

Conference Schedule
Venue: Block VI, LT-2, IIT Delhi

December 11, 2009	
8.45-9.30	Registration
9.30-10.00	Inauguration: Chief Guest <i>Mr. Anand Kumar</i> , Director (R&D), Indian Oil Corporation Limited, R&D Center
10.00-10.45	Keynote Lecture: "Fundamentals of lubrication and design of lubricants" by <i>Prof. S. V. Kailas</i> , Indian Institute of Science Bangalore
10.45-11.15	Tea/Coffee Break
11.00-13.00	Technical session on: Advanced Material Testing and Modeling. Chairperson: Mr. V. Martin
	Characterization of Self Lubricating Cutting Tool Material for Automotive Application <i>N Vikram Manoj Kumar, S Senthilvelan & P S Robi</i>
	Development of a Test Rig for Experimental Investigation of Oil-Temperature in Some Non-Circular Journal Bearing Profiles <i>Rakesh Sehgal*, Amit Chauhan and Rajesh Kumar Sharma</i>
	Analysis of Sliding Behavior of Structural Steel EN 24 against Bearing Steel EN 31 under Fretting Load Conditions <i>Ramesh .R, Sridharan .V, Gnanmoorthy .R</i>
	Friction and Wear Characteristics of Microwave Sintered Copper-TiC-Graphite Hybrid Metal Matrix Composites <i>Rajkumar.K, Chandrakanth Reddy and Aravindan.S</i>
	Wear Characterization of Al/17wt% Si Functionally Graded Material. <i>Kiran Aithal S, Narendranath S, Vijay Desai, P G Mukunda</i>
	Dry Sliding Wear Behavior of A356/SICP-GR Composites <i>K.N.Bharath, Mahammed Shafi, Girish Kumar, Ranjana Kabnur, Sandeep.M.K</i>
	Dry Sliding Wear Behavior of Hyper Eutectic Al-Si Alloys <i>B.M.Angadi, S.A.Kori, M.I.Sakri, V.V.Nagathan</i>
	An Investigation of Friction between Piston Ring and Cylinder Wall of I.C. Engines <i>J. M. Patel, B.M.Sutaria, D.V. Bhatt</i>
	Techniques for Measurement of Minimum Oil Film Thickness in a PRA System: A Review <i>Bulsara M A, Mistry K N, Bhatt D V</i>
13.00-14.30	Lunch Break
14.30-16.00	Technical session on Bearings & Brakes. Chairperson: Prof. S. V. Kailas
	Evaluation of Approaches For material Selection In Hydrodynamic Bearing <i>Pranab Samanta, Barun Chakrabarti* and S.V.Herwadkar</i>
	Volvo Bus Disc Brake Testing on a Brake Inertia Dynamometer <i>Mukesh Kumar*, Sidharath Mallik and Jayashree Bijwe</i>
	Development of test rig and experimental study to measure piston ring assembly friction under different variables <i>Mr. B.M.Sutaria*, Dr. D.V. Bhatt, Dr. K.N. Mistry</i>
	Investigation on the Effect of Roller Follower Material on the Contact Behaviour of Stainless Steel Cam for Automotive Applications Using FEM <i>R.Ramesh, M.Prem Ananth, K. Suthan Kumar</i>
	Theoretical Modeling of Piston Ring Assembly <i>Ganesh B. Aware, B. M. Sutaria, D. V. Bhatt</i>
	Stability Analysis of Floating Bush Ball Bearing (FBBB) <i>T.V.V.L.N. Rao</i>
	Literature Review on Friction Forces and Piston Ring Dynamics <i>Sachinkumar B. Shinde, B. M. Sutaria, D. V.Bhatt</i>
	Journal Bearing Test Facility to Perform Seizure Failure Tests <i>Hombe Gowda*, M. R. Sridhar</i>
	Literature Review on Piston Ring Lubrication <i>Ganesh B. Aware, B. M. Sutaria, D. V. Bhatt</i>
16.00-16.30	Tea/Coffee Break
16.30-18.30	Technical session on Smart material and Novel application. Chairperson: Dr. Harish Hirani
	Selection Of Control Force Trajectory For Smooth Release Of Mechanical Actuators With Boundary Friction <i>Kartikeya Tripathi, Harshverdhan Mishra, Jitendra Yadav, Lokesh Bajpai</i>
	Physics Based Compliance Matrix Approach To Capture Global Housing Deformations In Elasto-hydrodynamic Lubrication <i>B. Kachhia* And A. Shekhar</i>

