

Conference Day 1

9:00	Inauguration (Session Chair: Prof. Sujeet K Sinha)
9:10	Lamp Ceremony
9:15	Speech by TSI President
9:25	Speech by President, International Tribology Council
9:35	Speech by Chief Guest
10:00	Inauguration of the Exhibition Stalls
10:15	High Tea (Swagat Chai)
11:00	Plenary Talk (PL1) by Prof. Ali Erdemir (Title: Tribological Challenges for a Sustainable E-Mobility: Recent Progress and Future Prospects)
11:45	Plenary Talk (PL2) by Prof. Jayashree Bijwe (Title: Eco-friendly friction materials- evolution, recent status and future trends)
12:30	Keynote Talk (KN1) by Prof. Daniele Dini (Title: Towards Realistic Virtual Experiments in Tribology)
13:00	Lunch

Parallel Sessions for Conference Day 1

Day 1A: Session A			Day 1A: Session B			Day 1A: Session C			Day 1A: Session D		
Topic: Nanotribology			Topic: Bio-Tribology			Topic: Tribology of Machine Elements			Topic: Tribo-Testing		
Session Chair: Prof. M. S. Bobji			Session Chair: Dr. Ajay Kumar			Session Chair: Dr. M. R. Sridhar			Session Chair: Prof. P. Ramkumar		
Time	ABS ID	Title of the Presentation (Authors)	Time	ABS ID	Title of the Presentation (Authors)	Time	ABS ID	Title of the Presentation (Authors)	Time	ABS ID	Title of the Presentation (Authors)
14:00	278	Layer Dependent Friction on Two-Dimensional Materials: What can we learn from hysteresis? (Philip Egberts, Chaochen Xu, Zhijiang Ye, Malcolm Macdonald, Zahra Aboolizadeh, Peng Gong) (Invited Talk)	14:00	103	Lubricity of Articular Cartilage Surface and Synovial Fluid Constituents (Y. Sawae) (Invited Talk)	14:00	101	Nature Inspired Surfaces with particular reference to Fluid Film Bearing Applications (Satish C. Sharma) (Invited Talk)	14:00	299	Developing a Method to Measure and Rate Lubricant Controlled Friction Reduction (M. Ingram, I. Roots, T. Welham, M. Smeeth, C. Hamer)
14:20	313	Load-Dependent Friction Hysteresis for Graphitic Surfaces in n-Hexadecane (Behnoosh Sattari Baboukani, Ashutosh Pitkar, Zhijiang Ye, Prathima C Nalam) (Invited Talk)	14:20	99	The effects of nano-friction stimulation on the wear of the endothelial glycocalyx layer (H. Gato, K. Sato, S. Sasaki)	14:20	105	Effect of ER Lubrication on Annular Hybrid Thrust Pad Bearing Compensated with CFV Restrictor (Narendra Kumar, Satish C. Sharma)	14:10	294	Challenging to dilemma: Will an easy-to-use test method lead to inaccurate test data? Insights regarding the tribosystem piston ring, cylinder liner and lubricant. (Patrick Beau)
14:40	96	Precise friction measurement of adsorbed additive layer in lubricant by combined use of atomic force microscopy and metal line patterning (Naoki Yamashita)	14:30	134	Tactile friction under boundary lubrication: Effect of molecules on human skin (Suyash Gairola, Sanjeev Kumar, M.S. Bobji)	14:30	208	Numerical Analysis of Aerostatic Journal Bearing with Various Parallel Pockets (Shubham Sevada, Manas Ranjan Pattnayak, Suraj K Behera)	14:20	251	Tribocorrosion evaluation of Materials - Test methods and Repeatability using Reference Materia (Sravan Josyula, Debdutt Patro, Anirudh Dube)

14:50	222	Computational Indentation in Highly Cross-linked Polymer Networks (Manjesh Kumar Singh)	14:40	164	FEM Wear prediction of ceramic hip replacement bearings under standard and edge loading conditions (K Nitish Prasad , P Ramkumar)	14:40	209	Numerical Analysis of oil lubricated Journal Bearing with Herringbone Grooves (Md Akram Javed , Hara Prakash Mishra, Suraj K Behera)	14:30	78	Influence of Indian Footwear Tread Wear on Friction at the Shoe-Floor Interface During Slips (Shubham Gupta , Subhodip Chatterjee, Arnab Chanda)
15:00	154	Investigating Nanotribological Properties of Articular Cartilage interfaces using Atomistic Simulations (Abhinava Chatterjee , B. Devendra K. Dubey, Sujeet K. Sinha)	14:50	124	Tribological study of Ti6Al4V in different body fluids under reciprocating linear motion (Anurag Kumar Pandey , Avinash Kumar, R. K. Gautam)	14:50	277	Study of piezo-viscous polar lubricated multirecessed conical hybrid journal bearing (Arvind K. Rajput , Vishal Singh)	14:40	80	Barefoot Traction Testing in Indian Bathrooms: A Novel Experimental Framework (Subhodip Chatterjee , Shubham Gupta, Arnab Chanda)
15:10	187	Nanoscale friction and wear behavior of CVD-grown aged monolayer WS ₂ (Himanshu Rai , Deepa Thakur, Ashutosh Pitkar, Zhijiang Ye, Viswanath Balakrishnan, Nitya Nand Gosvami)	15:00	126	Antifriction and Antiwear behaviour of Ti-xZr alloy under simulated body fluid for biomedical application (Rupesh Kumar , R. K. Gautam)	15:00	43	Identification of Faults in Rolling Element Bearing Having Defect at Inner and Outer Race Using Vibration Analysis and Machine Learning (Pallavi Khaire , V M. Phalle)	14:50	83	Tribological studies on zircaloy-4 under varying conditions (Bharat Kumar , Deepak Kumar, V. Chaudhry)
15:20	267	Nanoscale tribological interactions of 2D materials with lubricant additives (Jitendra Soni , Nitya Nand Gosvami)	15:10	131	Mechanical and tribological studies of structuralit™ matrix with UHMWPE filler composites for hip joint application (Jaswant K. Hirwani , and Sujeet K. Sinha)	15:10	60	Needle roller Bearing Performance Issues and Mitigation (Preeti Banzare)	15:00	155	Evaluation of Boundary Lubrication Properties of Fatty Acids Using a Novel Lateral Force-Controlled Parallel Pendulum Tribometer (Adarsh Divakaran , and Satish Vasu Kailas)
15:30	325	Effect of Crystallographic Orientation and Scratch Direction on Tribological Behavior of Pure Ni using Molecular Dynamics Simulations (Vamsi K. Majeti , Devendra K. Dubey and J Jain)	15:20	236	An anisotropic bio-tribological performance of symmetrically micro-textured stainless steel 316L under simulated body fluid (Suryank Dwivedi , Amit Rai Dixit, Alok Kumar Das)	15:20	61	Analysis of Multi-Lobe Hydrodynamic Journal Bearings operating with Electro-Rheological (ER) Lubricant (K. Narwat , V. Kumar, S. J. Singh, and A. Kumar)	15:10	213	Tribo behaviour of Injection Molded and Additively Manufactured Polyetheretherketone under Dry Sliding (Sunil Kumar Prajapati , and R Gnanamoorthy)
			15:30	141	Development and Validation of Parallel-Rotary Type Human Skin Tribometer (A.K. Srivastava , J. S. Rathore, and S. Shrivastava)	15:30	85	MAX and MXene Enabled Enhanced Tribological Properties in Polymer (Shubham Jaiswal , Chetna Dhand, Rajeev Kumar, Pradip Kumar, Neeraj Dwivedi)	15:20	223	Effect of rotational speed and normal load on contact pressure and temperature during pin on disc tribotesting (Pooja Verma , Devashish Rajpoot, Rajnesh Tyagi)
16:00-17:00		Tea/Coffee Break + Poster Session									
17:00-18:30		Business Meet									
17:00		1. IOCL									
17:15		2. Industron									
17:30		3. PCS Instruments									
17:45		4. Optimol Instruments									
18:00		5. DUCOM									
18:15		6. SKF India									

