

17th February 2014

**Registration at Jaypee Palace Hotel.
(2.00 pm to 6.00 pm)**

18th February 2014

**Inauguration
(9.00 am to 10.30 am)**

**Asiatrib Country Session
(10.30 am to 11.30 am)**

Inauguration of Exhibition

High Tea Break

(11.30 am to 12.00 noon)

Plenary Session I

(12.00 noon to 1.30 pm)

Lunch

(1.30 pm to 2.00 pm)

Technical Session - I

(2.00 pm to 3.45 pm)

I-A : Bearing Tribology - I	I-B : Automotive Tribology - I	I-C : Contact Mechanics & Friction -I	I-D : Lubricants & Additives - I	I-E : Surface Treatment & Coatings - I	I-F : Tribology in Design & Manufacturing - I
TSI914544	TSI914547	TSI914690	TSI914660	TSI914593	TSI914669
Satish C. Sharma, Arvind K. Rajput	Raffaele Gilardi, Luigi Alzati, Davide Sarocchi, Philippe Dufrénoy, Jayashree Bijwe	Bhavesh Kachhia, D Nelias	Taiki Komatsu, Hiroyoshi Tanaka, Joichi Sugimura	B. Subramonian	Ajay Kumar, Satish V.Kailas
A study of Orifice compensated geometric imperfect four pocket hydrostatic Journal bearing Operating with Micropolar Lubricant	Green automotive brake pads based on graphite powders	Transient change of film thickness in EHL contact with surface defect	Effects of environmental gas on decomposition of lubricant and hydrogen generation at nascent iron surface	Molybdenum-Di-Sulphide For Space Tribological Applications-A Review	Fabrication and Property of In-situ Cross Linked Polymer Derived Ceramics (PDC) Reinforced Copper Matrix Composites by High Shear Powder Consolidation
TSI914661	TSI914582	TSI914709	TSI914694	TSI914524	TSI914644
Hiroyoshi Tanaka, Kakeru Enami, Masaaki Hashimoto , Joichi Sugimura	R. Elo , S. Jacobson	Deepak Kumar	J. D. B. de Mello , M. M. de Oliveira Jr	A. Amanov, S. Sasaki J.H. Kim , Y.S. Pyoun	Soyoung Jung , Woo Yul Yang , Hong Jin Kim, In-Ha Sung
Effects of hydrogen on structural change and rolling contact fatigue of steel	Intake valve system in heavy duty combustion engines – A wear mechanism study	Role of ambient humidity on friction of oil lubricated steel	Solid Lubrication in Fluid Film Lubrication	Effectiveness of Ultrasonic Nanocrystalline Surface Modification on The Mechanical, Tribological And Structural Properties of Sintered Ceramics	Effects of Various Process Parameters on the Chatter Scratch Characteristics in Chemical Mechanical Polishing
TSI914511	TSI914704	TSI914572	TSI914503	TSI914533	TSI914611
Ayush Jain, G. Rajaram, Arindam Ghosh	Usman Chaudhri, Kendrick Aung	Masanobu Ito, Hidekazu Takahashi, Takashi Yanagisawa	Shubrajit Bhaumik , S. Prabhu	Jill Sundberg, Harald Nyberg, Erik Särhammar, Tomas Nyberg, Staffan Jacobson, Ulf Jansson	Nirmal S Kalsi, Rakesh Sehgal, Vishal S Sharma
Tribological Behavior of WC/C coated bearing steel	Effects of ViscoElasticity on piston Secondary motion and skirt Lubrication in the Engine Initial Start up	Development of narrow face non-cooling mechanical seal	Carbon Nano Tube – a new generation nano additive for lubricants	Tribological and chemical characterization of low-friction W-S-N coatings	Optimization and Modelling of a Process using Cryogenically Treated Tungsten Carbide Cutting Tool inserts in Turning

TSI914578	TSI914656	TSI914599	TSI914587	TSI914537	TSI914658
M. H. Lee, J. H. Lee, G. H. Jang	Jin Seok Ryu, Yong Hwi Kim, In-Ha Sung	Sperka P., Krupka I., Hartl M.	Sarah Krol	Hary Goonasekerak, Ryo Tsuboi, Amanov Auezhan, Shinya Sasaki, Young-Sik Pyun	Soo Yeon Jang, Yong Hwi Kim, In-Ha Sung
Stability analysis of a whirling rigid rotor supported by FDBs due to the effect of rotating or stationary grooves	Prediction of the Drag Torque in an Automotive Wet Clutch with Respect to Various Parameters	On EHL Film Breakdown Caused by Roughness Feature	International Regulations for Food Grade Lubricants	Effect of Nano-crystalline surface layer (NSCL) on the tribological properties of Tungsten Carbide (WC)	A Study on the Sealing Effectiveness of a Cryogenic Seal Using Finite Element Analysis for Performance Enhancement

Tea Break
(3.45 pm to 4.00 pm)

Technical session - II
(4.00 pm to 5.45 pm)

