Mechanical Characterization of Unidirectional Banana- Glass Fiber Reinforced Hybrid Composites	Ch. Naveen Reddy ¹ , M. Bhargav ² Dr. K. Ajay Kumar ³	500 005 1,3 VNR VJIET, Hyderabad, 500090, India 2 NIT Warangal, Warangal, 506004, India	
ırsday)	наш	ICP - 110	Challenges in translating research on dissimilar materials fusion joining into technology	K.V. Phani Prabhakar, AnbuRasu E G. Padmanabham	International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI) Balapur Po, Hyderabad 500 005	PM)
02 nd May 2019 (Thursday)	Track -4 (Industrial/Production) Venue : Raman Hall	ICP - 035	Effect of Exfoliated Vermiculite as thickening and foaming agent on the Physical Properties of Aluminium Foam	VVK Lakshmi ¹ , K Arun Vikram ¹ , KV Subbaiah ² , K Suresh ¹ B Surendra Babu ¹	¹ Department of Industrial Engineering, GITAM Institute of Technology, Vizag, Andhra Pradesh, India ² Department of Mechanical Engineering, AU College of Engineering (A), Vizag, Andhra Pradesh, India	(4:15 PM – 5:45 PM)
	Track -4 (ir	ICP - 085	An effective and economical method to improve structural homogeneity and mechanical properties of Al-Mg alloy processed by ECAE	Ananda Babu Varadala ¹ , Swami Naidu Gurugubelli ² , Sateesh Bandaru ³	¹ Mechanical Engineering, Vignan's Inst. of Engg. for Women, Visakhapatnam-530049, Andhra Pradesh, India ² Metallurgical Engineering, JNTUK-UCEV, Vizianagaram 535003, Andhra Pradesh, India ³ Mechanical Engineering, Vignan's Inst. of Info. Technology, Visakhapatnam-530049, Andhra Pradesh, India	

		Paper ID	Paper Title	Authors	Affiliation	
		ICT - 004	Combustion Performance Of Hybrid Rocket Motor Under The Influence Of Cylindrical Protrusion	Manikandan K ¹ , Lakshmi Das K ¹ , Purushothaman N ² , Karthik ¹	¹ SASTRA Deemed to be University, Thanjavur TN 613401,India ² Hindustan Deemed to be University,	
	ermal) Venue :HomiBhabha Hall	ICT - 011	Mixed convective heat transfer with surface radiation in a vertical channel in presence of Heat spreader	S K Mandal, Arnab Deb, Dipak Sen	Chennai TN 603103, India Department of Mechanical Engineering, NIT-Arunachal Pradesh, Yupia-791112, Arunachal Pradesh, India	
		ICT - 026	Design, Development and Analysis of Intake Manifold of Single Cylinder Diesel Engine	Nikhil A. Bhave ¹ Mahendra M. Gupta ¹ , Sandeep S. Joshi ¹ , Mohan G. Trivedi ¹ , Neeraj Sunheriya ²	¹ Shri Ramdeobaba College of Engineering and Management, Nagpur 440016, India ² National Institute of Technology, Raipur 492013, India	:30 AM)
(Friday)		ICT - 033	Flow characteristic study of contraction of compressor intermediate S-shaped duct facility	Manish Sharma Beena D. Baloni	Department of Mechanical Engineering, Sardar Vallabhai National Institute of Technology, Surat-395007,Gujarat, India	
03 rd May 2019 (Friday)		ICT - 040	Heat transfer enhancement of Al2O3 based nanofluid in a shell and helical coil heat exchanger	Prabhakar Zainith, Niraj Kumar Mishra	National Institute of Technology, Srinagar Garhwal, Uttarakhand 246174, India	9:45 AM – 10:30 AM)
30		ICT - 045	Pressure Drop in Vertical Pneumatic Conveying: Comparison between Numerical Predictions with Existing Correlations	Pandaba Patro, Debasis Mishra	Veer Surendra Sai University of Technology, Burla,Odisha, India	6)
	Track -1 (Thermal)	ICT -057	The Analytical Study of Velocity Slip on Two Phase Flow in an Eccentric Annular Region	Umadevi B ¹ , Dinesh P.A. ² , Vinay. C.V ¹	¹ Department of Mathematics, JSS Academy of Technical Education, Bangalore –60, India ² Department of Mathematics, M. S. Ramaiah Institute of Technology, Bangalore–54, India	
		ICT - 072	Numerical Analysis of Porous Recto semi-circular Enclosures withNon uniform heating of Bottom Wall	Shantanu dutta ¹ Arupkumar biswas ²	¹ Department of Mechanical Engineering, NSHM Knowledge Campus Durgapur -713214, India ² National Institute of Technology Durgapur-713212,India	