Conference Day 2

9:00	Plenary Talk (PL3) by Prof. Robert Carpick (Title: Seeing the Hidden Interface: Revealing Nanoscale Mechanisms of Contact, Adhesion, and Friction by in situ Experiments)	(Session Chair: Prof. Deepak Kumar)
9:45	Keynote Talk (KN2) by Prof. Koshi Adachi (Title: Self-healing ultra-low friction system-Continuous self-formation of ultra-low friction interface)	
10:15	Conference Group Photo Session	
10:30	Tea/Coffee Break	

Parallel Sessions for Conference Day 2

Day 2M: Session A			Day 2M: Session B			Day 2M: Session C			Day 2M: Session D		
Topic: Nanotribology, Adhesion, Contact Mechanics & Friction			Topic: Bio-Tribology, Tribo-Corrosion, Tribological Materials			Topic: Tribology of Machine Elements			Topic: Tribo-Testing, Surface Treatment & Coatings		
Session Chair: Prof. P. Egberts			Session Chair: Prof. S. C. Sharma			Session Chair: Prof. Mayank Tiwari			Session Chair: Dr. Arvind K. Rajput		
Time	ABS ID	Title of the Presentation (Authors)	Time	ABS ID	Title of the Presentation (Authors)	Time	ABS ID	Title of the Presentation (Authors)	Time	ABS ID	Title of the Presentation (Authors)
11:00	304	Exploration of Nanoparticles of Solid Lubricants for Performance Enhancement of Lithium Greases (Nikhil Kumara , Vinay Sainib, Jayashree Bijwe)	11:00	167	Evaluating the performance of biomimetic surface textures using computational fluid dynamics technique (M Abhilash , P Ramkumar, S Vengadesan)	11:00	107	Boundary Lubrication derived from Interfacial Structure (Tomoko Hirayama) (Invited Talk)	11:00	227	Determination of friction transition under high acceleration (Vikas Kumar Singh , Pranay Vinayak Likhari and Satish V Kailas)
11:10	82	Mechanical Probing of Surfaces (M.S Bobji) (Invited Talk)	11:10	132	Effect of Contact Stress on Fretting Wear of FGM Coating Used in Hip Implants (Samiksha Moharana , Gnanamoorthy R, Yuichi Otsuka)	11:20	47	Microstructural and tribological characteristics of HVOF sprayed (CrMnFeCoNi)Alx high entropy coatings for extreme environments (Payank Patel , Navid Sharifi, Amit Roy, Mary Makowiec, Pantcho Stoyanov, Richard R. Chromik, Christian Moreau)	11:10	274	Experimental Investigation in to Abrasive Wear behaviour of Tamarind seed Particulate reinforced epoxy composite (S. K. Acharya , Subhrajit Pradhan, Ved Prakash, Sudhakar Majhi)
11:30	159	Interaction of a steel sphere on a vibrating surface under magnetic force (Ajay Kumar Panda , M S Bobji and Desikan S L N)	11:20	249	Investigation on the tribological characteristics of 3D printed bionic textured surface (Manu pratap singh Hirendra singh Parmar , and Skylab P Bhole)	11:30	115	Influence of textured shapes on hole-entry hybrid spherical journal bearing compensated with orifice restrictor (Adesh Kumar Tomar , Satish C. Sharma)	11:20	318	A novel oblique impact experiment for measuring high-speed sliding friction (Sazid Khan , S. Karthikeyan)
11:40	171	Finite element study of adhesive contact between an elastic body and a rigid half-space (Uzair Iqbal , M. S. Bobji)	11:30	158	Tribology of Soft Interfaces: Food and Beverages to Cartilages and Tissues (K. S. Pondicherry , M. Varshney, A. K. Perilakalathil, and S. Singh)	11:40	181	Tribological and vibrational performances of a grease lubricated ball bearing with multi circumferential micro-grooved	11:30	51	The effect of metal powder properties on the cold spray and tribology of Ti metal-matrix composites (Venkata Naga Vamsi Munagala and Richard R. Chromik)