II-A : Bearing Tribology - II	II-B : Bio Tribology - I	II-C : Wear Mechanism - I	II-D : Lubricants & Additives - II	II-E : Surface Treatment & Coatings - II	II-F : Nano Tribology - I
TSI914638	TSI914534	TSI914702	TSI914526	TSI914682	TSI914517
Tao He, Ning Ren, Dong Zhu, Jiaxu Wang	Zhendong Dai, Zhouyi Wang, Aihong Ji, Qiang Xin	Dawit Zenebe Segu, Si Geun Choi, Seock Sam Kim	Nobuyoshi Ohno, Hirohito Mori, Toshifumi Mawatari, Bo Zhang, Bunji Ono, Sobahan Mia	Tomas Polcar, Albano Cavaleiro	Lev Rapoport
Plasto-Elastohydrodynamic Lubrication (PEHL) in Point Contacts for Surfaces with Three-Dimensional Sinusoidal Waviness and Real Machined Roughness	How do geckos increase the attachment reliability by modulating the friction forces	Sliding Wear behavior of Bulk Metallic Glass	Prediction of Pressure-Viscosity Coefficient of Environmentally Friendly Vegetable Oils	Towards frictionless surface: self-adaptive thin films	Inorganic Fullerene-Like Nanoparticles: Superior Materials for Enhancing Lubrication under Extreme Conditions
TSI914541	TSI914696	TSI914699	TSI914561	TSI914622	TSI914538
Yinping Jin, Xintao Xia, Ming Qiu	Atsushi Suzuki, Saori Sasaki, Taegu Noh, Kensuke Ota, Takaaki Shiina, Kazuhiro Nakashima, Seido Yarimitsu, Teruo Murakami	Maros, B. M., Németh, A. K., Kailer, A., Schröder, C., Károly, Z., Tapasztó, O.	Anthony E. Somers, Bhawna Khemchandania, Patrick C. Howlett, Jiazeng Sun, Douglas R. MacFarlane, Maria Forsyth	Sanjeev Katoch, Rakesh Sehgal, and Vishal Singh	Rashi Gusain, Harshal P. Mungse, Om P. Khatri
Parameter estimation of three-parameter weibull distribution based on bayes method	Friction and Wear of PVA Hydrogels with Higher Mechanical Strength	Comparison of the wear behaviour of HIP and SPS sintered Si3N4/MLG nanocomposites by pin-on-disc tests	Ionic Liquids as Anti-Wear Additives	Effect of cryogenic treatment on micro-hardness, wear behavior and microstructure of hot die steel AISI-H11.	Graphene Wrapped Copper Oxide Nanomaterials: Synthesis, Structural and Tribological Properties
TSI914545	TSI914543	TSI914506	TSI914566	TSI914629	TSI914562
Arvind K. Rajput, Satish C. Sharma	D. P. Mondal, A. K. Jha, M. S. Yadav, J. Dutta Majumdar	S K Jha, S Kumar, K Prakash, R Topno, PP Sengupta	Kalyani, Vinay Jaiswal, Rashmi Bala Rastogi, Devendra Kumar	W.H. Kao, Y. L. Su, J.H. Horng, S. H. Yao, H.J. Tsai	Arti Yadav, M. S. Bobi
Effect of undulations of the journal on the performance of multi-recess conical hybrid journal bearing	Wear and Corrosion Behavior of Cenosphere Dispersed Ti Matrix Composite Developed by Powder Metallurgy Route	Wear characterization of various grades of rail steel developed at SAIL	Synthesis and Tribological behavior of eco-friendly Schiff base as an additive for Zero-SAPS and their theoretical studies	Tribological properties of a-C:H:Zr-x coatings with various Zr target currents using unbalanced magnetron sputtering system	Tribological Properties of Nanoporous Alumina Film
TSI914559	TSI914556	TSI914509	TSI914583	TSI914659	TSI914574
G. Saravanakumar, L. Ravikumar, H.P. Jagadish	Martin Vrbka, Ivan K upka, Martin Hartl, Ji i Gallo	Anil Payyappalli Mana, Rajesh Kumar, A. Sethuramiah	Seung-Taek Kim, Seung-Mok Kim, Se-Min Park, Jung-Suk Lee, Tae-Hee Park, Jeong-Hoon Lee, Young-Ze Lee	Remigiusz Michalczewski, Witold Piekoszewski, Michal Michalak, Marian Szczerek, Jan Wulczynski	Ravindra Kumar, Sujeet K. Sinha, Raju K Gupta
Effect of Temperature on the Dynamic Characteristics of Magnetorheological Fluid Long Squeeze Film Damper	Measurement of thin films and friction in bovine serum lubricated artificial hip joints	An Investigation into the Influence of Initial Roughness on the Steady-State Wear Of AISI 52100 Steel in Dry Contact	The Tribological Behavior of Lubricants with Nanodiamond	Tribological characterization and wear mechanisms of AlTiN PVD coating designed for high temperature applications	SiO2 Layer Modification: PFPE Encapsulated in Immobilised Dendrimer to Enhance Wear Life