 IIICI	nationa	Paper ID	Paper Title	Authors	Cn(ICAMER2019)2 nd - 4 th May 20 Affiliation	19
		ICD - 002	Damage and failure analysis of	Anju Verma,	National Institute of Technology,	
		100 - 002	short carbon fiber reinforced	Anju vernia, Apurba Mandal,	Uttarakhand, Srinagar Garhwal,	
			epoxy composite pipe using FEA	DungaliSreehari	246174, India	
		ICD - 008	epoxy composite pipe using I LA	Dungansieenan	¹ Department of Mechanical	
		100 - 008			Engineering,	
					Christian College of Engineering	
				Joji Thomas ¹ ,	and Technology, Bhilai,	
			Simple Optimization Algorithm	Anshuman	Chhattisgarh, India	
			for Design of a Uniform Column	Kumar Sahu ² ,	² Department of Mechanical	
			lor besign of a officient column	Siba Sankar	Engineering,	
				Mahapatra ²	National Institute of Technology,	
					Rourkela,	
					Odisha, India	
		ICD - 016			¹ Department of Mechanical	
					Engineering,	
	-5				AITAM,	
	ion				Tekkali-532201, A.P, India	
	Technical Session -2		Quantitative analysis	Siva Sankara	² Department Mechanical	
	al S		ofTribological Performance on	Raju R ¹ ,	Engineering,	
	nic		Al-CSAComposite using	Venkata Siva B ² ,	NEC,	
	əch		Orthogonal Array	Srinivasa Rao G ³	Narasaraopeta-522601, A.P, India	
	ĭ				³ Department Mechanical	
					Engineering,	
					RVR&JC,	
ау)	_				Guntur-522019, A.P,India	Σ
rid	Venue : Bose Hall	ICD - 037			^{1,3} MPSTME,	(9:45 AM – 10:30 AM)
9 (F	se			Vivek S	NMIMS,	0:3
101	Во		Hamiltonian based solutions of	Sharma ^{1,} ,	Shirpur 425405,	- 1
ay 2	: ər		Certain PDE in Plasma Flows	Parag V Patil ² ,	Maharashtra, India ² Independent Mathematician,	Σ
Ž	enı			Milan A Joshi ³	Jalgaon 425001, Maharashtra,	15 4
03 rd May 2019 (Friday)	>				India	7:6)
)		ICD - 043			¹ Government College of	
	(uŝ			Sudhansu	Engineering,	
	esign)		On the Response of a Beam	Meher ¹	Keonjhar 758002, India	
	(۵		Structure to a Moving Mass	Suraj Parida ²	^{2,3} National Institute of	
	د -2		Using Green's Function	Rabindra Kumar Behera ³	Technology, Rourkela 769008,	
	Track -2 (D			Benera	India	
	F	ICD - 044			¹ Department of Mechanical	
					Engineering,	
					Amity University,	
			A Programmatic Approach for	\m 1 \	Dubai,345019, Dubai, UAE	
			the Prediction of Service life of	Vishal Naranje,	² Department of Mechanical	
			Deep Drawing Die Using ANN	Sachin Salunkhe	Engineering,	
					Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and	
					Technology, Avadi -600 062,	
					Chennai, Tamil Nadu, India	
		ICD - 047			Indian Institute of Information	
		.05 047	Analysis and Selection of Bio-	Jannatul	Technology,	
			Stents Using Finite Element	Bashar,	Design and Manufacturing,	
			Method	Jayabal K	Kancheepuram, India	
		ICD - 068	A selice of the selice of		¹Vignan's Institute of Information	
			Active vibration control in	Rajasekhara	Technology, Visakhapatnam,	
			Turbocharger rotor system with	Reddy Mutra ¹ ,	Andhra Pradesh, 530046, India,	
			the use of electromagnetic actuator	Dr J. Srinivas ²	² National Institute of Technology,	
			detuator		Rourkela, Odisha. 769008, India	

Ī	11100	THEOLOG	Paper ID	Paper Title	Authors	Affiliation	
		Track -3 (Production) Venue : Ramanujan Hall	ICP – 010	Solid lubricant effect on the microstructure and hardness of theFunctionally graded cemented tungsten carbide	Rityuj Singh Parihar, Srinivasu GangiSetti, Raj Kumar Sahu	Department of Mechanical Engineering, National Institute of Technology Raipur, Raipur 492010, Chhattisgarh, India,	
			ICP - 013	Evaluation of Mechanical Properties of Banana and S- glass Fiber Reinforced Hybrid Nano Silica Composite	P. Srinivas Manikanta, M. Somaiah Chowdary, Dr. M.S.R Niranjankumar	Mechanical Engineering Department, Prasad V Potluri Siddhartha Institute of Technology, Vijayawada- 520007, Andhra Pradesh, India.	
			ICP - 022	Environment effect on Impact strength of Pistachio shell filler based Epoxy Composites	Sandeep Gairola, Somit Gairola, Hitesh Sharma	Mechanical department, National Institute of Technology Uttarakhand, Uttarakhand, India	
9 (Friday)	9 (Friday)		ICP – 030	Wear resistance of structural steels having ultra-low carbon to high carbon concentration	Soumya Sourav Sarangi ¹ , Avala Lavakumar ^{1,2} D Narashimachary ³	Department of Metallurgical& Materials Engineering, Veer Surendra Sai University of Technology, Odisha, India – 768018 Department of Materials Science and Engineering, Kyoto University, Japan Department of Metallurgical and Materials Engineering, National Institute of Technology, Rourkela, Odisha, India - 769008	0:30 AM)
	03 rd May 2019 (Friday)		ICP - 082	Investigation on the Microstructure and Mechanical properties of AZ91D Magnesium Alloy Plates joined by Friction Stir Welding	K. N. B. Kumar C. Vanitha	Department of Metallurgical and Materials Engineering, National Institute of Technology, Warangal Warangal-506004, Telangana state, India.	(9:45 AM – 10:30 AM)
			ICP - 099	Multi-Parametric Optimization of Electrical Discharge Machining of Inconel-690 using RSM-GRA Technique	Bhavani Marturi ¹ , Murahari Kolli ² , Adepu Kumar ³ , Seelam Pichi Reddy ⁴ , Sai Naresh Dasari ⁵	1,2,4,5 Department of Mechanical Engineering, Lakireddy Bali Reddy College of Engineering, Mylavaram-521456, 3 Department of Mechanical Engineering, National Institute of Technology Warangal, Warangal-506004,Telangana State, India	
			ICP - 026	Experimental investigation of process parameters of EDM on 17-4 PH steel using taguchi method	Sampath Velpula ^a , K.Eswaraiah ^b , B.Anil Kumar ^c	^a Department of Mechanical Engineering, VBIT Medchal-501301,TS,India ^b Department of Mechanical Engineering, KITS Warangal-506015,TS, India ^c Department of Mechanical Engineering, KUEC Warangal-506009,TS, India	
			ICP - 047	FEM modeling of coated tools to study the influence of coating thickness	M.Khirod Kumar ^a ,Hareesh ^a , P.Vamsi Krishna ^a S. Sambhu Prasad ^d	^a Department of Mechanical Engineering, National Institute of Technology, Warangal ^d Department of Mechanical Engineering, Pragathi Engineering College, surampalem-, India	