								ances (Ajay Sharma , Satpal Sharma, R. K. Pandey)			
11:50	173	Effect of Dissolved and Suspended Solids on the Rupture of an Evaporating Liquid Bridge (Chetan TBV , Bobji MS, and Arakeri JH)	11:40	157	The combined effect of laser surface texturing and heat treatment on the corrosion performance of Ti6Al4V (P. Jeyalakshmi , V. Kashyap and P. Ramkumar)	11:50	211	Analysis of Electrorheological Lubricant Operated Hybrid Thrust Bearing (Vivek Kumar , Atul Kumar Singh, Simran Jeet Singh, Satish C Sharma)	11:40	56	Effect of Die-Sink-EDM micro-surface textures on the lubricant retention, contact angle-wettability, and tribological properties of hardened SAE 52100 (Vimal Edachery , Ramkumar P)
12:00	190	Adhesion Measurement using Wedge Test (Susheel Kumar and Manjesh Kumar Singh)	11:50	176	Synergetic effect of TiO2/h-BN blended Epoxy/acrylic Nanocomposite Coating on Mild Steel for its Tribomechanical and Anticorrosion Behavior (Pravesh Ravi and Jitendra Kumar Katiyar)	12:00	259	Traction behaviours of steel vs. steel and steel vs. ceramic concentrated contacts found in conventional and hybrid ball bearings (Deepak Mehra , R. K. Pandey, A. K. Darpe)	11:50	63	Development of highly durable self-regenerative superhydrophobic coatings through flame spraying (Aaishwarika Sharma , Harpreet Arora, and Harpreet Singh Grewal)
12:10	197	Adhesion Study of Highly Cross-linked Polymer Network using Explicit Indenter: A Molecular Dynamics Simulation Approach (Manoj Kumar Maurya , Manjesh Kumar Singh)	12:00	104	From research lab to industrial scale “challenges and opportunities in polymer-tribology” (Nazanin Emami) (Invited Talk)	12:10	258	Stability analysis of piezo-viscous polar lubricated multirecessed hybrid journal bearing (A. Vishal Singh , and B. Arvind K. Rajput)	12:00	74	Superlative Tribological Performance and Mechanical Durability of Flexible Superhydrophobic Surfaces (Reshab Pradhan , and Harpreet Singh Grewal)
12:20	261	Effect of Contact Pressure on Micro-Pitting Occurrence under Rolling-Sliding Contact Lubricated with Phosphorus Additives (Ryugo Noda , Ryosuke Mitsuoka, Xiaoxu Liu, Satoru Maegawa and Fumihito Itoigawa)	12:20	243	Understanding processing-microstructure-wear property relations of SiC ceramics (B. Venkata Manoj Kumar)	12:20	303	Exploring and improving the role of micro-pockets and bionic texture on the performance behaviours of a tilting pad thrust bearing (J. C. Atwal , R. K. Pandey)	12:10	76	Mitigating Cavitation-Erosion of Stainless Steel through Surface Deformation and Microscale Texturing. (A. Raturi , M. Garg, H.S. Grewal, and H.S. Arora)
			12:30	146	Evaluation of lubrication properties of Polyethylene Wax Emulsion and Paraffin Wax Emulsion (Harshad kumar S. Pandit , and K. Venkatesh)				12:20	86	Development of Wear Resistant Ceramic Coating on Steel using HVOF Thermal Spray (A. Pattnayak , N.V Abhijith, A. Gupta, D. Kumar, J. Jain, V. Chaudhry)
12:50-14:00		Lunch									

Day 2A1: Session A			Day 2 A1: Session B			Day 2 A1: Session C			Day 2 A1: Session D		
Topic: Adhesion, Contact Mechanics & Friction + Artificial Intelligence and Machine Learning applications to Tribology			Topic: Tribological Materials, Tribology in Design & Manufacturing			Topic: Tribology of Machine Elements, Lubrication, Lubricants & Additives			Topic: Surface Treatment & Coatings		
Session Chair: Dr. P. Nalam			Session Chair: Dr. Jibin T. Philip			Session Chair: Dr. Manjesh Kumar Singh			Session Chair: Prof. B. Venkata Manoj Kumar		
Time	ABS ID	Title of the Presentation (Authors)	Time	ABS ID	Title of the Presentation (Authors)	Time	ABS ID	Title of the Presentation (Authors)	Time	ABS ID	Title of the Presentation (Authors)
14:00	244	Lubricant flow in and around tribo-contact of micro-textured surfaces (Jalikor, S. V , Mariappan, M, Scheichl, B. and Bobji, M. S.)	14:00	216	Effect of Friction Modifiers on Tribomechanical Properties of Al/TiC Alloy Brake Composite Material (Pravesh Ravi and Jitendra Kumar Katiyar)	14:00	90	Study of tribological properties of disc surface of MR disc brake (Rakesh Kumar Singh and Chiranjit Sarkar)	14:00	323	Tribological properties of plasma-sprayed graphene nanoplatelets reinforced Al ₂ O ₃ - 40 wt% TiO ₂ coating (Rahul Verma , Swati Sharma, Pushpender Singh, Aminul Islam, Anup Kumar Keshri)
14:10	293	Influence of Material Constants on Adhesive Interaction between an Elastic Body and a Rigid Half-space (Rojin Mathews , T.R. Sreesastha Ram and Jayadeep U.B.)	14:10	263	Development of self-lubricating lightweight aluminium hybrid composite through hot press sintering (Kishor Kumar Sadhu, Prabhat Kumar Prajapati, Nilrudra Mandal, and Rashmi R Sahoo)	14:10	109	Lubrication by 2D/2D and 2D Heterostructured Layered Materials (Om P Khatri) (Invited Talk)	14:10	106	Influence of post-processing on microstructural and tribological behavior of HVOF sprayed high entropy alloys coating (N.V. Abhijith , A. Pattnayak, A. Gupta, D. Kumar)
14:20	111	Using Machine Learning to Predict Friction Based on Acoustic Emission Data (Robert Gutierrez , Yu Min, Andrew Widjaja, Tom Reddyhoff) (Invited Talk)	14:20	316	Effect of Surface Texturing on Ultra High Molecular Weight Polyethylene under Wet Friction Condition (A. Prashant Nagare , B. Vishnu Aher, C. Dipak Bajaj, D. Vishnu Wakchaure and Mahesh Harne)	14:30	112	On the lubricating performance of a grease thickened with recycled polypropylene in full bearing tests (G. Calderon-Salmeron , R. Westbroek, J. Leckner, and S. Glavatskih)	14:20	108	Enhanced Dry Lubrication behaviour of Electro deposited Ni-Graphite / Ni-hBN Coatings on Stainless Steel. (Anjali Kumari , Jayakumar N Murthy and B. Venkataraman)
14:40	58	Vibration Analysis of Hydrodynamic Conical Journal Bearing and Fault Prediction using Machine Learning (Harshal Bhat, Rahul Yadav , Sarang Bhudhar, Sagar Nikam, Avinash Mandarha, Vikas Phalle)	14:30	107	Investigation of Tribological behavior of AlCoCrFeNi High entropy alloy (Saurabh Vashistha , and Shailesh Kumar Singh)	14:40	219	Effects of alkyl chain length of ionic liquids on tribological properties in combined oil of ZDDP and ionic liquid under boundary lubrication (K. Sato , H. Okubo, S. Kawada, S. Watanabe, and S. Sasaki)	14:30	140	Wear characteristics of nanoporous alumina coating grown by two-step anodization of aluminium (Gautam Revankar A , and M S Bobji)
14:50	72	A Taguchi- Fuzzy Based Multi Objective Optimization of Hydrostatic Thrust Bearing Operating with Electro-Rheological	14:40	162	Design for fretting - a friction coefficient or fretting damage map approach (Pankaj Dhaka , Sathisha CH, Vishwanath T and Martin Galehouse)	14:50	250	Study of dynamic impedance and friction property on lubricated sliding rough surfaces (Kousuke	14:40	142	Evaluation of Tribological Properties of Different/ Various coating on Automotive Piston Ring: A Review