Conference Dinner with Cultural Programme
(7.00 pm onwards)

19th February 2014

Plenary Session II
(9.00 am to 11.00 am)

**Tea Break
(11.00 am to 11.15 am)
Business Meet - I
(11.15 am to 12.45 pm)**

**Lunch
(12.45 pm to 1.15 pm)**

**Technical session - III
(1.15 pm to 3.00 pm)**

III-A : Bearing Tribology - III	III-B : Automotive Tribology-II	III-C : Tribo-Testing-I	III-D : Lubricants & Additives-III	III-E : Surface Treatment & Coatings-III	III-F : Tribology in Metalworking-I
TSI914628	TSI914650	TSI914664	TSI914516	TSI914703	TSI914675
Benyebka BOU-SAID, Mathieu GARCIA, Jérôme ROCCHI, Grégory GRAU	M. S. Prabhudev , K. Venkateswarlu, S. A. Kori	Debashis Puhan, Jayshree Bijwe	Alexey Moshkovich, Vladislav Perfilyev, Louisa Meshi, Shmuel Samuha, Sidney Cohen, Hagai Cohen, Alex Laikhtman, Lev Rapoport	Ronen Kreizman, Alon Shapira, George Diloyan	C. Courbon, M. Fallqvist, J. Hardell, R. M'Saoubi, Braham Prakash
Thermo-Hydrodynamic Study of Refrigerant-Lubricated Bearing	Dry sliding wear performance of A356 alloy with minor additions of Magnesium	Influence of solid lubricant and process of dispersion in the composite on performance properties Polyaryletherketone (PAEK) composite	Dislocation structure and nanohardness under friction of Cu samples in the lubrication conditions	New anti-friction/anti-wear coatings based on WS2 fullerene-like nanoparticles (IF WS2)	Influence of temperature and surface topography on friction and adhesion tendency of PVD TiAlN coating
TSI914596	TSI914626	TSI914515	TSI914594	TSI914606	TSI914504
Chippa Shriniwas , M Sarangi	Zahrul Fuadi , Takanori Takeno ,Kosuke Ito, Koshi Adachi ,Toshiyuki Takagi ,Tajuddin Muhammad	Harald Nyberg, Martina Grandin, Urban Wiklund, Staffan Jacobson	M.Amrita, R.R.Srikant, AVSitaramaraju, P Vamsi Krishna	Kyoung-Sup Kim, Jin-Sun Kim, Young-sung Kim , Young-Ze Lee	Liliana Russo, Alberto Secondo Seghesio
Influence of Longitudinal Roughness on the Elastohydrodynamic Lubrication Performance of Roller Bearings	Friction and wear of stainless steel lubricated by palm biodiesel	A method for tribological evaluation of gradient surfaces	Experimental evaluation of nanofluid in Minimum Quantity Lubrication	Friction and wear of ferromagnetic materials with different types of coating	Bacterial Contamination Assessment in Water Miscible Metalworking Fluids and Water by Bioluminescence
TSI914610	TSI914513	TSI914648	TSI914620	TSI914668	TSI914564
Tae-Jo Park	Alan Hase, Kazuho Mizuta, Yukio Nishizawa, Koji Sugimoto, Katsuya Okayama	Shin-Sung Yoo, Dae-Eun Kim	Shubhamita Basu	M.Ananth Kumar, Masahiro Fujii	Rashmi Ranjan Sahoo, N. C. Murmu
Effects of Viscous Heating on the Flow Characteristics of Hydraulic Spool Valve with Metering Notches	Basic Research on Evaluation of Frictional Properties for Brake Pad: Identification of Tribological Phenomena by In-situ Observation and AF Measurement Method	Considerations in Design and Fabrication of a MEMS Tribotester	Measuring and Improving Energy Efficiency of a Hydrostatic Drive System	A study on tribological characteristics of plasma CVD DLC coatings in sliding contact	Understanding the role of emulsifiers defined by chemistry and structure to the performance of metal working nanoemulsions.
TSI914577	TSI914707	TSI914548	TSI914705	TSI914678	TSI914715
C. H. Kang, G. H. Jang, K. M. Jung ,Y. H. Jung	Reji Mathai, A Chausalkar, Sanker Bhadhavath, Lokesh Kumar, Himanshu Padia, A K Harinarain, Shyam Singh , A K Sehgal, Dr. B Basu	Viacheslav N. Khovanskiy	Michael A. Müller, René Koschabek, Christoph Wincierz	Mohit Sharma, Jayashree Bijwe	Noura el Mehad
Coupled Analysis of the Fluid Dynamic Bearings with Recirculation Channel by Solving the Reynolds and Hagen-Poiseuille equations	Role of tribological studies in predicting the critical characteristics of an engine oil in automotive lubricant testing	Prospects for the use of the complex of tribological Researches «ITRIB-System»	Modern Gear oil Formulations for Wind Turbine Transmissions	Studies on Carbon fiber reinforced polymer composites against coated steel surfaces.	Preparation of additives as corrosion inhibitors/ antioxidants for high quality emulsifiable oils of metalworking fluids