		Paper ID	Paper Title	Authors	Research(ICAMER2019)2 nd - 4 th May 20 Affiliation	
		ICT - 079	Numerical Analysis of Fluid-Structure Interaction of blood flow througha flexible tube with 90-degree bend using OpenFOAM	Rishabh N. Jaiswal ,Trushar B. Gohil	Department of Mechanical Engineering, Visvesvaraya National Institute of Technology, Nagpur-440010, Maharashtra, India	
03 rd May 2019 (Friday)	Technical Session -2	ICT - 009	Improved Water Purification Rates in Solar System using Plasmonic Particles	Dr. Sushant Satputaley, Bijay Sankhari, Aashish Nagose, Karan Ksheersagar	Department of Mechanical Engineering, St. Vincent Pallotti College of Engineering &Technology, Nagpur, 441108, Maharashtra, India	
	Track -4 (Industrial/Production) Venue : Raman Hall	ICT - 015	Experimental investigation of four stroke single cylinder diesel engine with oxygenated fuel additives	Maloth Mohan Kumar, Vasmate Shiva Kumar	Department of Mechanical Engineering Anurag Group of Institutions Hyd India 500088	(9:45 AM – 10:30 AM)
		ICT - 048	CFD Modeling of Combustion and Calcination Reaction in Cement Calciner	Shital Mone ^a , B. S. Gawali ^a , M. S. Joshi ^a , VivekVitankar ^b	^a Dept. of Mechanical Engineering, Walchand College of Engineering, Sangli 416 415, Maharashtra, India ^b Director, FluiDimensions, Pune 411 045, Maharashtra, India	
03 rd		ICT - 078	The Effect of Diesel and Bio-Diesel Blends on CI Engine Performance and Emission Characteristics	J.Venkatesu Naik ^a , K.Kiran Kumar ^b , S Venkata Sai Sudheer ^b , Pallikonda mahesh ^b	^a SoET, SPMVV, Tirupati,Andhra Pradesh, 517502, India ^b National Institute of Technology Warangal, Warangal, Telangana, 506 004, India	(9:4
		ICT - 061	Incorporating Additional Power Cycle In Conventional Four Stroke SI Engine To Develop Six Stroke Engine	Shreyas Abhyankar, Agnel Thomas, Leslie Fernandes, Rohan John, Kamlesh Sasane, Aqleem Siddiqui	Mechanical Engineering Department Fr. C. Rodrigues Institute of Technology Vashi, Navi Mumbai, India	
		ICT - 083	Reliability Analysis Of Wind Turbine And Maximization Of Power Output	P.karunyamoorthy, P.venkataramaiah, R.Lalu naik3	Department of Mechanical engineering, SVUCE, Tirupati,517502,India	
		ICT - 085	CFD analysis of helical coiled heat exchanger	S. JaiKumar, A. Umesh Anirudh, K. Janardhan Sai	Mechanical Engineering, GITAM (Deemed to be University), Visakhapatnam 530045, India.	

		Paper ID	Paper Title	Authors	Affiliation	
May 2019 (Friday)	iical Session -3 II	ICT -016	Experimental Analysis on Thermal Performance of a Solar Air Heater at Different Angular Positions	Sk. A. Rahaman, T. Eswar, S.J. Reddy, M. Mohan Jagadeesh Kumar	Gayatri Vidhya Parishad College of Engineering (A),Kommadi, Vizag, Andhra Pradesh, India 530048	
	k -1 (Thermal) Technical Venue :HomiBhabha Hall	ICT - 005	Social and economic impact assessment of solar water pumping system on farmers in Nagpur district of Maharashtra state of India	Devidas H. Yadav, Arunedra K. Tiwari, Vilas R. Kalamkar	Department of Mechanical Engineering, Visvesvaraya National Institute of Technology, Nagpur 440010, Maharashtra, India	5 PM – 3:45 PM)
03 rd N		ICT - 008	Experimental Study of Closed Loop Thermosyphon System using Different Working Fluids	Mahasidha R. Birajdar ¹ C. M. Sewatkar ¹	¹ College of Engineering, Pune, Maharashtra, India	(2:45
	Track	ICT - 010	Identifying empirically important variables in IC engine operation through redundancy analysis	Satishchandra Salam TikendraNathVerma	Department of Mechanical Engineering, National Institute of Technology Manipur, Imphal – 795004, India	

		Paper ID	Paper Title	Authors	Affiliation	
	Session -3	ICD - 009	Unbalance and dynamic parameters estimation in a rigid rotor mounted on active magnetic bearings	Prabhat Kumar, Vikas Kumar, Kundan Kumar, Lakhan Singh Meena	Department of Mechanical Engineering, NIT Manipur, Imphal West, 795004, Manipur, India	
(Friday)	Technical Session e Hall	ICD - 011	Investigating the influence of geometrical and material parameters on peeling behaviour of a gecko spatula	Sai praneeth Gouravaraju, Sachin S. Gautam*	Department of Mechanical Engineering, Indian Institute of Technology Guwahati, Guwahati, India 781039	3:45 PM)
03 rd May 2019 (Friday)	Track -2 (Design) Venue : Bose	ICD - 033	A numerical study to investigate the modal analyses of cracked airplane wing (NACA2415)	Gaurav Verma, Anshul Sharma, Yogesh K. Prajapati	Department of Mechanical Engineering, National Institute of Technology Uttarakhand- 246174, Srinagar, Uttarakhand, India	(2:45 PM – 3:
	Track	ICD - 040	Nonlinear Dynamic Analysis of Automotive Turbocharger Rotor System	S.Bala Murugan ¹ , R K Behera ¹ , P K Parida ²	¹ National Institute of Technology, Rourkela, 769008, Odisha, India ² College of Engineering and Technology, Bhubaneswar, 751003,Odisha, India	

