

DAY 1 WEDNESDAY, 03 JUNE 2026

LUBRICANTS 1	
Room 0B	
08:30 - 09:00	ATTENDEES REGISTRATION
09:00 - 09:30	OPEN CEREMONY Javier Barriga (Tekniker), Adolfo Málaga (Bureau Veritas), Eneko Gorritxategi (Atten2), Ian Sherrington (JOST Jost Institute for Tribotechnology) Alberto Fernández (Basque Government - Director of Technology and Innovation)
CHAIRPERSON: JAVIER BARRIGA — TEKNIKER	
09:30 - 10:00	PLENARY SPEAKER: MAR COMBARROS IQL <i>Where sustainability meets performance: gear oil case study.</i>
CHAIRPERSON: ADOLFO MÁLAGA - BUREAU VERITAS	
10:05 - 10:30	* KEYNOTE Balabrmaniam Vengudusamy - Klüber Lubrication München GmbH & Co. KG From Tribology Challenges to Lifetime Extension - Advanced Lubrication Strategies for Modern Wind Turbines.
10:30 - 10:50	Challenges in the Analysis and Evaluation of Industrial Oils Stefan Mitterer OELCHECK GmbH Thomas Dr. Fischer
10:50 - 11:10	Good manners and practices for successful multivariate data analysis in oil condition monitoring (OCM) Alberto Villar Verguizas Tekniker Jose Ignacio Ciria - Ibon Zubizaray
11:10 - 11:30	Chemometrics as a powerful quality tool for OCM Jose I. Ciria Lubrication Management - Bureau Veritas Ibon Zubizaray
11:30 - 12:00	COFFEE BREAK - POSTERS PRESENTATION

LUBRICANTS 2	
Room 0B	
CHAIRPERSON: JORGE ALARCÓN - BUREAU VERITAS	
12:00 - 12:20	When Dissolved Varnish Becomes a Particle Count Problem: Resolving Temperature-Driven ISO 4406 Cleanliness Instability with Ion Exchange Resin Technology Peter Dufresne EPT Clean Oil Peter Dufresne
12:20 - 12:40	From Thermal Stress to Varnish: Lab Tools for Lubricant Deposit Assessment Vincent BOUILLON Eurofins BFB Oil Research
12:40 - 13:00	Lubricant Varnish: What We've Learned and What We Still Don't Know Greg Livingstone Fluitec Sanya Mathura
13:00 - 13:30	STAND VISIT
13:30 - 14:30	LUNCH

LUBRICANTS 3	
Room 0B	
CHAIRPERSON: JOSÉ IGNACIO CIRIA - BUREAU VERITAS	
14:30 - 15:00	* KEYNOTE Borja Armendariz - Tekniker Copper oleate-EP synergy in low-viscosity lubricants: antiwear comparison with commercial oils Francesco Pagano - José Tomás San José-Lombera - Ichiro Minami
15:00 - 15:20	Intelligent forecasting of oil changes with onsite oil analysis leads to maintenance cost savings Daniel Walsh Ametek Spectro Scientific Lisa Williams
15:20 - 15:40	Solubility enhancers a solution needed by Lubes Oil companies to Drive efficiency improvements in production processes Juan Jose Salaberri Fluitec
15:40 - 16:00	Modification of stability behavior of friction-stressed lubricating greases Erik Kuhn Hamburg University of Appl. Sc.
16:00 - 16:20	COFFEE BREAK

LUBRICANTS 4	
Room 0B	
CHAIRPERSON: BORJA ARMENDARIZ - TEKNIKER	
16:20 - 16:40	Progress and Evolution of Coolant Usages in Industry Applications Yesid Antonio GOMEZ Bureau Veritas Spain - OCM Adolfo MALAGA - Pablo ARCE - Yesid Antonio GOMEZ - Maialen Aldabaldeirecu (Presenting Author)
16:40 - 17:00	Overview of the Latest Developments Affecting the Grease Industry Terry Dicken ELGI
17:00 - 17:20	Balancing sustainability with reliability for hydraulic oils in wind turbines Jo Ameye Fluitec NV Greg Livingstone - Sanya Mathura
END OF SESSION	
20:30 - 23:30	Gala Dinner: The Artist Grand Hotel of Art