**Tea Break
(3.00 pm to 3.15 pm)
Technical session - IV
(3.15 pm to 5.00 pm)**

IV-A : Bearing Tribology – IV	IV-B : Bio Tribology-II	IV-C : Wear Mechanisms-II	IV-D : Contact Mechanics & Friction - II	IV-E : Special topics in Tribology	IV-F : Nano Tribology-II
TSI914685	TSI914676	TSI914552	TSI914645	TSI914502	TSI914677
Tae-Jo Park, Yo-Han Jeong , Joon-Oh Lee	Prashant K Sharma, Roel Kuijer	Magnus Heldin, Urban Wiklund	Jane Wang, Wayne W. Chen, Hirotaka, Miwa, Toshikazu Nanbu, Yoshitaka Uehara Dong Zhu	Wilfried J. Bartz	Sujeet K. Sinha, Prabakaran Saravanan
Thermohydrodynamic Lubrication Analysis of a Surface Textured Parallel Thrust Bearings	An in-vitro model to test cartilage tribology against biomaterials	Scratch testing of wood for mimicking the early stage of the wood defibratation	Simulating Sliding-Electrical Wear of Materials	Tribological Problems in Wind Energy Power Plants and Their Solutions	SU8-PFPE composite for microsystems applications

TSI914633	TSI914621	TSI914615	TSI914514	TSI914657	TSI914592
XU Yong-zhi, XIA Xin-tao	Shubhamita Basu	Prasanta Kumar Padhi, Alok Satapathy	Yu Ju Lin	Hemant Kumar, S. Vijayaraghavan, Anshuman Dube, M. Shanmugavel, S.K. Albert, B. Babu, A.K. Bhaduri, K.K. Rajan, T. Jayakumar	Prashant Pendyala, M.S.Bobji, Giridhar Madras
The Evaluation of Rolling Bearing Friction Property	Eco-friendly and Performance: Finding the Biohydraulic Fluid with the Right Balance	Tribo-performance Analysis of Coke Crushing Rolls Using Taguchi's Design of Experiment for Optimisation of Sinter Quality	The influence of Poisson's ratio on the adhesive contact between an elastic sphere and a rigid half-space	Design and Development of High Temperature Pin-on-Disc Tribometer for Materials Testing in Liquid Sodium Environment	Evolution of surface roughness in chemical Etching
TSI914571	TSI914700	TSI914651	TSI914600	TSI914616	TSI914649
Eshan Singh, G. D. Thakre, P. K. Arya, B. M. Shukla	Nicholas Randall, Jiri Nohava	Rajesh Kumar, P. C. Mani, P. M. Anil, A. Sethuramiah	Milan Omasta, Josef FRÝZA, Martin HARTL, Ivan K UPKA	B.Ravinaik Banoth,Dr. G.V.S.Nageswara Rao,Dr.Deepak kumar Guptha,Dr.Amit Bhattacharjee	Chang-Lae Kim, Dae-Eun Kim
Prediction of useful life of ZrO2 bearings using Monte-Carlo Simulation technique.	Microtribology on soft materials with new instrumentation methods	Chemical wear modelling - its relevance to eco-friendly lubricants	An experimental study of friction and wear in lubricated wheel-rail contact	The Effect of boron and carbon addition on microstructure and microhardness, tensile properties of high strength Ti-15-3 alloys.	Investigation of Tribological Characteristics of Nanowires Coatings
TSI914630	TSI914686	TSI914691	TSI914602	TSI914505	TSI914613
Sanjay Bhansali, Pradeep Kumar Agrawal, Shivnath Ram, Arindam Gangopadhyay	Myo Minn , Motoyasu Kobayashi, Hiroshi Jinnai, Hirohmi Watanabe, Atsushi Takahara	B. V. Manoj Kumar, V. Madhusekhar, Young-Wook Kim	E.V. Torskaya, F.I. Stepanov	Mark Alexander, Mark Stone, Mukesh Gupta, J.R. Khona	Chacko Preno Koshy, P K Rajendrakumar, Manu V Thottackkad
An attempt for Green Tribology through Oil Patch Test in conjunction with Ferrography and Wear Debris Analysis	Effect of water swelling on the tribological properties of PMMA spin-cast and brush in aqueous lubrication	Sliding Wear of SiC Ceramics Sintered with 1 wt% Additives	Friction contact of a slider with viscoelastic half-space	A New Approach to Improve Thermal Efficiency and Increase Engine Durability - Non Aqueous Radiator Coolants	Analysis of Tribological and Thermo-Physical Properties of Surfactant-Modified Vegetable Oil-Based Cu Nano-Lubricants at Elevated Temperatures - An Experimental Study

Poster Session : 19th Feb, 2014. (9.00 am to 5.30 pm)