		Lubricant (A. K. Singh , V. Kumar, and S. J. Singh)						Hibino , Xiaoxu Liu, Satoru Maegawa, and Fumihito Itoigawa)			(Sumit Kumar , M. S. Charoo)
15:00	73	A comparative study of Roller Bearing Fault Classification using CWT-CNN and STFT-CNN methods (Thomas Joseph, Keerthi Krishnan K and Sudeep U)	14:50	272	Investigation Into Erosive Wear Performance of Agave Lichuguilla fiber reinforced Polymer Composites (Sudhakar Majhi , Samir Kumar Acharya, Ved Prakash, Subhrajit Pradhan)	15:00	283	Scheduling of acceleration for rotors supported on aerodynamic journal bearings to limit whirl amplitude and frequency (M. R. Pattnayak , J. K. Dutt and R. K. Pandey)	14:50	178	An investigation of the effects of dimple and groove texture on frictional property by in-situ observation of lubricant film thickness (Yuji Yuhara , Kaisei Sato, Shinya Sasaki)
15:10	135	Detection of Current Passing through Simulated Contacts in EV Motor Bearings using Machine Learning Approach (G V Balakrishna , Piyush Shakya and R Gnanamoorthy)	15:00	305	Applications of Numerical Methods in Tribology (Bharat Panjwani)	15:10	306	Exploring the tribological performance of lubricants containing polymer functionalized silica nanoparticles (Syed Junaid , Lukkumanul Hakkim, Leena Nebhani, Nitya Nand Gosvami)	15:00	184	Mechanical and tribological response of hard chrome and zinc phosphate conversion coatings on AISI 430 and AISI 1044 steel (Arun Kumar , Harsh Rachwani and Manjesh Kumar Singh)
15:20	252	TRIBOINFORMATIC APPROACHES FOR COMPOSITE COATINGS ON TITANIUM ALLOYS (K Naveen Kumar , Utpal Barman, Patrick J Masset, T V V L N Rao)	15:10	269	Effects of Alumina Nanofillers on Hardness and Tribological Behaviour of 3D Printed Photopolymer Nanocomposites (Ratnesh Raj , Annada Prasad Moharana, Amit Rai Dixit)	15:20	292	In-situ pressure measurements in elasto-hydrodynamic sliding contacts using surface plasmon resonance method (S. Maegawa , K. Ochiai, and F. Itoigawa)	15:10	189	Sand casting of surface alloyed butterfly valve with improved hardness, adhesion and corrosion resistance by incorporating metal powders in-mold coatings (Ajay Kumar)
15:30	256	Understanding The Load Dependency of Vickers Hardness Value of Glasses Using Machine Learning Technique (Sajid Mannan , Nitya Nand Gosvami and N.M Anoop Krishnan)	15:20	321	Controlling sliding-induced cracks in cutting of highly ductile copper (A. Kumar , A. Chandan, A. Mahato)	15:30	291	A case study on development of cost effective indigenous solution for lubrication of Bearings found in No-Twist Block Mills of a Wire Rod Mill under Make-In India initiative with unique collaboration between two Maharatna CPSEs (Rahul Jain)	15:20	210	Effect of WC particles on Scuffing Wear Resistance of Laser re-melted NiCrBSi Coatings (K. Deenadayalan , and P. Ramkumar)
15:45-16:00	Tea/ Coffee Break										

Day 2A2: Session A			Day 2A2: Session B			Day 2A2: Session C			Day 2A2: Session D		
Topic: Adhesion, Contact Mechanics & Friction + Artificial Intelligence and Machine Learning applications to Tribology Session Chair: Dr. Vimal Edachery			Topic: Tribology in Design & Manufacturing Session Chair: Dr. Chiranjit Sarkar			Topic: Lubrication, Lubricants & Additives, Tribology of Machine Elements Session Chair: Dr. Suraj Kumar Behera			Topic: Tribo-Testing, Surface Treatment & Coatings Session Chair: Dr. Rashmi R. Sahoo		
Time	ABS ID	Title of the Presentation (Authors)	Time	ABS ID	Title of the Presentation (Authors)	Time	ABS ID	Title of the Presentation (Authors)	Time	ABS ID	Title of the Presentation (Authors)
16:00	330	Influence of Micaceous Minerals on Fade and Recovery Characteristics of Copper-Free Brake Friction Composites (G. Sathyamoorthy, Vijay R, D. Lenin Singaravelu)	16:00	172	An investigation into the tribological behavior of additively manufactured AlSi10Mg components (Vivek Kumar Singh, Shailesh K Singh, Rashmi R Sahoo, Subrata Kumar Ghosh)	16:00	103	Influence of Shear Thinning and Piezoviscous Lubricant on the Performance of Hole-Entry Hybrid Spherical Thrust Bearing (Nitin Agrawal, Satish C. Sharma)	16:00	49	Nanomechanical and Nanotribological Characterization of Self-Lubricating MoS ₂ Nanocoating For Aerospace Applications (S. Harris, M. F. Wani, R. Sehgal, M. D. Sharma)
16:10	282	Web application to detect type of fault in anti-friction bearing (Ravi Desai, Harsh Mewada, Abhishek Pillai)	16:10	238	Performance evaluation of the tribological effect on continuous glass fibre reinforced polymer composite using 3D printing (Annada Prasad Moharana, Suryank Dwivedi, Amit Rai Dixit)	16:10	314	Tribological behavior of aged cold rolling oil on mild steel (Subho Chakrabortya, Suvendu Sekhar Girib, A. Panditc, A.N Bhagata, Ajay Kumar Jhad, V.V Mahashabdea)	16:10	207	Tribological behaviour of cold spray coatings - case study on selected aerospace materials (Ayan Bhowmik, Wen Sun, Adrian W-Y. Tan)
16:20	237	Prediction and Analysis of Abrasive Wear Response of in situ TiC reinforced Zinc-Aluminum based Composites using Machine Learning Algorithm (Mohammad Mohsin Khan, Abhijit Dey, Mohammad Irfan Hajam)	16:20	324	Effect of Heat-Treatment on the Tribological Behaviour of Inconel-718 Superalloy (Dhananjay Dubey, Manjesh K. Singh, Rajdip Mukherjee)	16:20	118	A Study on Conical Hybrid Journal Bearing compensated with Capillary Restrictor considering Taper Error (Abhishek Kumar, Satish C. Sharma)	16:20	44	Effect of Ultrasonic Nanocrystal Surface Modification Temperature on Rolling Tribological and Fatigue Behaviors of Ball Screw Heated by a Newly Developed Heat Treatment Device (A. Amanov, R. Karimbaev, Y.S. Pyun and H.S. Kim)
16:30	218	Nanoindentation of Polymer Nanocomposites via Coarse-Grained Molecular Dynamics Simulations (Qurat Ul Ain, B. Rakesh Sehgal, C. M F Wani, and D. M K Singh)	16:30	104	Effect of Nanofiber Alignment on Tribological Properties of CNF/epoxy Nanocomposites (Amit Chanda, Sujeet K Sinha, Naresh V Datla)	16:30	119	Effect of Solid Lubricant Particles on the Tribological Behaviour of Grease (Ullas Basavaraj, Tarun Boni, Ashish Saurabh, Piyush Chandra Verma)	16:30	117	Mechanical and Tribological Characterization of Co-BN Nano-Coating Developed by Magnetron Sputtering (Shahid Manzoor Wani, Babar Ahmad, and Sheikh Shahid Saleem)
16:40	246	Model on Estimation of Displacement and Shear force distribution at Contact interface	16:40	174	Tribological Behavior of Particulate Reinforced Aluminium Metal Matrix	16:40	185	Friction Reduction Mechanism of Fullerenes Mixed in Lubricant Focusing on the Way Fullerenes Exist at the Interface (Wataru Yagi,	16:40	161	Optimization of electro-deposition parameters to improve the hardness of Ni/Si ₃ N ₄ and Ni/YSZ