TRIBOLOGY 1	
Room 0C	
CHAIRPERSON: AMAYA IGARTUA — TEKNIKER	
10:05 - 10:30	* KEYNOTE Prof. Dr. Tim Hosenfeldt - Schaeffler AG Holistic Tribology for Sustainable and Efficient Motion.
10:30 - 10:50	Assessment of the tribological performance of materials under high pressure hydrogen gas Johnny Dufils IREIS / HEF Group Bogdan Munteanu - Etienne Macron
10:50 - 11:10	Tribological behavior of low viscosity synthetic ester base oils for Electric Vehicles (EVs) under pure sliding electrified conditions Claudia Martínez de Castilla Delgado Fundación Tekniker Bihotz Pinedo - Eduardo Tabares - Vanesa Alonso - Marta Hernalz - Borja Armendariz - Ainara López-Ortega - Javier Barriga
11:10 - 11:30	Engine oil stress as a consequence of DPF regeneration on urban service vehicles and maintenance improvement aided by AI Bernardo Tormos CMT - Clean Mobility & Thermofluids (UPV) Ramón Sánchez-Marquez - Santiago Ballester - Alvaro Nuevóalos
11:30 - 12:00	COFFEE BREAK - POSTERS PRESENTATION

TRIBOLOGY 2	
Room 0C	
CHAIRPERSON: JAVIER BARRIGA — TEKNIKER	
12:00 - 12:20	Influence of counterpart and lubricant on wear of DLC coated differential shafts for electric vehicles Pauline Faura IREIS / HEF Group Johnny Dufils - Etienne Macron - Christophe Héau
12:20 - 12:40	Effects of aerospace-grade steel surface topography and coating on lubricated friction coefficient Aitor Arana Mondragon Unibertsitatea Mikel Iribecamos - Ibai Ulacia - Julen Maza
12:40 - 13:00	Combining laser-textured dimples and AlCrN coating to reduce wear on AISI M2 Steel Iker Alfonso Public University of Navarre
13:00 - 13:30	STAND VISIT
13:30 - 14:30	LUNCH

TRIBOLOGY 3	
Room 0C	
CHAIRPERSON: JORGE SEABRA — INEGI	
14:30 - 15:00	* KEYNOTE Anna Andersson - ABB Towards grease-free lubrication in electrical switching
15:00 - 15:20	SiToLub project - tribology for safe and sustainable lubricants Francesco Pagano Tekniker Amaya Igartua (Presenting Author)
15:20 - 15:40	Ageing mechanism of non-fossil base oils Ichiro Minami Jessica Pichler - Adam Agocs - Lucia Pisarova - Marcella Frauscher - Nicole Dörr - Francesco Pagano
15:40 - 16:00	Hydrogen related mechanisms influencing the galling behaviour of austenitic stainless steels in threaded components Beatriz Fernandez-Diaz Tekniker Xana Fernández - Fernando José López-Uruñuela - Gemma Mendoza
16:00 - 16:20	COFFEE BREAK

TRIBOLOGY 4	
Room 0C	
CHAIRPERSON: JOSEFA FERNÁNDEZ — UNIVERSIDAD DE SANTIAGO DE COMPOSTELA	
16:20 - 16:40	Tribological and corrosion properties of PEO/HIPIMS duplex coatings deposited on ZK60 magnesium alloy Adrián Claver Alba INAMAT2, Public University of Navarre
16:40 - 17:00	Prediction and Measurement of Space Lubricant Lifetimes in Angular Contact Bearings Dhanushka Hewaralalage University of Lancashire Ian Sherrington - Nathalie Renevier - Mara Bernabei - Ali Ghanbari
17:00 - 17:20	Simple Models for Mixed and Boundary Friction Ian Sherrington University of Lancashire Ian Taylor
END OF SESSION	

