

Thursday, January 25, 2024 – Conference Program					
	G1 - New Trends in Lubricants and Additives <i>Siegfried Lucazeau</i> room 1	G2 - Machine Elements and their Application in Tribology <i>Dr. Rich Baker</i> room 2	G3 - Sustainability and Resource Efficiency <i>Dr. Markus Matzke</i> room 3	G4 - Young Tribologists <i>Dr. Max Marian</i> room 4	G5 - Test and Measurement Methodologies <i>Rüdiger Krethe</i> room 5
09:00	Antioxidative Action and Tribological Performance of CuDTP as a Potential Additive for Hydraulic Fluids <i>Noriko Ayame, ENEOS Corporation, JPN</i>	Enhancing Reliability and Service Life Predictions of Tribological Contacts through Friction Monitoring during Assembly Process and Sensor-Embedded Smart Contacts for Verification <i>Dr. Michael Gleß, ContactEngineering, GER</i>	New Technologies of Antiwear and Antioxidant Additives used for Designing Nonhazardous Turbine Oils and Sustainable High-Performance Lubricants Including Greases <i>Dr. Gregoire Herve, Nyco, FRA</i>	Amorphous carbon coatings for total knee arthroplasty – a knee simulator evaluation <i>Benedict Rothammer, Friedrich-Alexander-University (FAU) Erlangen-Nuremberg, GER</i>	Limit Values for the Evaluation of Lubricant Analyses <i>Stefan Mitterer, OELCHECK GmbH, GER</i>
09:30	Boundary Lubricant Additive Responses on Steel, Aluminum and Copper Using Twist Compression Tests (TCT) for Multi-metal Lubricant Formulation <i>Ted McClure, Sea-Land Chemical Company, USA</i>	The Effect of Electrical Currents and Lubricant Formulation on Rolling Contact Fatigue <i>Dr. Monica Ratoi, University of Southampton, GBR</i>	The Effects of Applying the Tribological Compound TZ NIOD <i>Patrick Eisner, FH Technikum Wien, AUT</i>	On the Relation between Friction and Surface Topography – Models and Challenges <i>Charlotte Spies, Robert Bosch GmbH, GER</i>	Rheological and Tribological Characterization of Grease – From sub-zero Temperature to Influence of Electric Field <i>Paul Staudinger, Anton Paar GmbH, AUT</i>
10:00	Effect of Phosphonium Ionic Liquid as Lubricant Additive in Gear Oil against White Etching Areas Formation in Bearing Steel <i>Linto Davis, Indian Institute of Technology Madras, IND</i>	Film Formation Evolution in Grease-Lubricated Rolling Contacts: Impact of Operating Temperatures <i>Shuo Zhang, Institute for Machine Elements and Systems Engineering, RWTH, GER</i>	cancelled	Modeling of shape deviations for the development of predictive models of TEHD contacts <i>Klara Feile, Friedrich-Alexander-University (FAU) Erlangen-Nuremberg, GER</i>	Tribological Investigations under Varying Pressure Atmospheres <i>Felix Zak, Optimal Instruments Prüftechnik, GER</i>
10:30	Coffee Break / Exhibition				
	H1 - Computational Methods and Digital Transformation in Tribology <i>Johannes Müllers</i> room 1	H2 - Machine Elements and their Application in Tribology <i>Prof. Andreas Pauschitz</i> room 2	H3 - Sustainability and Resource Efficiency <i>Siegfried Lucazeau</i> room 3	H4 - Tribology - various topics <i>Rüdiger Krethe</i> room 4	H5 - Test and Measurement Methodologies <i>Dr. Xavier Borrás</i> room 5
11:00	Role of Coating Thickness on Static Leakages, Contact Area and Electrical Resistance: A Theoretical and Experimental Study for Randomly Rough Interactions <i>Prof. Dr. Michele Scaraggi, University of Salento, ITA</i>	Analysis of Biodegradable Lubricants for Radial Shaft Seals under Critical Conditions <i>Stefanie Haupt, Klüber Lubrication München GmbH, GER</i>	Innovative Lubricant Components with Lower Greenhouse Gas Emission to Address Sustainability Needs of the Lubricant Industry <i>Dr. Sabrina Stark, BASF SE, GER</i>	Estimation of Remaining Useful Life of Greases after Thermo-Oxidative Ageing by Application of New Method DIN 51830-2 <i>Dr. Markus Matzke, Robert Bosch GmbH, GER</i>	Efficiency Improvements of In-Situ Hydrogen Permeation Measurements in Lubricated Bearing Steel Contacts Using a Modified Devanathan-Stachurski Cell <i>Dr. Ajay Lodhi, University of Leeds, GBR</i>
11:30	Numerical and Experimental Analyses of the Multiscale Effects in the Tribological System Rotary Shaft Seals <i>Jeremias Grün, University of Stuttgart, Institute of Machine Components, GER</i>	Influence of the Steel Disk on the NVH Behavior of Industrial Wet Disk Clutches <i>Patrick Strobl, Technical University of Munich, GER</i>	High Quality Sustainable Base Oils from Plastic Waste and Biomass <i>Prof. Dr. Boris Zhmud, Tribonex AB, GBR</i>	Proper Lubricant Selection for Metal Forming <i>Dr. Rich Baker, Tribotonic Ltd., GBR</i>	Parallel Wear Testing - an Update. Can we Produce Enough Data to Enable AI in Tribology? <i>Dr. Dirk Drees, Falex Tribology, BEL</i>
12:00	Simulative and Experimental Characterization of the Tribo-Electrical Contact of Roller Bearings <i>Stefan Paulus, RPTU Kaiserslautern-Landau, GER</i>	Enhancing Machining Efficiency and Sustainability of Ti-6Al-4V through MQL with Polymeric Ester Based Metalworking Fluids: A Comparative Study with Conventional Cutting Fluids <i>Ramazan Hakkı Namlu, Atılım University, TUR</i>	Hybrid Lubricating Grease Formulations: A Sustainable Approach for Utilizing Renewable Resources within A Circular Economy Model <i>Dr. George S. Dodos, Eldon's S.A., GRC</i>	Measurable Sustainability enhancements and Asset Life Extension by applying In-Service Grease Analysis <i>Rich Wurzbach, Tribology Research Center at Knowledge, USA</i>	Building Tribology Application Testing to Determine Wear and Characterization of Polymer-Based Composites <i>Michael Katzer, Versiv Composites Limited, IRL</i>
12:30	Lunch Break / Exhibition				
	P3 - Plenary and Farewell Session, room 1				
14:00	Towards Superefficient Transmissions <i>Thomas Lohner, TU München, GER</i>				
14:30	The Data Science Frontier in Tribology <i>Dr. Nick Garabedian, Karlsruhe Institute of Technology, GER</i>				
15:00	Final Discussion and Farewell				
15:30	End of conference				