	Contact Analysis Of Flexible Jaw Coupling Using Finite Element Method	<i>R. Ramesh, V. Gurusamy, S. Gouthaman</i>
	Damping Factor Modulation By Shot Penned AISI 304 Austenitic Stainless Steel	<i>Lakhwinder Singh, R.A. Khan, And M.L. Aggarwal</i>
	Evaluation & Optimisation Of Fatigue Life Of Serration Shaft & Lift Arms For Three Point Linkages Of Agricultural Tractor	<i>Ganesh Jadhav, Ritesh Singh, Jay Govind Trivedi, Neeraj Vij</i>
	Tribological Behavior of Magneto-Rheological (Mr) Fluids	<i>V.K. Sukhwani, Rahul Sakarey, Pallavi Kanungo,</i>
	Advance Fifth Generation Steel (Cr-Mo-V)	<i>S P Ghiya, D. V. Bhatt</i>
	E-Terrain Technologies - A Greener Tomorrow	<i>Siddharth Sharma</i>
December 12, 2009		
9.00-9.45	Keynote Lecture on Lubricating oil base stock-Significance of Improved Quality by Dr. Mookken, Indian Oil Corporation Limited, R&D Center	
9.45-11.00	Technical Session on Lubricants and Additives. Chairperson: Dr. R. T. Mookken	
	Influence of Unsaturation on Boundary Lubrication Properties of Few Oxidized Neat Vegetable Oils.	<i>Jagadeesh K. Mannekote and Satish V. Kailas</i>
	What Factors Affect Noise Levels of Greases?	<i>N. K. Pokhriyal, S. Pappy, C. Kannan, E. Sayanna, R. T. Mookken, K. P. Naithani, R. K. Malhotra and Anand Kumar</i>
	Mechanical and Tribological behavior of Glass-Epoxy Composites Modified using XNBR Elastomer	<i>Vivek Kumar, A.K. Singhal and J. RamKumar</i>
	Effect of Phosphorous Addition on the Tribological Wear Behavior of Hyper Eutectic Al-Si Alloys.	<i>B.M.Angadi, S.A.Kori, M.I.Sakri, V.P.Girisagar</i>
	Lubricant Additives: Imp. Environmental Health Aspects	<i>Chandrabhan Prajapati</i>
11.00-11.30	Tea/Coffee Break	
11.30-13.00	Technical Session on I.C. Engine.	
	Effect of Top Compression Ring Profile on the Fuel Efficiency of IC Engine	<i>R. K. Pandey*, N. Tandon, & R. Chaudhary</i>
	Measurement of Piston Ring Wear in an I C Engine: A case study	<i>M A Bulsara*, D V Bhatt & K N Mistry</i>
	Development of Appropriate Technology for Escorts Engines to Meet Forthcoming Bharat TREM-3a Emissions	<i>Rajneesh Agarwal, Vikas Dhiman, V P Singh, Sanjay G, Anubhav Tyagi</i>
	Experimental Study And Analysis of Temperature Variation in Multicylinder Motorized Engine Test- Rig Under Different Coolant - A Case Study	<i>Atul.S.Shah & D.V.Bhatt</i>
	An Investigation of Friction between Piston Ring and Cylinder Wall of I.C. Engines	<i>J. M. Patel, B.M.Sutaria & D.V. Bhatt</i>
	Fuel Cells – The Next Generation Fuel for Automotives	<i>M. R. Mali</i>
13.00-14.30	Lunch Break	
14.30-16.00	Technical session on Condition Monitoring. Chairperson: Mr. B. S. Rawat	
	Condition Monitoring – An Effective Tool in Machine Maintenance	<i>V. P. Deshmukh</i>
	Condition Monitoring of Vegetable Oils Used in a 4 Stroke Engine as Lubricants	<i>Jagadeesh K. Mannekote, Satish V. Kailas & R.T. Naik</i>
	Vibration Monitoring of a Hydraulic Press by Finding RMS Velocities	<i>UM Reddy Paturi, YVD Rao, & AVSSKSS Gupta</i>
	Condition Monitoring of Helical Gear Box	<i>P. Lokesh Kumar Reddy, Harish Hirani, & A.K. Darpe</i>
	Simulation and Analysis of Friction Forces at PRA And Piston Ring Dynamics	<i>Sachinkumar B. Shinde, B. M. Sutaria, & D. V.Bhatt</i>
	An experimental study of wear process and mechanism of Mechanical face seal	<i>S. S. Goilkar, Anirban Guha, & Harish Hirani</i>
16.00-16.45	Valedictory session: Announcement of Best Paper Award	
16.45-17.30	Tea/Coffee & Lab Visit	