Sr. No	Abstract No	Name	Session Name	Title
1	TSI914671	Aranganathan N , Jayashree Bijwe	Automotive Tribology	Cyanate-ester resin as a binder for NAO Friction Material – Studies on influence of amount on tribo-properties
2	TSI914680	Umesh Wazir	Automotive Tribology	HYDRODYNAMICS OF LINEAR MOVING ELASTIC SEALS
3	TSI914527	Swarup Paul, Bijan Sarkar, P.K.Bose	Tribology in Renewable Energy	Performance Evaluation and Wear analysis of a Compression Ignition Engine operating with straight vegetable oil and diesel blend
4	TSI914554	Saurabh K Yadav, Satish C Sharma	Bearing & Gear Tribology	Combined influence of tilt on the performance of hybrid thrust bearing system operating with non-Newtonian Lubricants
5	TSI914560	G. Saravanakumar, L. Ravikumar, H.P. Jagadish	Bearing & Gear Tribology	Damping and Stiffness Characteristics of Grease Based Squeeze Film Damper
6	TSI914647	Tetsuzo Hatazawa, Takahisa Kawaguchi	Bearing & Gear Tribology	Performances of needle roller thrust bearing -Effects of raceway texture-
7	TSI914607	Nitin Sharma	Bearing & Gear Tribology	Isothermal Investigations of a Porous Journal bearing by CFD analysis
8	TSI914693	Sandeep Sonia, D.P.Vakharia	Bearing & Gear Tribology	Steady state behaviors of an elliptical journal bearing
9	TSI914673	Anant.C.Kulkarni, D.M.Kulkarni, Deepak H. veeregowda, Anshuman Dube	Bio Tribology	Wear characteristics of X linked UHMWPE material using conventional tribometers and digital light spectrometry
10	TSI914589	Soma Dalbehera	Bio Tribology	Study on effect of stacking sequence on the tribological property of woven jute-glass fiber reinforced epoxy composite
11	TSI914711	Chandu S. Madankar, S. N. Naik	Bio Tribology	Green synthesis of biolubricants from castor oil
12	TSI914684	K N V Subrahmanyam	Condition Based Maintenance System	Ferrography provides an early warning of Machinery Components Abnormal Wear Modes

13	TSI914521	Manohar Chidurala	Condition Based Maintenance System	CONDITION BASED LUBRICATION PROGRAM USING ULTRASOUND MONITORING TECHNOLOGY
14	TSI914557	Rishikesh Kumar, Shrikant Bhawe	Condition Based Maintenance System	Reliability of Milling Plant in Thermal Power Stations
15	TSI914573	Amarnath Kosgi, S.S. Kale, G. Gouda, K. Tamilmani	Condition Based Maintenance System	"In-situ oil and wear particle analysis as a prognostic tool for condition based health monitoring of military aero-engines"
16	TSI914631	Chiranjn Mandal, R R Prasad, P P Sengupta	Condition Based Maintenance System	Incipient fault detection of rolling element bearing running at slow speed
17	TSI914632	K. Bandyopadhyay, R.B.Choudhury, C.Mondal, R.R.Prasad, P.P.Sengupta	Condition Based Maintenance System	Application of oil condition monitoring techniques for improving critical equipment availability in steel plant
18	TSI914639	S.V.Tope, R.S.Pithore, U.Bhattacharjee, Kamal Mukherjee	Condition Based Maintenance System	INVESTIGATION OF REDUCING CAVITATION-EROSION IN ENGINE CYLINDER LINERS OF HIGH CAPACITY HEAVY EARTH MOVING MACHINERY USED IN MINING APPLICATIONS
19	TSI914654	T. KALAI , R.S. MAURYA	Condition Based Maintenance System	Wear debris analysis - A condition monitoring tool (Case Study of Bowl Mills)
20	TSI914525	Biswajit Bera	Contact Mechanics & Friction	Generalized Adhesion Theory of Friction
21	TSI914585	Pankaj k Arya, G. D. Thakre, B. M. Shukla, Rajendra Kumar	Lubricants & Additives	Investigation of open source ignition characteristics of hydraulic fluid sprays
22	TSI914716	Vaibhav V Goud, Venu Babu Borugadda	Lubricants & Additives	Synthesis of bio-lubricant base stock from castor oil using In-situ epoxidation technique
23	TSI914698	Jagadeesh K. Mannekote, Satish V. Kailas, Kathyayini H, Krishna Venkatesh	Lubricants & Additives	Studies on stability and tribological properties of non soap thickener-sunflower oil based greases
24	TSI914717	Naveen K. Pokhriyal, A. K. Harinarain, Thomas P. George, Deepak Saxena, E. Sayanna, B. Basu , R. K. Malhotra	Lubricants & Additives	Studies on Friction and Film Formation Properties of Greases
25	TSI914687	M Abdul Samad, E Rismani, W M Kwek,C S Bhatia	Nano Tribology	Surface modification of the magnetic media – A graded carbon embedding approach
26	TSI914624	Jyotiranjn Ota, S.K. Hait, M.I.S Sastry, S.S.V Ramakumar, B. Basu , R.K Malhotra	Nano Tribology	Multi layered Graphene dispersion in hydrocarbon oil: heat transfer and tribological studies
27	TSI914595	Vinay Jaiswal, Rajesh Kumar, Rashmi Bala Rastogi	Nano Tribology	Tribological studies of Stearic acid-modified CaCu ₃ Ti ₄ O ₁₂ nanoparticles as potential lubricant additive in paraffin oil
28	TSI914520	P.K.Limaye, Neelima Khare, N.L.Soni, R.J.Patel	Special Topics in Tribology	Reciprocating sliding wear behaviour of SS 13-8 Mo and 17-4 PH under water
29	TSI914519	Neelima Khare, P.K.Limaye, N.L.Soni, R.J.Patel	Special Topics in Tribology	Effects of gamma irradiation on hardness, density and tribological properties of PEEK composite
30	TSI914549	Nijanthan Kumar R., Pandurang S. Salunkhe, S. D. Rege,D. D. Nage	Surface Treatment & Coatings	Evaluation of alternate to Cadmium plating
31	TSI914627	N. C. Murmu, Rudra Bubai, P. Samanta, A. P. Harsha,Prosenjit Das	Tribology in Design & Manufacturing	Numerical investigation on delamination in different coatings of cutting tools used in micro-machining applications
32	TSI914507	D.V.SRIKANTH	Tribology in Design & Manufacturing	Theoretical Computation of the Operational Characteristics in a Large Thrust Bearing
33	TSI914570	G. D. Thakre, Satish C. Sharma, S. P. Harsha, M. R. Tyagi	Tribology in Design & Manufacturing	Effect of surface bumps on the flow behavior of non-Newtonian lubricants in concentrated contacts.
34	TSI914565	Niharika Mohanta, S K Acharya	Tribology in Design & Manufacturing	A study on the potential of luffa cylindrica fiber reinforced polymer composite for tribological applications

