

Thursday, January 29, 2026 – Conference Program

	F1 - Lubricants and additives room 1	F2 - Lubricants and additives room 2	F3 - Tribology in machine elements and engineering applications room 3	F4 - Sustainable practices and resource efficiency in tribology room 4	F5 - Testing and measurement techniques room 5
09:00	Effect of Tribochemistry on Hydrogen Permeation into the Steel <i>A. P. S. Lodhi, Institute of Functional Surfaces, School of Mechanical Engineering, University of Leeds, Leeds, UK</i>	Anhydrous Calcium Grease – A Sustainable Alternative to Simple Lithium Grease <i>J. Leckner, Axel Christiernsson International AB, Nol, SWE</i>	Occurrence of Friction-Induced Vibrations: Influencing the Friction-Velocity Curve in Lubricated Viscoelastic Contacts <i>C. Spies, Robert Bosch GmbH, Corporate Research, Stuttgart, GER</i>	Driving Business Value and Innovation with Product Carbon Footprints <i>O. Vögler, Carbon Minds GmbH, LCA and PCF services, Cologne, GER</i>	Tribological Screening for Advanced Electric Driveline Fluids: Accelerating Performance Benchmarking and Development <i>K. Topolovec Miklozic, POWERTRIB Limited, Oxford, UK</i>
09:30	Effect of Gaseous Green Fuels on Marine Engine Lubrication <i>J. Jiang, VTT Technical Research Centre of Finland Ltd, Espoo, FIN</i>	Next Generation Grease Thickeners: Polyamides <i>E. Siriani, Invista, Intermediates New Business Development, Wichita, USA</i>	Thermally Induced Damage in Wet Clutches: Modelling, Characterization, and Lifetime Assessment <i>A. Zang, Technical University of Munich (TUM), Department of Mechanical Engineering, Gear Research Center,, Garching, GER</i>	The Role of Renewable Energy, Feedstock Selection, and Agricultural Practices in the Product Carbon Footprint of Bio-Based Group V Base Oils and Additives <i>M. Kriech, Biosynthetic Technologies, Indianapolis, USA</i>	New Advances in Test Methods for Electric Vehicles - Catching up with the Electric Revolution <i>R. Baker, Tribotonic Ltd, London, UK</i>
10:00	Photoluminescence Thin Film Fabrication with NaYF4 Nanoparticle Harnessing Tribochemistry <i>Y. Yuan, Institute of Functional Surface, School of Mechanical Engineering, University of Leeds, Leeds, UK</i>	An Influence of Interaction Between Grease Compounds on Tribology Performance <i>J. Ee, Vitality E&Z, Hennef, GER</i>	Factors Influencing Self-excited Judder in Dry-running Friction Systems Using the Example of Single-disc dry Clutches <i>T. Hacker, Karlsruher Institut für Technologie - IPEK-Institut für Produktentwicklung, Karlsruhe, GER</i>	Hydrolytic and Oxidatively Stable Esters: Fit for the Demands of the Modern world <i>D. Gillespie, Cargill Bioindustrial, York, UK</i>	Introducing an environment-controlled high-speed Pin-on-Disc test rig to replicate the paper machine forming section under operating conditions for the friction and wear studies of forming fabrics <i>Justus Rütting Hamm-Lippstadt University of Applied Sciences, Hamm, GER</i>
10:30	<i>Coffee Break / Exhibition</i>				
	G1 - Lubricants and additives room 1	G2 - Lubricants and additives room 2	G3 - Tribology in machine elements and engineering applications room 3	G4 - Sustainable practices and resource efficiency in tribology room 4	G5 - Testing and measurement techniques room 5
11:00	Formula Optimization by DoE for the Efficient Lubrication in Electric Vehicles <i>E. Echenique-Errandonea, Quaker Houghton-Verkol, Bera, ESP</i>	Evaluation of a High Viscous, Low Carbon Footprint Oil for use in Greases Formulations <i>Th. Norrby, Nynas AB, Nynäshamn, SWE</i>	Nanoscale Insights into the Tribological Behavior of Electrochemically Synthesized MXenes as Solid Lubricants <i>P. Bilotto, TU Wien, Institute of Engineering Design and Product Development, Vienna, AUT</i>	A Comprehensive Cradle-to-Gate Study of Lubricating Greases <i>G. S. Dodos, ELDON'S S.A., Athens, GRC</i>	Towards Realistic Infant Brain Phantoms: Sensor Integration and Tribological Evaluation for Injury Force Quantification <i>L. Dahlem, Institute for Product Engineering, Mechanical Engineering, Karlsruhe, GER</i>
11:30	Influence of Counterpart and Oil Formulation on Wear of DLC-Coated Differential Shafts for Electric Vehicles <i>J. Dufils, IREIS/HEF group, Andrézieux-Bouthéon, FRA</i>	Anticipating Reprotoxicity and Endocrine Disruption of Organophosphate Antiwear Additives Using AI and In Vitro Methods <i>G. Herve, Scientific and Technical Director, NYCO, Paris, FRA</i>	Tribological Performance of ZDDP-Enhanced Lubricants Under Electrified Pure Sliding Conditions <i>P. Ramkumar, Indian Institute of Technology, India, Department of Mechanical Engineering, Chennai, IND</i>	Eco-Friendly Alternatives: Bio-Greases for Rolling Bearing Applications <i>B. Nassef, Institute of Machine Design and Tribology (IMKT), Leibniz University Hannover, Hannover, GER</i>	Development of Artificial Fingertip for Realistic Touch Testing of Antimicrobial Surface Coatings <i>W. Wijnarko, Norwegian University of Science and Technology, Mechanical and Industrial Engineering, Trondheim, NOR</i>
12:00	Base oil and formulation effects on durability of electric vehicle fluids <i>M. Auerbach, Cargill Bioindustrial, Energy Technologies, Gouda, NL</i>	A Study on the Compatibility Aspects of Lubricating Greases <i>G. S. Dodos, ELDON'S S.A., Athens, GRC</i>	Assessment of the Tribological Performance of Materials under High Pressure Hydrogen Gas <i>B. Munteanu, IREIS/HEF group, Andrézieux-Bouthéon, FRA</i>	The Story of Asphalt - From Rheology to Tribology <i>J. Heinrich, Anton Paar Germany GmbH, Ostfildern, GER</i>	The Smart Way for Real-Time Oil Condition Monitoring <i>R. Stach, Klüber Lubrication München GmbH & Co. KG, Munich, GER</i>
12:30	<i>Lunch Break / Exhibition</i>				
	P3 - Plenary and Farewell Session, room 1				
13:30	Mastering new Challenges Towards Lubricant Industry - Linking Models, Standards and Partnerships <i>M. Matzke, Robert Bosch GmbH, Renningen, GER</i>				
14:00	Lubricant Inerting: A Sustainable Strategy for Modern Machinery <i>J. Wong, Imperial College London, Department of Mechanical Engineering - The Tribology Group, London, UK</i>				
14:30	Rethinking Grease Testing for Oscillating Contacts: From Standardized Wear Progression to Preventive Assessment <i>G. Bayer, Leibniz University Hanover, Institute of Machine Design and Tribology (IMKT), Garbsen, GER</i>				
15:30	<i>Fare well and grab your snack</i>				