



NATIONAL CONFERENCE ON EMERGING VISTAS OF TECHNOLOGY IN 21ST CENTURY

14th & 15th April, 2012

Organized By
GUJARAT TECHNOLOGICAL UNIVERSITY,
AHMEDABAD



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Parul Institute of
Engineering & Technology

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The Indian Journal of Technical Education &
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Technical Sessions & Paper Presentation Schedule

Date : 14th April, 2012 (Day-1)

“Futuristic Trends in Mechanical Engineering”

DATE	TIME	TOPIC	VENUE	
14 th April 2012	8:30 to 9:30	Registration & High Tea	Ahmedabad Management Association, Dr. Vikram Sarabhai Marg, University Area, Ahmedabad, Gujarat	
	9:30 to 11.30	Inaugural Function		
	11.30 to 12:30	Lunch Break		
	12:30 to 13:00	TECHNICAL SESSION – I Dr. D P Mishra, IIT Kanpur <i>Microcombustion: Powering the Miniature Machines</i>		
	13:00 to 14:30			<i>Design Methodology & CFD analysis of Rich Burn Quick Mix Lean Burn Micro Combustor</i> Prajapati Swati Vinodchandra <i>Parul Institute of Engineering & Technology, Vadodara</i>
				<i>Performance Evaluation of Cryogenic Oscillating Heat pipe</i> Kamlesh Kiritkumar Mehta, Prof.Nisha V Bora <i>LD College of Engineering, Ahmedabad</i>
				<i>Emission Improvement of Karanja Biodiesel Fueled Diesel Engine</i> A.J.Patel, B.S.Patil, D.C.Gosai <i>SVM Institute of Technology, Bharuch</i>
				<i>Emission Study of Biodiesel Compare to Conventional Diesel for Different Load</i> Mr.Ankitkumar K. Patel, Dr.Pravin P.Rathod, Prof. Arvind S. Sorathiya <i>Govt. Engg. College, Bhuj</i>
				<i>Waste Heat Recovery from Diesel Genset to Run Air Conditioning Plant</i> Hirenkumar Thakorbbhai Patel, Imran M. Molvi, Dr. Sonal Desai <i>Parul Institute of Engineering & Technology, Vadodara</i>
				<i>Cryogenic Oscillating Heat Pipe: Progress and Prospects</i> Kamlesh Kiritkumar Mehta , Prof.Nisha V Bora <i>LD College of Engineering, Ahmedabad</i>
				<i>Heat Transfer Analysis of Automobile Radiator</i> Krunal Suryakant Kayastha, Avdhoot N Jejurkar <i>Parul Institute of Engineering & Technology, Vadodara</i>
				<i>Trapped Vortex Combustor Design Methodology</i> Mr. Smit .V. Thakkar, Dr. Digvijay .B .Kulshreshtha, Mr. Brijesh Dharani <i>Parul Institute of Engineering & Technology, Vadodara</i>
				<i>Modeling of Fuel Processing Unit for Hydrogen Production for PEM Fuel Cell</i> Pritesh Kanaiyalal Jaradi, Dr. Chandramohan Somayaji <i>Indian Institute of Technology, Guwahati</i>
				14:31 to 14:45



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14 th April 2012	14:45 to 15:30	TECHNICAL SESSION – II Dr. Harsha, IIT Roorkee <i>Diagnostic Application of Carbon Nanotube as Bio-Sensor</i>	Ahmedabad Management Association, Dr. Vikram Sarabhai Marg, University Area, Ahmedabad, Gujarat
		TECHNICAL SESSION – II Dr. S H Upadhyay, IIT Roorkee <i>Nonlinear Vibration and Chaos</i>	
	15:30 to 17:00	<i>Single Fiber Friction and Strength Testing-Innovation and Challenges</i> G. A. Gandhi, P. B. Jhala <i>Image Institute of Technology, Matar, Kheda</i>	
		<i>Comparative Investigation of the damped system natural frequency with Bump test and FE modal analysis</i> Anant.J.Sheth, S.S.Pathan <i>LD College of Engineering, Ahmedabad</i>	
		<i>A Review of Design and Development of Concrete Planetary Mixer</i> Amit Kumar S. Patel , Prof. Dhaval A. Patel <i>Shankalchand Patel College of Engineering, Visnagar, Mehsana</i>	
		<i>Development of Test Rig for Measurement of Friction Power - A Review</i> Ajaykumar Ukabhai Kanjhariya, Prof.D U Panchal <i>LD College of Engineering, Ahmedabad</i>	
		<i>Application of Concurrent Engineering for Investment Casting Dies</i> Prof. Gunjan Bhatt <i>Institute of Diploma Studies, Nirma University, Ahmedabad</i>	
		<i>Application of Condition Monitoring on Steam Turbine of Thermal Power Plant – A Case Study</i> Nilesh H. Pancholi, Ranvirgiri D. Goswami <i>Indus Institute of Technology & Engineering, Ahmedabad</i>	
		<i>Stress Variation in Gasketed Flange Joint during Bolt up and Operating Condition</i> Pushpak M. Patel, Piyush P. Gohil <i>C.S.Patel Institute of Technology, Changa</i>	
		<i>Modeling of Defects Formation in HPDC Machine with a Neural Network</i> Sharvil. Shah, Mitul Patel, Dharmendra Dubey <i>Bhagwant University, Ajmer, Rajasthan</i>	
<i>Investigation of Springback Effect in Bottoming for U-Die Bending and V-Die Bending Processes</i> J. R. Shah, S. K. Sharma, B. C. Patel <i>SVM Institute of Technology, Bharuch</i>			
<i>Finite element analysis on the static characteristics of Composite mono-leaf spring</i> Vasava Naran B, Pravin K Trivedi, Prof.R.I.Patel <i>Government Engineering College, Dahod</i>			