35	TSI914569	Shakuntala Ojha, G.Raghavendra, S.K.Acharya	Tribology in Design & Manufacturing	A Comparative Study on Erosion Wear Behaviour of Bio Waste Reinforced Polymer Matrix Composites
36	TSI914579	Gujjala Raghavendra, Shakuntala Ojha, S.K.Acharya, S.K.Pal	Tribology in Design & Manufacturing	Investigation on Mechanical and Tribological Behavior of Novel Hybrid fly ash nano polymer Composite Materials
37	TSI914558	Nathi Ram, Satish C. Sharma	Tribology in Design & Manufacturing	Performance of CFV Compensated Asymmetric Roughened Hole-Entry Hybrid Journal Bearing Lubricated with Micropolar Lubricants
38	TSI914619	S. Rath, A.K. Marik, P.P. Sengupta, S.K. Thakur, P. Pathak, M.B.S. Namboothiripad	Tribology in Metalworking	Estimation coefficient of friction at roll-strip interface during hot strip rolling using hybrid on-line model
39	TSI914688	M. K. Dubey, R. Mahapatra, N.Sivasurian, J.N.Pandey, A. K. Harinarain, Deepak Saxena, G. K. Acharya, S. S. V. Ramakumar, B. Basu, R. K. Malhotra	Tribology in Metalworking	Prediction of hardenability of alloy steel during quenching with different oils through a correlation analysis
40	TSI914598	P.DUR AISAMY	Tribology in Metalworking	Potential Health Effects Caused by physical Changes in the Cutting Fluids in the CNC Machining and Grinding Operations
41	TSI914535	Ramesh C.S, Nirupama Mohan, Harsha R Gudi, Pramod	Tribo-Testing	TRIBOLOGICAL STUDIES ON Al6061-SiC/Cf HYBRID COMPOSITES
42	TSI914674	S. Tiwari, S. Khedkar, J. Bijwe	Tribo-Testing	Adhesive wear studies of surface treated carbon fabric polyetherimide composites using Taguchi technique
43	TSI914523	M. Akhondizadeh, M. fooladi Mahani, M. Rezaeizadeh, S.H. Mansouri	Wear Mechanisms	Theoretical model of the oblique impact wear prediction
44	TSI914614	Prasanta Kumar Padhi, Alok Satapathy	Wear Mechanisms	Fabrication, Characterisation and Wear Performance Evaluation of Polymer ComBlast Furnace Slag Particles as Fillerposites with
45	TSI914623	Mahendra K.V	Wear Mechanisms	Application of Flyash Aluminium composites under lubricated wear conditions
46	TSI914625	S K Jha, Sanjeev Kumar, R B Choudhury, K Prakash, D K Jain, R Topno,PP Sengupta	Wear Mechanisms	Study of wear resistance properties of different grades of rail steel
47	TSI914714	Kyoung-Sup Kum, Chang-yeol Oh, Kyu-Chul Han and Young-Ze Lee	Wear Mechanisms	Influence of the solid particles on Wear and friction mechanism of the thermal barrier coating
48	TSI914548	Viacheslav N. Khovanskiy	Tribo-Testing	Prospects for the use of the omplex of ribological Researches «ITRIB-System»
49	TSI914719	VELPULA SWAMYBABU	Contact Mechanics & Friction	INFLUENCE OF SURFACE TEXTURE ON COEFFICIENT OF FRICTION FOR SS316L BALL AND FLAT SPECIMEN