		under Pre-sliding condition (V. Chaudhry , Satish V. Kailas)			Composites - A Review (Utkarsh Pandey , and Dr Joyjeet Ghose)			Tomoko Hirayama, Nobuhiro Sato, Fumitaka Mori, Tomomi Honda)			nanocomposite coatings through response surface methodology (A. Ashish Kumar Sinha , B. Mukund Dutt Sharma, C. Rajneesh Kumar)
16:50	309	Effect of unidirectional sliding with a sharp conical indenter on carbon distribution in deformed layer of carbide free nanostructured bainitic steel (Kritika Singh , B. Blessto, Sudharm Rathore, and Aparna Singh)	16:50	315	Effect of Surface Texturing on Polyoxymethylene Composites under Dry and Wet Friction Conditions (A. Vishnu Aher , B. Prashant Nagare, C. Dipak Bajaj, D. Vishnu Wakchaure and Mahesh Harne)	16:50	100	Influence of Wear on the Performance of a Porous Hybrid Journal Bearing System (Anil Singh , Satish C. Sharma)	16:50	41	Erosive Wear Characterisation of Stellite 6 coated AISI 304 grade Stainless steel (Sangita Sarangi , Seshadev Sahoo, Ajit Kumar Mishra)
						17:00	198	Ionic liquids: In-search of new performance booster in lubricating grease (RG Bhui , V Manohar, V Kumar, NK Pokhriyal, AK Harinarain and M Maheshwari)	17:00	214	An Optimization of laser texturing parameters to improve the tribological performance of titanium alloy Ti-3Al-2.5V (A. Ashish Kumar Sinha , B. Mukund Dutt Sharma, C. Sanjay Kumar)
17:10-17:25	Tea/ Coffee Break										
17:15-18:45	TSI GBM										
19:00	Gala Dinner/Social Event										

Conference Day 3

8:30	Keynote Talk (KN3) Prof. Mark Rainforth (Title: Understanding Tribological Contact in Biomedical Applications: The Role of Surface Film Formation and its Correlation with Friction and Wear)	(Session Chair: Prof. Nitya Nand Gosvami)
9:00	Keynote Talk (KN4) Dr. Ramakumar, SSV (Title: Industrial Tribology- A force Multiplier for Achieving Netzero Goals)	
9:30	Keynote Talk (KN5) Prof. S. Sasaki (Title: Tribology that Contributes to the Realization of a Carbon-neutral Society)	
10:00	Keynote Talk (KN6) Prof. Satish V. Kailas (Title: Energy Loss Method to Characterize Lubricants in the Boundary Lubrication Regime)	
10:30	Tea/Coffee Break	

Parallel Sessions for Conference Day 3

Day 3M: Session A			Day 3M: Session B			Day 3M: Session C			Day 3M: Session D		
Topic: Green Tribology, Tribotronics Session Chair: Dr. A. Bhaskar Reddy			Topic: Tribology and Education, Fundamentals of Friction, Marine, Wind Turbines Session Chair: Dr. N. Yamashita			Topic: Lubrication, Lubricants & Additives Session Chair: Dr. Y. M. Shashidhara			Topic: Surface Treatment & Coatings Session Chair: D. Lenin Singaravelu		
Time	Abstract ID	Title of the Presentation (Authors)	Time	Abstract ID	Title of the Presentation (Authors)	Time	Abstract ID	Title of the Presentation (Authors)	Time	Abstract ID	Title of the Presentation (Authors)
11:00	102	Tribology in Hydrogen Mobility (R Gnanamoorthy , G Venkatesh, and G V Balakrishna) (Invited Talk)	11:00	128	Impact of geometric parameters of micro textured shapes on tribological properties (Kodi Ashish Kiran, Sheikh Shahid Saleem , Chandra Shekhar, Turali Narayana)	11:00	55	Investigating the Antiwear Characteristics of Castor Oil Based Ionano Lubricant using Four Ball Tester (Gitesh Kumar and H.C. Garg)	11:00	241	Molecular Dynamics Simulation to Model Contact and Friction in Metallic Coatings (Sushmayan Trivedi and Manjesh K. Singh)
11:20	65	Augmenting the performance of eco-friendly greases using synergistic natural resources (Ankit Saxena , Deepak Kumar, Naresh Tandon)	11:10	50	Traction and scuffing of lubricants in rolling-sliding contacts (Debdutt Patro , Sravan Josyula, Harish Prasanna, Fabio Alemano, Deepak Halenahally Veeragowda)	11:10	64	Thermophysical and Tribological investigations of castor oil based nanolubricants and their comparative study with conventional nanolubricants (Jyoti Srivastava , Tandra Nandi, and Rakesh K. Trivedi)	11:10	253	Minimizing the Scratch Damage of Silica Glasses via In Situ Deposition of Graphene Oxide Tribofilms (Sourav Sahoo , Om P. Khatri, N. M. Anoop Krishnan, Nitya N. Gosvami)
11:30	95	Performance Evaluation of Self Regenerative Nanocomposite Bulk Superhydrophobic Polymer under different Tribological Environments (Prateek Pathak , and Harpreet Singh Grewal)	11:20	59	Assessment of Tribological Performance of Water-Lubricated Bearing Under Elastohydrodynamic Lubrication (EHL) Considering Non-Gaussian Roughness (Deepak K. Prajapati , P. Ramkumar)	11:20	69	Novel synthetic Triangle Ester - lubricants: useful correlations for wetting and tribological phenomena over common engineering substrates (Neha Sharma , Sunil Kumar, G.D. Thakre, Anjan Ray)	11:20	266	Scratch Damage Evolution and Wear Behavior of Ion-exchanged Sodium Aluminophosphosilicate Glasses (S. Kasimuthamaniyan , Sourav Sahoo, Allu Amarnath Reddy, N. M. Anoop)