		Paper ID	Paper Title	Authors	Affiliation	
	Technical Session -3	ICP - 080	Experimental investigation and mathematical modelling for material removal and tool wear in making of rectangular channels by Electric Discharge Machining (EDM) on Aluminium-Boroncarbide composite sintered preform	Suresh Gudipudi ¹ , Selvaraj N. ¹ , Kanmani Subbu S. ² , Rao C. S. P. ³	¹ Department of Mechanical Engineering, National Institute of Technology Warangal, Warangal- 506 004, Telangana, India. ² Discipline of Mechanical Engineering, Indian Institute of Technology Palakkad, Palakkad- 678 557, Kerala, India. ³ National Institute of Technology Andhra Pradesh, Tadepalligudem- 534 102, Andhra Pradesh, India.	
.019 (Friday)	oduction) Technica Venue : Ramanujan Hall	ICP - 009	Base transesterification of ineffectual soybean oil using lab scale synthesized CaO catalyst	Ningthoujam Rakesh Singh, Naorem Ronaldo Singh, Langpokpam Denin Singh , Thokchom Subhaschandra Singh, TikendraNath Verma	Department of Mechanical Engineering, National Institute of Technology Manipur, Langol, Imphal - 795004, India	(2:45 PM – 3:45 PM)
03 rd May 2019 (Friday)	Track -3 (Production) Venue : Ra	ICP - 037	On The Role of Amylum Additive Based Cutting Fluids in Machining – An Experimental Investigation	Padmini R ^a , Vamsi Krishna P ^b , Jeevan Kumar P ^c	a, c Department of Industrial Engineering, GITAM Institute of Technology, Visakhapatnam – 530045, Andhra Pradesh, b Department of Mechanical Engineering, National Institute of Technology, Warangal - 506004, Telangana State, India	(2:45 PM
		ICP - 046	Experimental and Numerical Modelling of ECMM on Al 7075 T6 Alloy	Samson praveenkumar K ¹ Dr. Jaya Chandra Reddy G ²	¹ Dept. of Mechanical Engineering, YSR Engineering college of YVU, Proddatur, Kadapa A.P- 516360 ² Dept. of Mechanical Engineering, YSR Engineering college of YVU, Proddatur, Kadapa A.P- 516360	

		Paper ID	Paper Title	Authors	Affiliation	Ž
	ion -3	ICP - 002	Investigations on Corrosion Behaviour in Micro-Milling of Biomedical GradeTi-6Al-7Nb Alloy	S.P.Leo Kumar, D.Avinash	Department of Production Engineering, PSG College of Technology, Coimbatore-641004, India	
	Technical Session -3	ICP - 008	Characterisation and Performance Measure Evaluation of Nanofluid blended Thin film Temperature Gauges	Jayesh P, Sheikh Afridhi, Abhay Mohan	MVJ College of Engineering, Bangalore, India.	
03 rd May 2019 (Friday)	man Hall	ICP - 094	Experimental and Finite Element Analysis of Fracture Toughness of chilled LM13 MMC	Harshith H S ¹ Joel Hemanth ²	¹ Mechanical Engineering Department, Channabasaveshwara Institute of Technology, Tumkur, 572216,Karnataka, India ² Mechanical Engineering Department, Presidency University, Bengaluru, 560064, Karnataka, India	(2:45 PM – 3:45 PM)
0.0	Track -4 (Industrial/Production) Venue : Rai	ICP - 029	Performance improvement of Nanofluid Minimum quantity lubrication (nanofluid mqL) technique in surface grinding by optimization using Jaya algorithm	Sharad Chaudhari ^a , Rahul Chakule ^b , Poonam Talmale ^c	a,b Department of Mechanical Engineering, Yeshwantrao Chavan College of Engineering, Nagpur 441110, Maharashtra ,India C Department of Mechanical Engineering, Late G.N. Sapkal College of Engineering , Nasik 422213, Maharashtra, India	

		Paper ID	Paper Title	Authors	Affiliation	
		ICT - 003	Computational Study of Mixed Convection of Electronic Chips with Surface Radiation	Arnab Deb ¹ S K Mandal ¹	Department of Mechanical Engineering, NIT-Arunachal Pradesh, Yupia-791112, Arunachal Pradesh, India	
	ession -3	ICT - 024	Exergy Modelling of a Coal- Fired MHD Power Plant	Prabin Haloi, Tapan Kumar Gogoi	Department of Mechanical Engineering, Tezpur University, Tezpur-784028, Assam, India	
	Technical Session -3	ICT - 030	Calibration of reference velocity and longitudinal static pressure variation in the test section of an open type subsonic wind tunnel	Neeraj Verma Beena D. Baloni	Sardar Vallabhbhai National Institute of Technology-Surat, 395007, India	
03 rd May 2019 (Friday)	mal) Venue :HomiBhabha Hall	ICT - 080	Thermoacoustic Refrigeration: An Overview	B. G. Prashantha ^{1,} , S.Seetharamu ² , g. S. V. L. Narasimham ³ bhimasen soragaon ¹	Department of Mechanical Engineering, JSS Academy of Technical Education, Dr.Vishnuvardhana Road, Bangalore 560 060, India Formerly Central Power Research Institute, Bangalore 560 080, India Department of Mechanical Engineering, Indian Institute of Science, Bangalore 560012, India	(4:00 PM – 5:45 PM)
	Track -1 (Thermal)	ICT - 041	Numerical Analysis of the effect of fluid-structure interaction on Heat Transfer in the square cavity using OpenFOAM	Nikhil Chitnavis , Trushar B Gohil	Department of Mechanical Engineering, Visvesvaraya National Institute of Technology, Nagpur-440010	
		ICT - 051	CFD analysis of wind turbine with different flange angles	S.M. Bichitkar P.P. Buddiyal, S.S.Chavan, A.A. Kulkarni, V. B. Gawande	V.P's Kamalnayan Bajaj Institute of Engineering and Technology, Baramati-India-413133	
		ICT - 053	Solar hybrid electricity generator and water heater. (SHEGAWH)	Mr. Nishant kshirsagar, Mr. Suraj Sandhanshiv, Dr.Niharwalimbe	Department of Mechanical Engineering, Dhole Patil College of Engineering, Pune 412207	