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Date : 15th April, 2012 (Day-2)

“Futuristic Trends in Mechanical Engineering”

DATE	TIME	TOPIC	VENUE
	8:30 to 09:00	TEA	
	09:00 to 09:30	TECHNICAL SESSION – IV– Mr. A C Mathur, ISRO Challenges in Space Mechanical Engineering	
		<i>Modeling Vendor Rating in Supplier Selection using Fuzzy Inference System</i> Ketan S. Vaghosi, Dr. M.N.Qureshi <i>Faculty of Technology and Engineering, M.S.U, Baroda</i>	
		<i>Design and Comparative Analysis of Mathematical and Simulation Models in Injection Molding Decision System</i> V.Seralathan, Dr C. Jegadheesan <i>SRS College of Engineering and Technology, Kuppanur, Salem</i>	
		<i>A Parameter Affecting a Surface Roughness in Milling Machine</i> Keyur Patel, Mrs. VidyaNair <i>LDRP ITR, Gandhinagar</i>	
		<i>Quality Function Deployment: Translating Voice of the Customers into Technical Requirements for Product Development</i> Chirag Pravinchandra Vithalani, Dr. M. N. Qureshi <i>Faculty of Technology and Engineering, M.S.U, Baroda</i>	
		<i>Effect of Process Parameters on Tensile Shear Strength of Resistance Spot Welding Process- A Review</i> Chetan R. Patel <i>Shankalchand Patel College of Engineering, Visnagar, Mehsana</i>	
	09:30 to 11:15	<i>Lean Manufacturing Initiatives to Ensure TQM</i> Binod Kumar Singh, Dr Chandan Bhar, Dr Visvesvaran Pandurangan <i>GSM Vidya Niketan Institute Of Engg. & Tech. Aurangabad</i>	
		<i>Facility Layout Analysis : A Case Study</i> Mr. A. M. Patel, Mr. H. G. Shah <i>SVM Institute of Technology, Bharuch</i>	
		<i>A Review of Process Parameters of Hot Machining for Different Materials</i> Nirav M. Kamdar, Prof. Vipul K. Patel <i>Shankalchand Patel College of Engineering, Visnagar, Mehsana</i>	
		<i>An Application of Value Stream Mapping to Enhance the Runtime in the machine shop</i> Mukhtar R Sama, Dr. M. N. Qureshi <i>Faculty of Technology and Engineering, M.S.U, Baroda</i>	
		<i>A Framework for Maintenance Performance Measurement and its Bench Marking using Data Envelopment Analysis in Supply Chains</i> Georgy Kurien Powathilath, Dr. M. N. Qureshi <i>BIT, Varnama, Vadodara</i>	
	11:15 to 12:00	LUNCH BREAK	
15 th April 2012			Ahmedabad Management Association, Dr. Vikram Sarabhai Marg, University Area, Ahmedabad, Gujarat