											Krishnan, Nitya Nand Gosvami)
11:40	94	Extreme pressure characteristics of environmental friendly metalworking fluid (Ajay Pratap Singh Lodhi , and Deepak Kumar)	11:30	133	Ferromagnetic particles removal from bearings - A Computational Fluid Dynamics Approach (Chiranjit Sarkar)	11:30	148	Evaluation of tribological activity of manganese vanadate nanosheets in the boundary lubrication regime (Nivedita Shukla , Alok Kumar Singh, Dhanesh Tiwary, and Rashmi B. Rastogi)	11:30	212	High Entropy Alloy Thin Films fabricated by Magnetron Sputtering (Subhakar M , Sujeet Chaudhary and Jayant Jain)
11:50	116	Sustainable Materials from Agrowaste - Friction Behavior of Coir Fibre (Sumanta Prasad Dewri and R Gnanamoorthy)	11:40	168	Multi-Objective Optimization of Wind Turbine Gearbox with Tribological Constraints (K Ashish , P Ramkumar, K Shankar)	11:40	152	Tribological Behaviour of Bismuth Vanadate (BiVO ₄) Nanorod (Alok Kumar Singh , Nivedita Shukla, K. D. Mandal and Rashmi B. Rastogi)	11:40	281	Effect of counterbody material on sliding wear behaviour of thermal oxidised Ti6Al4V (Kamini, S. Ganesh Sundara Raman)
12:00	166	Synthesis, Rheological Characterization and Tribological Performance of Olive Oil Biolubricant Enhanced With MoS ₂ Additive (Rajendra V. Pawar , Dattatray B. Hulwan, and Maruti B. Mandale)	11:50	180	Design of Test Rig to Replicate Premature failure in Rolling Element Bearings for Wind Turbine Gearbox (Vijayakumar Praveenkumar , Penchalia Ramkumar)	11:50	194	Single-Step Approach to Synthesize Highly Dispersible Chemically Functionalized MoS ₂ Nanosheets for Enhancement of Tribological Properties (Anchal Pandey , Sangita Kumari, Om P Sharma, Nanoji Islavath, Om P Khatri)	11:50	234	Optimization of Wear behavior in SBF of Ta-coated 316L Stainless steel by DC Magnetron Sputtering for the orthopedic applications (Dileep Pathote , Dheeraj Jaiswal, Vikrant Singh, C.K. Behera, and R.K. Gautam)
12:10	288	Energy Efficient Green Combo Lubricant for STUs and HEMMs (Abinash Kumar)	12:00	204	Development of digital twin solution for a single stage gear box (Makam Sri Lalith Madhav , Sai Venkatesh Balaji, Krishna Chaitanya Balabhadra, Ullas Basavaraj, Sabareesh G R)	12:00	196	Effect of the alkyl chain length on the tribological performance of two organic lubricant additives (Sukdeb Mandal , Sanjukta Zamindar, Manilal Murmu, Naresh Chandra Murmu, Harish Hirani, and Priyabrata Banerjee)	12:00	284	On the superior wear resistance and adhesion strength of compositionally modulated Ni-W multilayer coatings (Lavakumar Bathini M.J.N.V. Prasad, Nitin P. Wasekar)
12:20	120	Optimization of tribological and rheological performance of novel pentaerythritol tetraoleate based	12:10	235	Quantitative study on the role of diffusible hydrogen in White etching areas (WEAs) formation (Ashutosh	12:10	203	Chemically Functionalized 2D/2D h-BN-MoS ₂ Heterostructure: A Novel	12:10	286	Influence of processing condition and post-spray heat treatment on the

		calcium grease with varying dibasic acids as complexing agents using machine learning (Ripudaman Singh Negi , Raj Kumar Singh and Shailesh Kumar Singh)			Panda , P. Ramkumar, and M. Amirthalingam)			Additive of Remarkable Lubrication Performance (Sangita Kumari , Ajay Chouhan, LN Siva Kumar Konathala, Om P Sharma, Siddhartha S Ray, Anjan Ray, Om P Khatri)			tribological performance of high velocity air-fuel sprayed Cr3C2-25NiCr coatings (Rahul Jude Alroy , M. Kamaraj b, G. Sivakumar)
12:30	62	Tribotronics through ionic liquids: Electroresponse of ionic boundary films (Akepati Bhaskar Reddy , Georgia Pilkington, Mark Rutland, Sergei Glavatskih)	12:20	245	Effect of Built Orientation on Fretting Wear study of Additively Manufactured Inconel 718 (Anurag Sahu , Kamaraj M, Kesavan D)	12:20	233	The Behavior of Dispersed Solid Particles on Rolling Contact Fatigue Life (Ranju M R , and Kesavan D)	12:20	289	Investigation on tribological behavior of additively manufactured bone plate polished through Magnetorheological Fluid Assisted Finishing process (Atul Singh Rajput , Manas Das, and Sajjan Kapil)
			12:30	160	Is wear research doomed to empiricism? (Rajesh Kumar , and A. Sethuramiah)						
12:45-14:00		Lunch									

Day 3A1: Session A			Day 3A1: Session B			Day 3A1: Session C			Day 3A1: Session D		
Topic: Automotive including Electrical Vehicles, Renewable Energy Session Chair: Prof. T V V L N Rao			Topic: Wear Mechanisms Session Chair: Dr. J. Katiyar			Topic: Tribology in Metalworking, Lubrication, Lubricants & Additives, Tribology of Machine Elements Session Chair: Dr. S. Jalikop			Topic: Surface Treatment & Coatings, Tribo-Testing Session Chair: Prof. Rajesh Kumar		
Time	Abstract ID	Title of the Presentation	Time	Abstract ID	Title of the Presentation	Time	Abstract ID	Title of the Presentation	Time	Abstract ID	Title of the Presentation
14:00	97	Analysis of Micromotion Contacts in Proton Electrolyte Membrane Fuel Cell Components used in Hydrogen Mobility (Himanshu Pandey , Gnanamoorthy R)	14:00	217	Effect of Er on microstructure and wear behaviour of as-cast magnesium alloys (Rashi Rajanna , Amit Kumar Prasad and Jayant Jain)	14:00	232	Tribological behavior of PMHS polymer-derived ceramic composites of Al alloy (Sachin Kumar , Jibin T Philip, Satish Vasu Kailas)	14:00	220	Wear behaviour of LPBF produced C300 maraging steel at different temperatures and comparing with conventional maraging steel (Ashwani , and R. Lakshmi Narayan)