		Paper ID	Paper Title	Authors	Affiliation	
	Technical Session -3	ICD - 063	Dynamic Response of FGM Kirchhoff's Plate	Pratikshya Mohanty R.K. Behera	Dept. of Mechanical Engineering, National Institute of Technology Rourkela, 769008, India	
		ICD – 065	Comparative study of various defects in monolayer graphene using molecular dynamics simulation	Kritesh Kumar Gupta, Aditya Roy, SudipDey	Department of Mechanical Engineering, National Institute of Technology Silchar, India	
		ICD - 019	Quality, Time and Cost Effective Brush Seal Manufacturing for Industrial Gas Turbines through a Reconfigurable Complete Fixture	Dr.R.Saravanan, S.Rajeshwer	Department of Mechanical Engineering, Ellenki College of Engg. and Tech., Hyderabad, TS, India	
lay)		ICD - 073	Influence of Surface Textures by Ink-Jet Print Followed by Chemical Etching Process on the Performance of HSS Cutting tool	K. Nagendra Prasad, Syed Ismail	Department of mechanical engineering, NIT Warangal,Warangal- 506004,Telangana, India	M)
03 rd May 2019 (Friday)	Track -2 (Design) Venue : Bose Hall	ICD - 023	Design and vibration analysis of rotor blade disk and integrated bladed disk of a gas turbine compressor	Ch.Satyannarayana ^a , Dr.K.T.Balaram Padal ^a , K.Harish Kumar ^b , K.Mahesh ^c	a Department of Mechanical Engineering, Andhra University, Visakapatnam, AP,India. b Department of Mechanical Engineering, Vignan's IIT, Visakapatnam AP,India. c Department of Design, Cyient Ltd, Hyderabad 500089, Telangana, India.	(4:00 PM – 5:45 PM)
		ICD - 075	Topology optimization using strain energy distribution for 2-d structures	Srinivas Bairy, Rafaque Ahmad Hari K. Voruganti	Department of Mechanical Engineering, National Institute of Technology Warangal, Telangana, India-506004	
		ICD - 017	Application of kinect for reverse engineering: a case study	A. Sri Harsha ^a , Ch. R. VikramKumar ^b ,	aMechanical Department, JNTUA, Ananthapuramu, 515002, Andhra Pradesh, India bMechanical Department, N.B.K.R.I.S.T., Vidyanagar, 524413, Andhra Pradesh, India	

			Paper	Paper Title	Authors	Affiliation	
03 rd May 2019 (Friday)			ICP - 045	The Effect of ZrO2 and TiO2 Reinforcing Agent on the Microstructure and Mechanical Properties of Hydroxyapatite Nanocomposites	V. Ajay Kumar ¹ , P. Rama MurtyRaju ¹ , N. Ramanaiah ² , S. Rajesh ^{1*}	¹ Department of Mechanical Engineering, S.R.K.R. Engineering College, China Amiram, Bhimavaram-534204, Andhra Pradesh, India ² Department of Mechanical Engineering, A.U. College of Engineering, Andhra University, Visakhapatnam-530003, Andhra Pradesh, India	
		ession -3	ICF - 043	Tensile Property of Ultra High Molecular Weight Polyethylene Fibre and Its Composite Laminate	Arun Kumar Singh ¹ , Dharmendra Kumar Shukla ² N Eswara Prasad ¹	Establishment, DRDO, Kanpur- 208013 India Mech. Engg. Dept., Motilal Nehru National Inst. of Tech., Allahabad-211004 India	
	19 (Friday)	Technical Session -3 anujan Hall	ICP - 095	Design and Fabrication of Die Back Door for Manufacturing of Cylinder Liners	T Vadivelu ^a , Dr.C.Vijaya Bhaskar Reddy ^b , Dr.G.Prasanthi ^c	^a JNTUA, Ananthapuramu-515002, A.P, India ^b Department of Mechanical Engineering, SVCET, RVS Nagar, Chittoor-517127, A.P, India ^c Department of Mechanical Engineering, JNTUA, Ananthapur-515002, A.P, India	5:45 PM)
	03 rd May 20	Venue : Ramanujan Hall	ICP - 048	Effect of Graphene Nanofluid on Machining Inconel 718	Siva Bevara, Sanjay Kumar Kamesh Amrita M	Gayatri Vidya Parishad College of Engineering(A), Visakhapatnam-48, Andhra Pradesh, India	(4:00 PM – 5:45 PM)
		Track -3 (Production)	ICP - 053	Mechanical Properties of AA7075-Nano ZrO2 Reinforced Matrix Composites	Prasanna Nagasai B, Srikanth S, J A RangaBabu	Department of Mechanical Engineering, Gudlavalleru Engineering College, India	
		Trac	ICP - 077	Experimental Investigation of Electro Discharge Machining on NIMONIC 80A through Response Surface Methodology	G. Vishnu Pramod Teja ¹ , K. Saraswathamma ¹ , P. Murali Krishna ² G. Tejeswara Rao ³	¹ Department of Mechanical Engineering, University College of Engineering (A), Osmaina University, Hyderabad 500007, Telangana, India ² Department of Mechanical Engineering, Government Polytechnic, Srikakulam 532001, Andhra Pradesh, India ³ Department of General Section, Government Polytechnic, Amadalavalasa 532185, Andhra	
			ICD - 074	Effect of Temperature on the Tribological Performance of MoS ₂ -TiO ₂ Coating Material	A.V. Borgaonkar, S. Ismail	Pradesh, India Department of mechanical engineering, NIT Warangal,Warangal- 506004,Telangana, India	