20th February 2014

**Plenary Session III
(9.00 am to 10.30 am)**

**Tea Break
(10.30 am to 10.45 am)**

**Business Meet - II
(10.45 am to 12.15 pm)**

**Lunch
(12.15 pm to 12.45 pm)**

Technical Session -V

(12.45 pm to 2.30 pm)

V-A : Bearing Tribology – V	V-B : Tribology in Metalworking-II	V-C : Tribo-Testing-II	V-D : Lubricants & Additives-IV	V-E: Surface Treatment & Coatings-IV	V-F : Nano Tribology-III
TSI914652	TSI914508	TSI914642	TSI914512	TSI914683	TSI914706
J. E. Johansson, M. T. Devlin, B. Prakash	J. Heinrichs, F. Gustavsson, M. Olsson, S. Jacobson	Jens Hardell, Sergej Mozgovoy, Anshuman Dube, Mats Oldenburg, Braham Prakash	Richard Baker	A. Cavaleiro, T. Polcar	Karolina Rzepiejewska-Malyska
Additive technology for improved pitting performance of mineral gear oils	Deformation-activated work material transfer to DLC coatings	A Novel High Temperature Tribometer for Hot Sheet Metal Forming Applications	Towards Improving Fuel Economy through Tribology Testing	High temperature tribological behaviour of protective coatings	Nanomechanical characterization of semi-solid lubricants
TSI914667	TSI914697	TSI914609	TSI914708	TSI914689	TSI914721
Syed Ismail, M Sarangi	P.V. Joseph, A.G Samy, Neelam Agarwal, S.Paul, Shankar Bhadhavath, Deepak Saxena, E. Sayanna B. Basu, R.K Malhotra	A. Hausberger, I. Godor, F. Grün, Th. Schwarz	Ravindra Kumar, Veena Bansal, Kavita Rai, A.K.Harinarain, M.B. Patel, B. Basu	Sandar Myo Myint, Myo Minn, N. Satyanarayana, Vincent Beng Chye Tan, Sujeet K. Sinha, Charanjit S. Bhatia	Bernd Wetzel, Ga Zhang, Nicole Pfeiffer
Influence of Fluid Inertia on the Textured Parallel Sliding Contacts in the Presence of Fluid-Solid Interfacial Slip	Studies on Aluminium Hot Forming Oil Meeting Emerging Requirements	Efficient material development for elastomeric sealing materials via the correlation between tribological model tests and component testing	Diffusion and Relaxation Measurements of Synthetic Lubricants by NMR Spectroscopy	Effects of 3D negative and positive fingerprint Si/SU-8 textures on the tribological properties	Transfer Films for Friction Reduction of Polymer Nanocomposites
TSI914536	TSI914670	TSI914528	TSI914718	TSI914665	TSI914584
K.R.V Nikhilesh, Ram Turaga	P. Pathak, D. Saxena, S. Paul, R. Mahapatra, Ashok Kumar, S.K.Thakur, P.P. Sengupta	Dr A. K. Jain, Vishal Bajpai, Roopak Sharma, Anuj Bhandari	G K Acharya, K A Subramanian, R K Malhotra	Panigrahi D. K, Sarangi M.	Chacko Preno Koshy, P K Rajendrakumar, Manu V Thottackkad
Influence of Texture Geometry and Spatial distribution on the performance of Inclined slider bearing- A CFD study	Development of rolling oil for roll bite lubrication at Hot Strip Mills	Development of New Transmission oil for Heavy Earthmoving equipment	Impact of soot loading on the rheological and tribological behaviour of diesel engine oil	Effect of Micro Textured Surfaces on Hydrodynamic Lubrication	Analysis of Tribological and Thermo-Physical Properties Of Surfactant-Modified Vegetable Oil-Based Cu Nano-Lubricants At Elevated Temperatures - An Experimental Study
TSI914542	TSI914662	TSI914617	TSI914555	TSI914580	TSI914591
Yantao Shang, Xintao Xia, Ming Qiu	Kirankumar P. Jayananda, Anshuman Dube, Amit Ganguly, Deepak H. Veeregowda	P.Mishra, Mandakini Behari	Vikram Kumar, Sujeet K. Sinha, Avinash K. Agrawal	M. Varman, K.A.H. Al Mahmud, M.A. Kalam, H.H. Masjuki	Manjesh K. Singh, Patrick Ilg, Rosa M. Espinosa-Marzal, Martin Kröger, Nicholas D. Spencer
Assessment for the quality of rolling bearing parts based on fuzzy theory	Friction and wear of alumina and inconel subjected to variable heating upto 900 deg C	Tribological Behavior of Multi-Walled Carbon Nanotube Reinforced Polymethyl Methacrylate Composite	UHMWPE–CNT/Graphene Polymer Coatings for Boundary Lubrication on Steel Substrates	Effect of commercial lubricant (SAE 40 grade) on a-C:H type DLC coating: adhesion and tribo properties	Modelling studies of interacting polymer-brushes under shear

