

National Symposium
On
"CLEANER PRODUCTION & GREEN TECHNOLOGY"
(As a part of Centenary Celebration of IEI)
14th December, 2019

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| Organized by The Institution of Engineers (India) South Gujarat Local Centre Under the Aegis of Production Engineering Division | In association with Automobile & Mechanical Engineering Department Chhotubhai Gopalbhai Patel Institute of Technology Uka Tarsadia University, Maliba Campus, Bardoli, Surat |
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SCHEDULE

| TIME | TOPIC | VENUE |
|-----------------------------|---|---------------------------|
| 9 am to 9:30 am | Registration & High Tea | Foyer B 105 SRIMCA |
| 9:30 am to 10:00 am | Inauguration Ceremony | B 105 SRIMCA |
| 10 am to 10:45 am | Keynote Speaker -1 (Dr S A Channiwala, Rtd Professor, SVNIT, Surat) Topic: Recent development and innovation in Gasification Process. | |
| 10:45 am to 11:30 am | Keynote Speaker -2 (Dr Deepak Gadhia, Chairman, Sunrise CSP India Pvt. LTD, Vadodara) Topic: Evolution & Application of Solar Concentrations in India for Thermal Applications. | |
| 11:30 am to 11:45 am | TEA BREAK | Foyer B 105 SRIMCA |
| 11:45 am to 12:30 pm | Keynote Speaker -3 (Dr C M Choudhari, Professor & Head, DME, Terna College of Engineering, Nerul West, Navi Mumbai) Topic: Recent advancement in Casting | B 105 SRIMCA |
| 12:30 pm to 1:30 pm | Lunch Break | Girls' Hostel Mesh |
| 1:30 pm to 3:30 pm | Two Parallel Paper Presentation Sessions | |
| | Track 1: Renewable & Energy Session Chair: Dr Chinmay K Desai, Professor & Head, DME, CGPIT (Paper No: CPGT_1, 2, 3, 4, 5, 8, 17, 19, 21) | H 207, CGPIT |
| | Track 2: Production Technology Session Chair: Dr C M Choudhari (Paper No: CPGT_6, 7, 9, 10, 11, 12, 13, 14, 15, 16, 18, 20) | I 207, CGPIT |
| 3:30 pm to 4:00 pm | Valedictory function | H 104, CGPIT |

SRIMCA = Shrimad Rajchandra Institute of Computer Application, UTU, Maliba Campus.

CGPIT = Chhotubhai Gopalbhai Patel Institute of Technology, UTU, Maliba Campus.

TRACK 1 : RENEWABLE & ENERGY

| Sr No. | Title of the Paper | Authors | Affiliated College |
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| CPGT_1 | DEVELOPMENT AND TESTING OF EVACUATED BOX SOLAR COLLECTOR | Daksh R Tandel, Ashish O Jain | GDEC, Abrama, Navsari |
| CPGT_2 | A COMPREHENSIVE REVIEW ON FEASIBILITY STUDY ON THE PM & NO-X REDUCTIONS WITH THE USE OF WATER-IN-DIESEL EMULSION FUEL IN A DIESEL ENGINE | Bhupendra S. Patil, Dr. Rajesh C. Iyer, Mr Manthan Pathak, Farid Ansari | GTU & CGPIT |
| CPGT_3 | DEVELOPMENT AND TESTING OF INDIRECT COOKING BY USING FRESNEL LENS | Vaibhav Dholariya, Lalaji Godhani | CGPIT |
| CPGT_4 | DEVELOPMENT OF WIND OPERATED BIKE | Jayeshkumar Parekh, Umang Patel and Yash Panchal, Chaitanya Chevli, Jash Prajapati, Saurav Kheni, Yash Modi | CGPIT |
| CPGT_5 | ANALYSIS AND UTILIZATION OF NANO FLUIDS FOR LOW TEMPERATURE APPLICATIONS | Shobhit Varshney , Hiren Shah ,Vikram Rajai | Prime institute of engineering and Technology & CGPIT |
| CPGT_8 | ANALYSIS OF BOILER BLOW DOWN PROCESS, AIR INGRESS IN CONDENSER AND EFFECT OF COAL MOISTURE IN 210 MW THERMAL POWER PLANT USING SIM SIMULATOR | Mehul Chhowala, Rahul Patel and Jaydeep Patel | SCET & CKPCET, Surat |
| CPGT_17 | A STUDY ON DESIGN AND CRASH ANALYSIS OF AUTOMOTIVE ENERGY ABSORPTION TUBES | Mr. Maurya Manishkumar .H, Dr Chinmay Desai | CGPIT |
| CPGT_19 | A REVIEW ON THE EFFECT OF ADDITIVES ON FUEL PROPERTIES, ENGINE PERFORMANCE AND EMISSION CHARACTERISTICS | Mr. Radheshyam Dudhrejiya, Prof. Darshan Kapadia | CGPIT |
| CPGT_21 | EXPERIMENTAL PERFORMANCE OF MULTISTAGE SOLAR THERMOELECTRIC REFRIGERATION | Brijesh Gadhiya, Harshit Desai and Bhavik Parmar | SSASIT & CGPIT |