14:10	248	Methodology to Down Select Journal Bearings for Engine and Gearbox Applications (M R Sridhar , M J Niranjana, Paul Mathew and K A Harsha)	14:10	46	High Temperature Sliding Wear Behaviour of Spark Plasma Sintered SiC-TiB ₂ Composites (Chodiseti Surya Prakasarao , Mitjan Kalin, B. Venkata Manoj Kumar)	14:10	319	Effect of multidirectional forging on mechanical and tribological behavior of hypereutectic Al-20wt.%Si alloy. (Ishwari Narain Choudhary , Nitesh Kumar Sinha, Manik Mahali, Jayant Kumar Singh)	14:10	262	Scratch damage of BCR 692 reference DLC coating using insitu imaging and acoustic emission techniques (Anshuman Dube , Sravan Josyula, Prasad Kangralkar, Debdutt Patro)
14:20	169	FEM wear prediction of Automotive Steering Linkage Ball Joint under real-time loading conditions for Commercial Vehicle Segment (A. Sivasankar , K. Nitish Prasad and Dr. P. Ramkumar)	14:20	308	Dry Sliding Wear Behavior of TiB ₂ embedded Functionally Graded Aluminum Composite Processed by Centrifugal Casting Technique (Basudeb Rajak, Anurag Kumar Pandey, U. S. Rao , R. K. Gautam)	14:20	42	Wear behavior analysis of aluminium alloy LM25-B4C composites against EN 31 Steel (Zeeshan Ahmad , Vikas Verma, Sabah Khan, Ronaldo Câmara Cozza, Ramkumar Penchaliah)	14:20	295	Erosive Wear Characteristics of Nitrogen Containing Austenitic Stainless Steel for Hydro Turbine Applications (Naveen Kumar , Abhishek Das, Sagar Sarkar, Navneet Arora)
14:30	170	Tribological effect of type and relative amount of hard reinforcement particles on sintered copper brake composite friction materials (Raja P. and Ramkumar P)	14:30	270	Microstructure Response and Wear Mechanisms of In-situ Synthesized TiB reinforced Titanium matrix Composites during Reciprocating sliding wear (Ashwani Ranjan , Rajnesh Tyagi, Vikas Jindal)	14:30	54	Improvement of Oil Film Thickness Measurement Using Ultrasonic Technique on Metal-To-Roll Tribological Processes (Adeyemi G. J. , Stephen J. T. and Adebayo A)	14:30	45	Temperature-based Tribological study on Ti and Ti+Al added Invar-based ODS alloy prepared through mechanical alloying and spark plasma sintering (Arpan Arora , Suhrit Mula)
14:40	192	Thermal and electrical compatibility of lubricants in electrified transmissions (Alejandro García Tuero , Noelia Rivera, Eduardo Rodríguez Jose Luis Viesca, Antolin Hernández Battez)	14:40	240	Dry sliding wear behaviour of transparent spinel (MgAl ₂ O ₄) (Divyansh Mittal , Jan Hostaša, Laura Esposito, Andreana Piancastelli, Rajiv Kumar, Sandan Kumar Sharma)	14:40	202	Investigation on Frictional Resistance of a Gasoline Single Cylinder Engine (A.S. Ramadhas, Navarun Saikia , Lokesh Kumar, M. Sithanathan, Mukul Maheshwari, Sarita Seth, Sankar Bhadavath)	14:40	77	Additive-Additive Interaction: Understanding synergistic and antagonistic effects of additives in neat cutting oil formulation (Chidambaram CT , Sanjay Kumar, Pali Mehta, D Vinod Kumar, Vinith Kumar S, Dr Kavirayani Navinkiran)
14:50	70	Tribological Characteristics of Additively Manufactured Inconel-718 under Dry and Lubricated Conditions (Srinivasa Prakash Regalla)	14:50	242	Tribo-behaviour of Friction Stir Processed Ti6Al4V Interacting with Ceramics (Jibin T Philip , Satish V Kailas)	14:50	296	Study of Formulated Vegetable Oil as Gear Box Lubricant for a Two wheeler Vehicle (A. Shashidhara Y. M. , B.Keerthana H.D., C. Ljinalal, D.Pallavi H.S., E.Monika D.)	14:50	79	Prediction of Retention of Fuel Economy Capability in Aged Fully Formulated Fuel Economy Engine Oils containing Soluble Molybdenum Friction Modifiers using Laboratory Scale Bench Tests and

											Correlation with the Field Performance (Sanjay Kumar , Chidambaram C T, Jencen Mathai Arivannoor, Dr Kavirayani Navinkiran, D Vinod Kumar, Vinith Kumar S)
15:00	127	High entropy alloy for Hydrogen storage application (Shailesh Kumar Singh and Tuhin Surva Khan)	15:00	322	Degradation of metal surfaces in sliding asperity contact (A. Chandan , A. Kumar, and A. Mahato)	15:00	298	Advances and Trends in Industrial Lubrication (Jeevan T.P. and Sharath H.K.)	15:00	101	Effect of Microstructure on Wear Behaviour of Spheroidal Graphite (SG) Cast Iron (Mohd Nadeem Bhat , and S. Mushtaq)
15:10	200	Enhanced output performance of PAN/CNT nanofibrous triboelectric nanogenerator (Shailendra Kumar , Ashish Kakoria, Chhotrai Soren, Sumit Sinha-Ray and Ankur Goswami)	15:10	114	The impact of MgO, Al ₂ O ₃ and MgAl ₂ O ₄ in situ formed hard particles on mechanical properties and wear behaviour of AZ31 in-situ composites. (Bhingole P. P. , G.P. Chaudhari)	15:10	93	Oil Condition Monitoring Assists Vibration Analysis Indicating Advanced Symptoms of Mechanical Wear (Hemant Bari , Atul Deshpande, Suhas Patil)	15:10	111	Development of electroless Ni-B coating by varying bath temperature from a lead free bath and its tribological behavior (R. Agrawal , and A. Mukhopadhyay)
15:20	225	A Water droplet triboelectric nanogenerator based on charge transfer to a flow-through back electrodes (Shalini , Dhiman Mallick, Ankur Goswami)				15:20	307	Tribological Investigation of Nanoparticle based Cutting Fluids in Micro-drilling of Thermal Barrier Coated Nimonic 90 (Pratik A. Patil , and Sachin K. Patil)	15:20	312	Tribo-layer Investigation of Magnetron Sputtered Al _x Cr _{1-x} N coatings under Elevated Temperature (Jenis Samuel, Dinesh Kumar , Kuppusami)
						5:30	143	Stiffness Prediction for Various Compliant Bump Structures Used in Gas Foil Bearings (Srusti Priyadarshini and Suraj K Behera)			
15:45-16:00		Tea/ Coffee Break									