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15 th April 2012	12:00 to 12:30	TECHNICAL SESSION-V – Dr. M Hassan, JMU New Delhi <i>Production Optimization of Biodiesel using Thumba oil and its Performance Analysis</i>	Ahmedabad Management Association, Dr. Vikram Sarabhai Marg, University Area, Ahmedabad, Gujarat
	12:30 to 14:15	<i>3D Computational Study of Heat Transfer through Tube Bundles with Triangular Pitch of Shell-and-Tube Heat Exchanger</i> Tejal M. Rana, Vivek C. Joshi, Avdhoot N. Jejurkar <i>Parul Institute of Engineering & Technology, Vadodara</i>	
		<i>Study of the Effect of Coil Step on Heat Transfer Coefficient and CFD Analysis of Helical Coil Heat Exchanger</i> Jayesh B. Khunt, Prof.M.I.Vyas <i>LD College of Engineering, Ahmedabad</i>	
		<i>Design Methodology of internally mixed Pressure Swirl Atomizer for Micro Gas Turbine Combustion Chamber</i> Ashish A Prajapati, Digvijay B. Kulshreshtha, Brijesh P Dharani <i>Parul Institute of Engineering & Technology, Vadodara</i>	
		<i>Enhancement in the Design of Combustion Chamber Swirler</i> Bhavin K Shah, Ashokkumar Kukabhai Dhakiya, Arvind.S.Mohite <i>Faculty of Technology and Engineering, M.S.U, Baroda</i>	
		<i>Study of Performance Comparisons of Integrated Gasification Combined Cycle Power Plant</i> Devang Thakar, Avdhoot Jejurkar, Dr.Nirvesh S. Mehta, Minesh Patel <i>Parul Institute of Engineering & Technology, Vadodara</i>	
		<i>A Review: Modeling and The Performance of Tubular Solid Oxide Fuel Cell</i> A. D. Patel, V. Y. Gajjar, Araniya K.K. <i>SVM Institute of Technology, Bharuch</i>	
		<i>A Review of Stirling Engines and Low Temperature Differential Stirling Engines</i> Mohsin J Dadi, Prof. Imran M Molvi, Prof. Alpesh V Mehta <i>Parul Institute of Engineering & Technology, Vadodara</i>	
		<i>Performance and Emission comparison of 4-Stroke Multi-Cylinder CI-Engine using EGM-Diesel Blend and Diesel as fuel</i> Simit B. Prajapati, Pravin P. Rathod, Nikul K. Patel <i>Govt. Engg. College, Bhuj</i>	
		<i>Performance and Emission Characteristics of Four Cylinder Four Stroke Compression Ignition Engine Fueled With Coconut Oil-Diesel Fuel Blend</i> Jujara Mohsin M, Dilip S Kanetkar <i>Parul Institute of Engineering & Technology, Vadodara</i>	
14:15 to 14:30	TEA BREAK		



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DATE	TIME	TOPIC	VENUE
15 ^h April 2012	14:30 to 15:00	TECHNICAL SESSION-VI – Dr. Rahul Chhibber, IIT Rajasthan <i>Bimetallic welds: Structural Integrity Issues Related to Thermal Fatigue</i>	Ahmedabad Management Association, Dr. Vikram Sarabhai Marg, University Area, Ahmedabad, Gujarat
	15:00 to 16:30	<i>Analysis of Heat Transfer in Liquid Nitrogen Dewar Vessel with Vacuum Insulation</i> Vimalkumar P. Salot, Prof. R.K.Patel <i>LD College of Engineering, Ahmedabad</i>	
		<i>Design of Lean Premixed Prevaporized Combustion Chamber Using Kerosene as a Fuel</i> Patel Amir D, Gosai Dipak C., Dr. Digvijay Kulshreshtha <i>SVM Institute of Technology, Bharuch</i>	
		<i>Reduction in Make-up water of Cooling Towers</i> Harshal T Shukla, Devesh A Vankar, Prof. Imran M Molvi <i>Parul Institute of Engineering & Technology, Vadodara</i>	
		<i>Stress Analysis of Pressure Vessel of Hemispherical and Ellipsoidal End Connection Using Finite Element Analysis</i> Kamlesh R. Parmar, Adil A. Khan <i>Parul Institute of Engineering & Technology, Vadodara</i>	
		<i>Flow Induced Vibration in Shell and Tube Heat Exchanger</i> Chirag J. Patel, Adil A. Khan <i>Parul Institute of Engineering & Technology, Vadodara</i>	
		<i>Design Validation of Shell and Tube Heat Exchanger by HTRI Xchanger Software</i> Nirmal S. Parmar, Adil A. Khan <i>Parul Institute of Engineering & Technology, Vadodara</i>	
		<i>Design Methodology of Wiped Film Evaporator (WFE) For Herbal Products</i> Vijaykumar C Patel, Prof. Alkesh Mavani <i>L.D.R.P Institute of technology & Research, Gandhinagar</i>	
		<i>Performance Comparison of 4-Stroke Multi- Cylinder CI-Engine Using Neem Biodiesel and Diesel as Fuel</i> Nityam P. Oza, Dr. Pravin P. Rathod, Prof. Nikul K. Patel <i>Govt. Engg. College, Bhuj</i>	
16:31 to 17:00	VALEDICTORY FUNCTION		