TRACK 2 : PRODUCTION TECHNOLOGY

| Sr No. | Title of the Paper | Authors | Affiliated College |
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| CPGT_6 | A NUMERICAL INVESTIGATION ON FORMING BEHAVIOUR OF HOMOGENEOUS BLANKS DURING SINGLE POINT INCREMENTAL FORMING PROCESS | Shalin Marathe, Harit Raval | S. V. National Institute of Technology, Surat, Gujarat, India |
| CPGT_7 | OPTIMIZATION OF PROCESS PARAMETER ON FRICTIONAL STIR WELDING : A REVIEW | Jagadale Vishal H, Lad Megh S , Mishra Siddharth V and Champaneri Gaurang K | RNGPIT, Bardoli, India |
| CPGT_9 | CURRENT RESEARCH AND DEVELOPMENT IN ABRASIVE WATER JET MACHINING (AWJM): A REVIEW | Nikunj Vasoya, Prof. Ketan D. Panchal | GEC Valsad |
| CPGT_10 | EFFECT OF PROCESS PARAMETERS ON DEPTH OF CUT IN ABRASIVE WATER JET CUTTING | Chandresh D. Kanani , Prof. Ketan D. Panchal | GEC Valsad |
| CPGT_11 | ABRASIVE WATER JET MACHINING- AN INTRODUCTION | Neel D. Mahant , Prof. Ketan D. Panchal | GEC Valsad |
| CPGT_12 | ABRASIVE WATER JET CUTTING : A GREEN MANUFACTURING TECHNOLOGY | Prof Ketan D Panchal , Dr A A Shaikh | GEC Valsad & SVNIT Surat |
| CPGT_13 | STATE OF ART RESEARCH AND DEVELOPMENT IN ABRASIVE WATER JET CUTTING | Saurav Patel, Prof Ketan D. Panchal | GEC Valsad |
| CPGT_14 | EFFECT OF CUTTING PERFORMANCE ON SURFACES ROUGHNESS IN ABRASIVE WATER JET CUTTING | Sagar V. Rana, Prof. Ketan D. Panchal | GEC Valsad |
| CPGT_15 | MODELLING OF ABRASIVE WATER JET MACHINING:ARTIFICIAL NEURAL NETWORK APPROACH | Bhavin Desai , Deep Lad, Prof Ketan D. Panchal | GEC Valsad |
| CPGT_16 | SINGLE PARTICLE IMPACT ON TARGET MATERIAL DURING ABRASIVE WATER JET CUTTING: A NUMERICAL STUDY | Vatsal Patel , Prof Ketan D. Panchal | GEC Valsad |
| CPGT_18 | A REVIEW: UNMANNED AERIAL VEHICLE IN ADVANCE AGRICULTURE. | Gaurang Patel, Krunal Gaywala | CGPIT |
| CPGT_20 | DEVELOPMENT OF FFT ANALYZER FOR MEASURING VIBRATION | Mr. Mihir H Patel, Prof. Ankit J Desai | CGPIT |