111001	-14010110	Paper ID	Paper Title	Authors	ch(ICAMER2019)2 nd - 4 th May 20 Affiliation	
		ICI – 007	Redesigning of electric plug for assembly time reduction using DFA	V.Naga Malleswari, B.Surendra Babu Ch.Praneeth	Industrial Engineering, GITAM Institute of Technology, Visakhapatnam, A.P, India	
	-3	ICP - 093	Performance Analysis of Different Tool Shape in Electric Discharge Machining Process with Vegetable oil as Dielectric Fluid	B. Singaravel, K. Chandra Shekar', G. Gowtham Reddy S. Deva Prasad,	Department of Mechanical Engineering, Vignan Institute of Technology and Science, Deshmukhi, Hyderabad, Telangana State, India.	
	Technical Session -3	ICP – 107	Fuzzy Logic and RegressionModelling of Machining Parameters in Turning AISI 1040 Steel using Vegetable Based Cutting Fluids with Extreme Pressure Additive	B. Satheesh Kumar ^{1,} Neelam Parimala ² , P. Vamsi Krishna ³	¹ Department of Mechanical Engineering, N.B.K.R.I.S.T., Vidyanagar - 524 413, India ^{2,3} Department of Mechanical Engineering, NIT Warangal, Warangal - 506 004, India	
03 rd May 2019 (Friday)	duction) Venue : Raman Hall	ICP - 014	Tribological Behavior of Carbon Fiber Polymer Composites Reinforced with Nano-fillers	Shylesh K Siddalingappa ^a , Bhaskar Pal ^b , Haseebuddin ^c , K Gopalakrishna ^d .	a, b Department of Mechanical Engineering, School of Engineering, Presidency University, Bengaluru-560064, Karnataka State, India. CDepartment of Mechanical Engineering, Dayananda Sagar College of Engineering, Bengaluru-560078, Karnataka State, India Jyothy Institute of Technology, Bengaluru-560082, Karnataka State, India.	(4:00 PM – 5:45 PM)
	Track -4 (Industrial/Production)	ICP - 071	Optimizing microhardness of electroless Ni-P coated copper substrate using PSO	R. P. Saw ^a , S. Dutta ^b , S. Dey ^c	a, cDepartment of Mechanical Engineering, National Institute of Technology Silchar 788010, Assam, India Department of Civil Engineering, National Institute of Technology Silchar 788010, Assam, India	
		ICP - 092	A Review on Magnetic nanofluids	Bhargava Kumar P, Ranga Babu J A, MR Ch Sastry	Mechanical Engineering Department, Gudlavalleru Engineering College, Gudlavalleru 521356, Andhra Pradesh, India	
		ICD - 076	Kinematic Analysis for Optimum Manipulability and Trajectory Planning of Human Leg	Abhijeet Dhoke, V. V. M. J. Satish Chembuly Hari K. Voruganti	Department of Mechanical Engineering, NIT Warangal, Telangana State, India-506004	

		Paper ID	Paper Title	Authors	Affiliation	
	Technical Session -4	ICT - 082	Design, Development and Experimental analysis on economic and portable smokeless oven	Mainak Bhaumik	Department of Mechanical Engineering, MGM's CET, Kamothe, New Mumbai -410209, India	
		ICT - 006	Thermally Developing Region of a Parallel Plate Channel Partially Filled with a Porous Material with the Effect of Axial Conduction and Viscous Dissipation: Uniform Wall Heat Flux	J. Sharath Kumar Reddy ¹ D. Bhargavi ²	^{1,2} Dept. of Mathematics, NITW, Warangal, Telangana India.	
		ICT - 054	Performance and Emission Characteristics of Thermal Barrier Coating on Diesel Engine Fueled with Cottonseed Biodiesel	Badal Kudachi ¹ , Nitin Satpute ² , Nilaj N Deshmukh ¹ Bipin Mashilkar ¹	¹ Department of Mechanical Engineering, Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai, PIN-400703, Maharashtra, India ² Department of Mechanical Engineering, Faculty of Science and Technology, Vishwakarma University, Pune, PIN- 411037, Maharashtra, India	(9:30 AM – 11:45 AM)
May 2019 (Saturday)	Techni Venue :HomiBhabha Hall	ICT - 056	Performance and Emission analysis of Rapeseed Methyl Ester on DI diesel engine using Artificial Neural Network	V.Amosu ¹ , S.K. Bhatti ² , S. Jai kumar ³	¹ Dept. of Mechanical ngineering, Andhra University, Visakhapatnam 530003, Andhra Pradesh, India ² Dept. of mechanical engineering, College of Engineering for women, Andhra University, Visakhapatnam 530003, Andhra Pradesh ³ Mechanical engineering dept., GITAM University, Visakhapatnam 530045, Andhra Pradesh,	
04 th N	Track -1 (Thermal) Venuo	ICT - 062	Numerical study on the effect of impeller geometry on pump performance	Arshdeep Singh ^a , Siga Satya Sekhar ^a , Jayavel S ^a , Sudhir Varadarajan ^a	^a Mechanical department, Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram Chennai 600 127, Tamilnadu, India	(9:3
	Tra	ICT - 067	Numerical Simulation of Heat Transfer and Fluid Flow Characteristics of Triangular Corrugated Wavy Channel	Meghna Das Chaudhury, Raju	Department of Mechanical Engineering, National Institute of Technology, Rourkela 769008, Odisha, India	
		ICT - 071	Emission and performance characteristics of CI engine with Diesel - Butanol blends using intake pressure boost	Hemant Gowardhan, Amit Karwade, Dr.J.G.Suryawan shi	Department of Mechanical Engineering, Visvesvaraya National Institute of Technology, Nagpur 440010, Maharashtra, India	
		ICT - 075	Computational Studies of Shock Wave Boundary Layer Interactions in Hypersonic Flow over Double Cone Geometries	Vayala Siva, R K. Peetala	Department of Mechanical Engineering, Visvesvaraya National Institute of Technology, Nagpur-440010, Maharashtra, India	
		ICT - 001	A Comparative Study on Electric Vehicle Testing Standards	Sachin B. Lokhande ^a , Satyajit R. Patil ^a	^a Dept. of Automobile Engineering, Rajarambapu Institute of Technology, Sakharale Shivaji University, Kolhapur, Maharashtra, INDIA 415414	