Day 3A2: Session A Topic: Renewable Energy, Tribology in Maintenance of Machinery Session Chair: Mr. O. P. Sharma			Day 3A2: Session B Topic: Wear Mechanisms, Innovations in Tribology Session Chair: Dr. J. T. Philip			Day 3A2: Session C Topic: Lubrication, Lubricants & Additives, Tribology of Machine Elements Session Chair: Dr. Jitendra Katiyar			Day 3A2: Session D Topic: Tribo-Testing Session Chair: Prof. T V V L N Rao		
Time	Abstract ID	Title of the Presentation	Time	Abstract ID	Title of the Presentation	Time	Abstract ID	Title of the Presentation	Time	Abstract ID	Title of the Presentation
16:00	125	Tribological behavior of Surface textured Chromium coated Piston rings using Ultrafast Laser (D. Nazeer Basha , G.L. Samuel and Ravi Bathe)	16:00	226	Effect of Post Processing on Wear Behaviour of Selective Laser Melted Al0.5CoCrFeNi High Entropy Alloy (Ameey Parnaik , R. L. Narayan)	16:00	84	Influence of nano-lubrication on tribological behavior of AZ91 magnesium alloy under fretting condition (Bharat Kumar , Shahid Saleem, M. F. Wani and Rakesh Sehgal)	16:00	193	Test method for evaluating energy efficiency and thermal characteristics of the transmission oils (Sandeep Singh , Rahul Meshram, Kavita Rai, Rajendra Mahapatra, A K Harinarain, Deepak Saxena)
16:10	206	A Study on Hydrodynamic Analysis of Spiral Grooved Thrust Bearing for Locomotive Turbocharger (Hara Prakash Mishra , Suraj Kumar Behera)	16:10	175	Uncertainty Analysis of Wear Under Reciprocating Sliding Conditions for Hypereutectic Al-Si Cylinder Liner Material (Ajith Kurian Baby , P K Rajendrakumar, Deepak Lawrence K)	16:10	137	Modelling of Electric Contact Resistance of Elliptical Point Contact in Rolling/Sliding motion under Mixed-Elastohydrodynamic Lubrication (Harsh Kumar , Krishnamurti Singh, Mayank Tiwari)	16:10	199	Anti-shudder and endurance performance evaluation of transmission oils using a Low Velocity Friction Apparatus and Mini Traction Machine (Rameshwar Chaudhary , Suman Das, Saurabh Mishra, Mukesh Kumar Dubey, Sanker Bhadhavath, , Rajendra Mahapatra, Ajay Kumar Harinarain, Deepak Saxena)
16:20	231	Effects of additives content on the performance of Turbine oil (Akshta Vaish , Rajesh Patil)	16:30	147	Investigation of Oil Flow in a Ball Bearing using Bubble Image Velocimetry and CFD Modelling (Ujjawal Arya , Wyatt Peterson, Farshid Sadeghi, Andreas Meinel, Hannes Grillenberger)	16:20	150	Modeling and Statistical Analysis of AISI M2 Steel against Mixed Ceramic Cutting tool under hard turning Conditions using Taguchi Method (Aditya Badyal, Gourav Khajuria , S Shahid Saleem, M Junaid Mir)	16:20	205	Tribological Characterization of Metal Matrix Composites made by Stir Casting Process from AA 6061 Extrusion (Sohil Parmar , Shyam Rangrej and Dr. Shaileshkumar Pandya)
16:30	290	Innovative Thermic Fluid System Cleaning solution using synthetic chemical agent (Udit Jain , Rahul Jain)	16:40	153	The effect of laser surface texturing on the tribological properties of the Ti-6Al-4V alloy under the lubricating condition (Turali Narayana , Shahid Saleem)	16:30	201	Rotordynamic Analysis of a Complex High-Speed Rotor (Debanshu S Khamari , Suraj K Behera)	16:30	221	Experimental Investigation On The Mechanical And Wear Properties Of Helicteres Isora-Based Nanocellulose Reinforced Epoxy Composites (Justine Jacob, Chacko Preno)

											Koshy , Rittin Abraham Kurien, Cintil Jose Chirayil)
16:40	275	Effect of Milling time and percentage of reinforcement on the microstructure of TiC nano particle reinforced Ti-6Al-4V alloys (Abhijit Dey , Basant Lal, M.F. Wani, Mohammad Mohsin Khan)	16:50	75	Wear and friction analysis of carbon fiber reinforced polymer composite doped with MWCNT under different sliding environmental conditions (Santosh Kumar , K. K. Singh)	16:40	224	Experimental study of temperature distribution and end leakage of oil lubricant for plane and textured hydrodynamic journal bearings (Nitin Borse , Shriniwas Chippa)	16:40	273	Abrasive Wear Behaviour of Hybrid Basalt-Glass Fibre Reinforced Epoxy Composite (Subhrajit Pradhan , Ved Prakash, Sudhakar Majhi, Samir Kumar Acharya)
16:50	156	Synthesis And Characterization of Surfactant Modified Ce-Zr Nanoparticle and Its Effect on The Performance and emissions of A Diesel Engine Run on Coconut Oil Biodiesel - Diesel Blend (Aravind Krishnan R , Sailesh K S, Chacko Preno Koshy)				16:50	264	A comparative study of HJB Performance Analysis using Theoretical and Software method (Nitin Ahire)			
17:00	257	Admixture evaluation for fuel economy and emissions by new Indian Motorcycle Driving Cycle (M. Sithananthan , Ravindra Kumar, Mukul Maheswari, Deepak Saxena)				17:00	195	Performance of 120-Degree partial bearing for couple stress lubrication with liner deformation for different aspect ratio (Sanjeev K. Lambha , Vinod Kumar and Rajiv Verma)			
17:10	YT Award, Best Paper (Oral and Poster) Awards and Conference Closure Ceremony										