Tea Break**(2.30 pm to 2.45 pm)****Technical session -VI****(2.45 pm to 4.30 pm)**

VI-A : Bearing Tribology – VI	VI-B : Lubricants & Additives-V	VI-C : Tribo-Testing-III	VI-D : Gear Tribology	VI-E : Surface Treatment & Coatings-V	VI-F : Tribology in Design & Manufacturing-II
TSI914550	TSI914608	TSI914567	TSI914655	TSI914692	TSI914653
Ram Turaga	S.J. Shaffer, H.Benecke, A. Sikder, S. Kuiry	G. D. Thakre, Savita Kaul, P. K. Arya, B. M. Shukla	Waldemar Tuszynski Marek Kalbarczyk, Michal Michalak, Edyta Osuch-Slomka, Jan Wulczynski	Naoki Yamashita	S.R. Durugkar, Sachin S. Ashtekar
On the Steady state and Dynamic Characteristics of Tilting pad Journal bearing with Surface Texture	Tribological properties of soybean oil-derived bio-based lubricants	Experimental investigation of load bearing capabilities of metal working fluids	Effects of the deposition of low-friction coatings on the teeth of spiral bevel gears	Tribology of Oil-Compatible Concentrated Polymer Brushes under Boundary to Hydrodynamic Lubrication	Preloading Aspects of Rolling Element Bearing – Case Study
TSI914588	TSI914712	TSI914532	TSI914510	TSI914672	TSI914518
Harpuneet singh	T. Singh	C.S.Ramesh, R.Noor Ahmed, Wajid Hussain, Wasim Ahmed	A.Johnney Mertens, Nitin S Sarpe. S. Senthilvelan	Nidhi Dureja	Suraj K Behera, Sunil K Sarangi, Trilok Singh
An Effect on the performance of worn journal bearing system using JFO cavitated model	Grease Composition for Rolling Mill Application in Steel Plants	Tribological Studies on hot forged Al 6061-10 wt% TiB2 composite	Performanc of PP CNT Compostite Gear	Surface tailoring of glass fabric and Polybenzoxazine composites with nano-graphite	Feasibility studies on gas foil journal bearings in small and high speed oil-free cryogenic turboexpander
TSI914531	TSI914681	TSI914586	TSI914568	TSI914553	TSI914563
Prashant B. Kushare, Satish C Sharma	P. Samanta, P. Shetty, P. Banerjee, T. Kuila .N.C.Murmu	Frederik Wolf	G. D. Thakre, Satish C. Sharma, S. P. Harsha, M. R. Tyagi	Jitendra K. Katiyar, Sujeet K. Sinha	S.K.Acharya, Gujjala Raghavendra, S.K.Pal
Performance of Two Lobe Hole Entry Worn Hybrid Journal Bearing System Operating with Non-Newtonian Lubricant	Tyre Pyrolysis Oil as a Lubricant	Effects of Rheology in Tribology	A study of ionic liquid lubricated elastohydrodynamic gear contact	Surface Micromechanical and Tribological Properties of different Coatings on Glass substrate	A Comparative Study of Mechanical and Tribological Properties of Jute-Glass Epoxy Hybrid Composites Filled By Micro-Nano Alumina Fillers

TSI914530	TSI914522	TSI914597	TSI914618	TSI914641	TSI914646
D Sethi, S K Behera	Harshal P. Mungse, Om P. Khatri	Arun Sikder, Steve Shaffer	Rahul Meshram, A.H.Zaidi, Sanker Bhadhavath, Ajay Kumar Harinarain , G.K. Acharya, S.S.V. Ramakumar, B. Basu, R. K. Malhotra	CS Ramesh, R Suresh Kumar, G Dilip Maruthi, Jaya Prakash	Seong Kyun Hwang, Sung-Hyun Jung, In-Ha Sung
Hydrodynamic Analysis of Different Textured Profile Thrust Pad Bearing	Lubrication Capabilities of Alkylamine Intercalated Graphene Oxide	High productivity Green Instrumentation for Designing Tribotests	Assessment of factors affecting churning losses and their optimization for improving Energy efficiency of gear oils	Study of Dry Sliding Wear behaviour of TiO2-15% Inconel718 Coated on Al6061	Effect of Friction on the Performance of a CIPP(cured-in-place pipe) Process for Water Pipeline Rehabilitation

**Conclusion/Valedictory session followed by High Tea
(4.30 pm to 5.00 pm)**