1///	Critati	Paper ID	Paper Title	Authors	Affiliation	
		ICD – 005	Experimental Studies on Steel Beam- to- Column Connections under Elevated Temperature	Cinitha.A , V.Nandhini	CSIR-Structural Engineering Research Centre, Chennai-600113, Tamil Nadu, India Department of Civil Engineering, Nandha Engineering College, Erode-638052, Tamil Nadu, India	
	ssion -4	ICD - 006	Investigating the Influence of Higher- order NURBS Discretization on Contact Force Oscillation for Large Deformation Contact Using Isogeometric Analysis	Vishal Agrawal, Sachin S. Gautam	Department of Mechanical Engineering, Indian Institute of Technology Guwahati, Guwahati -781039, India	
	Technical Session -4	ICD - 045	Thermo-Mechanical Analysis of Unidirectional PALF Composites Using Micromechanical Approach	Anurag Jasti, Sandhyarani Biswas	National Institute of Technology Rourkela, Rourkela -769008, India	
Saturday)	e Hall	ICD - 048	Electro-Mechanical Responses of Dielectric Elastomers	Moumita Tewary, Tarapada Roy	National Institute of Technology, Rourkela, 769008, India	:45 AM)
04 th May 2019 (Saturday)	Venue : Bose Hall	ICD - 051	Design, Manufacturing and Testing of Feeding & Bending Mechanism	Vijay V. Mehta, Vedant K Parmar, Dr.Nirav P. Maniar, Jasmin P. Bhimani	Mechanical Engineering Department, V.V.P. Engineering College, Rajkot-360005, Gujarat, India	(9:30 AM – 11:45 AM)
04 th	Track -2 (Design)	ICD - 062	Measurement of elastic modulus and damping properties of friction stir processed pure metals using impulse excitation technique	K. Venkateswara Reddy ^a , R. Bheekya Naik ^a , Sandeep Yadav ^a , G. Madhusudhan Reddy ^b , R. Arockia Kumar ^a	^a Department of Metallurgical and Materials Engineering, National Institute of Technology, Warangal, Telangana – 506 004, India ^b Defence Metallurgical Research Laboratory, Kanchanbagh, Hyderabad, Telangana-500 058, India	6)
		ICD - 021	A Review on Design and static Analysis of Chassis Frame and properties of material used in Commercial Vehicle	Akash Kumar, V P Singh	Department of Mechanical engineering, National institute of Technology, Kurukshetra, 136119, Haryana, India	
		ICD – 072	Optimum Geometry of Steering Mechanism for an Automobile	R. Venkatachalam ¹ , A. PadmaRao ²	¹ Department of Mechanical Engineering, National Institute of Technology, Warangal 506004India. ² Department of Mechanical Engineering, B.V. Raju Institute of Technology, Narsapur, 502313, India	
		ICD - 026	Fabrication of intelligent braking system	Kamesh B, Amrita M	Mechanical engineering, GVP College of engineering, Madhurawada 530038, AP, India	
		ICD- 061	Ultrasonic waveguide based liquid Level Measurement using Flexural mode F(1,1)	Nishanth Raja ^a , Krishnan Balasubramaniam ^a Suresh Periyannan ^b	^a Centre for Non destructive Evaluation, Department of Mechanical Engineering ,Indian Institute of Technology Madras, Chennai 600 036,Tamilnadu, India, ^b Department of Mechanical Engineering, National Institute of Technology Warangal 506004, Telangana, India	

		Paper ID	Paper Title	Authors	Affiliation
04 th May 2019 (Saturday)		ICP – 006	Optimization of Machining		Allifation
		101 000	Parameters for Vibration Assisted Turning of Ti6Al4V Alloy Using	D. Venkata Sivareddy, P.Vamsi Krishna,	^{1,} Department of Mechanical Engineering, National Institute of Technology Warangal, Warangal-506004,India
			Analysis of Variance	A.Venu Gopal	vvarangai, vvarangai-500004,inula
	oduction) Technical Session -4 Venue : Ramanujan Hall	ICP - 102	Effect of Nanoparticles addition on microstructural and mechanical properties of friction stir welded 2014 Aluminium alloy	Kethavath Kranthi Kumar, Adepu Kumar, Divya Sachan	Department of Mechanical Engineering, National Institute of Technology, Warangal 506004, Telangana, India
		ICP - 031	Experimental Investigation on Laser Beam Welded Joints of Dissimilar Metals and Optimization of Process Parameters using Firefly Algorithm	B Narayana Reddy , P Hema, Y Prasanth Reddy, G Padmanabhan	Department of Mechanical Engineering, Sri Venkateswara University, Tirupati-517502, India
		ICP - 070	Multi objective optimization of submerged friction stir welding process parameters for improved mechanical strength of Aa6061 weld bead by using taguchi-l18 based gray relational analysis	Laxmanaraju Salavarvu ^a , Lingaraju Dumpala ^b	^a Mechanical Engineering Department, Sri Sivani College Of Engineering, Chilakapalem-532402, Andhra Pradesh, INDIA ^b Mechanical Engineering Department, JNTUK UCEK, Kakinada-533003, Andhra Pradesh, INDIA
		ICP - 076	Numerical Modelingof High Energy Density Beam Assisted Machining of HardenedArmour Steel	A. Sahu ¹ , A.N. Jinoop ^{2,3} , C. P. Paul ^{2,3} , Adepu Kumar ¹ , K. S. Bindra ^{2,3}	¹ National Institute of Technology, Warangal-506004, Telangana, India. ² Laser Development & Industrial Applications Division, Raja Ramanna Centre for Advanced Technology, Indore-452013, Madhya Pradesh,India. ³ HomiBhabha National Institute, Anushaktinagar, Mumbai-400094, Maharashtra, India.
	Track -3 (Production)	ICP - 087	Characterization of Kenaf/ Aloeverafiber reinforced PLA Hybrid biocomposite	P Ramesh ^{1,} B Durga Prasad ² KL Narayana ³	¹ JNTUA Ananthapuramu-515002, AP-India ² Mechanical Engineering Department, JNTUA Ananthapuramu-515002, AP-India ³ Mechanical Engineering Department, SVCET, Chittoor-517127, AP-India
		ICP - 024	Effect of Temperature, coarse grain and loading on fatigue of different materials	Dr. Pravin Nerkar, Mr. Sanket Tawale, Mr.Prachit Shrikhande, Mr.Aamos Sawale	Mechanical Engineering Department, St Vincent Pallotti College of Engineering and Technology, Nagpur-441108, Maharashtra, India
		ICD - 077	Structural Topology Optimization: Methods and Applications	Rafaque Ahmad, Hari K. Voruganti	Department of Mechanical Engineering, NIT Warangal, Telangana State, India- 506004
		ICD - 078	A Multi-Objective Optimization Method Based on Simplex Search Method	Vivek Kumar Mehta Bhaskar Dasgupta	Department of Mechanical Engineering, IIT, Kanpur—208 016, India

L ₂₀ III	ternati		Paper Title	nical Engineering Authors	Research (ICAMER 2019) 2nd - 4th May 2019 Affiliation	
		Paper ID ICP – 096	Fabrication and	Autilois	Amilation	
			Characterization of Functionally Graded Composites using Friction Stir Processing	B.Venkatesh, T.Sadasiva Rao, Adepu Kumar	Department of Mechanical Engineering, National Institute of Technology, Warangal, Telangana, 506004, India	
		ICP - 065	Effect of tool geometry and heat treatment on friction stir processing of AA6061	Karan Chauhan, M.V.N.V. Satyanarayana, Adepu Kumar	Department of Mechanical Engineering, National Institute of Technology, Warangal 506004, Telangana. India	
	Session -4	ICP - 075	Investigation on wear behaviour of AA5052/SiC/AI2O3 hybrid composite fabricated using stir casting process	Shanmuga PriyanV.G ^a , R. Malayalamurthi ^b , S. Kanmani Subbu ^c	^{a,c} Mechanical Engineering, Indian Institute of Technology Palakkad, Palakkad 678557, Kerala, India ^b Department of Mechanical Engineering, A.C College of Engineering and Technology, Karaikudi 630004,Tamilnadu, India	
	Technical Session -4	ICP - 084	Experimental Investigation of Ultrasonic flaw Defects in weld clad materials using NDT Technique	P.Ravindra Kumar ¹ , G.Vijay Kumar ² , K.NagaMurali ³ R.B .S.S.Kishore ⁴	1,3,4 Department of Mechanical Engineering, Lakireddy Bali Reddy College of Engineering, Mylavaram 521456, Andhra Pradesh,India 2 The Future NDT Pvt. Ltd	
04 th May 2019 (Saturday)	iction) Venue : Raman Hall	ICP - 044	Investigating High Temperature Oxidation of Hastelloy-XFabricated by Laser assisted Directed Energy Deposition	K Dileep ^a , A N Jinoop ^{b,c} , C P Paul ^{b,c} , M Baral ^{b,d} , Y Ravikumar ^a , K S Bindra ^{b,c}	a National Institute of Technology, Warangal- 506004, Telangana, India. b HomiBhabha National Institute, Anushaktinagar, Mumbai-400094, Maharashtra, India. c Laser Development and Industrial Applications Division, Raja Ramanna Centre for Advanced Technology, Indore-452013, d Synchrotrons Utilization Section, Raja Ramanna Centre for Advanced Technology, Indore-452013, Madhya Pradesh, India.	(9:30 AM – 11:45 AM)
	strial/Produ	ICP - 054	Measurement and Control of Temperature and Speed using LabVIEW	Nilaj Deshmukh , Shamim S Pathan, Praseed Kumar	Department of Mechanical Engineering, Fr. C. Rodrigues Institute of Technology, Vashi, NaviMumbai , 400 703, Maharashtra, India.	
	Track -4 (Industrial/Production)	ICP - 056	Influence of tool profiles on mechanical properties in Al-5083 alloy using friction stir welding	M.Bala Chennaiah, K.Sai Ram, K.V.B.N.S. Rama Krishna, I.Lohit, I.V.S.Nikhil, S.Madhav	ME Department, V.R.Siddhartha Engineering college, Vijayawada-07 A.P	
		ICP - 063	A review on effect of reinforcement silicon carbide (SiC) on mechanical properties of aluminium metal matrix composite	Ajay R. Bhardwaj ^a , Dr. A M. Vaidya ^b	^a Mechanical Engineering, S.S.B.T's College of Engineering & Technology Bambhori, Jalgaon 425001,Maharashtra, India ^b Mechanical Engineering, Gangamai College of Engineering Nagaon 424005, Maharashtra, India	
		ICP - 033	Parametric optimization of Electrical Discharge Grinding on Ti-6Al-4V alloy using Response Surface Methodology	Murahari kolli ¹ , Adepu Kumar ²	^a Department of Mechanical Engineering, Lakireddy Bali Reddy College of Engineering, , Mylavaram-521 230, Andhra Pradesh, India ^b Department of Mechanical Engineering, National Institute of Technology Warangal, , Warangal-506004, Telangana State, India	