CONDITIONING 1	
Room 0D	
CHAIRPERSON: GUILLERMO MIRÓ — ATTEN[2]	
10:05 - 10:30	* KEYNOTE Marc Vila Forteza - Petronor A Proportional Hazards Models perspective on MTBF estimation for centrifugal pumps
10:30 - 10:50	Real Time Monitoring of Water-Glycol Hydraulic Systems: Early Failure Detection Using Optical Particle Counter and Data Analytics Platform in the Caster Main Hydraulic System Rafael Diaz RMSH Rafael Antonio Diaz Giron - Israel Sanchez - Marco Suárez (Presenting Author)
10:50 - 11:10	Optimizing the Life Cycle of Online Oil Sensors: Installation, Maintenance Strategies and Performance Management Eneko Gorritxategi Atten2 Advanced Monitoring Technologies SL
11:10 - 11:30	Lessons Learned from Online Oil Contamination Monitoring Jan Novák KLEENTEK, spol. s r.o.
11:30 - 12:00	COFFEE BREAK - POSTERS PRESENTATION

CONDITIONING 2	
Room 0D	
CHAIRPERSON: ENEKO GORRITXATEGI — ATTEN[2]	
12:00 - 12:20	Maintenance 5.0 Riccardo Tognoli BETA FILTRATION
12:20 - 12:40	Reducing Commissioning and Downtime Through Advanced Flushing and Lubrication System Cleaning Techniques Cristian Schmid Sicelub Ibérico SL
12:40 - 13:00	Lubrication Practices, Condition vs. Assumption Haris Trobradovic SDT Ultrasound
13:00 - 13:30	STAND VISIT
13:30 - 14:30	LUNCH

CONDITIONING 3	
Room 0D	
CHAIRPERSON: BERNARDO TORMOS — CMT CLEAN MOBILITY & THERMOFLUIDS UPV	
14:30 - 15:00	* KEYNOTE Sofia Bastidas - Virtual Vehicle Investigating combustion engine wear during running-in and an overview of journal bearing performance prediction using a hybrid model approach.
15:00 - 15:20	Vibration-Guided Lubrication for Maintenance Efficiency Janno Gabriels I-Care
15:20 - 15:40	Integrating Fluid Analysis with CMMS & Business Systems (+Case Studies) Gwyn Simmonds POLARIS Laboratories Europe
15:40 - 16:00	Trends in Used Oil Analysis: Insights from MOL-LUB's Diagnostic Laboratory Over the Last Decade Mária Valentné Dr. Sutyjnszki MOL-LUB Ltd.
16:00 - 16:20	COFFEE BREAK

CONDITIONING 4	
Room 0D	
CHAIRPERSON: ALBERTO VILLAR — TEKNIKER	
16:20 - 16:40	Modern grease analysis in industry Wojciech Jewula Ecol Sp. z o.o. Jakub Chłodek - Wojciech Majka - Piotr Farbiszewski
16:40 - 17:00	Lubrication Management in CEE II Overview Zoltán Kecskés MOL-LUB Ltd
17:00 - 17:20	Implementing online sensors and cleanliness on a mining ball mill Adrian Goodwin GVS Reliability Products Presenting Author: Atten[2] team
END OF SESSION	
20:30 - 23:30	Gala Dinner: The Artist Grand Hotel of Art

LUBRICANTS 5

Room 0B

09:00 - 09:30	ATTENDEES REGISTRATION
CHAIRPERSON: IAN SHERRINGTON — JOST	
09:30 - 10:00	PLENARY SPEAKER: ESTEBAN BROITMAN SENTYS <i>Tribological Coatings for Wind Turbine Bearings: An Overview</i>
CHAIRPERSON: IAN TAYLOR — UNIVERSITY OF LANCASHIRE	
10:05 - 10:30	* KEYNOTE Aldara Naveira · RecondOil - SKF Circular Lubrication: Enhancing performance and reliability of industrial operations through circular use of oil
10:30 - 10:50	Proactive Substitution Principle in Sustainability Mehdi Fathi-Najafi Nynas AB (publ)
10:50 - 11:10	Sustainable Solutions in Metal cleaning Processes Dr. Sara Pasquale FUCHS LUBRICANTES SAU
11:10 - 11:30	Development of green lubricants for chasis components stamping Núria Rodríguez Grabalosa FUCHS LUBRICANTES SAU
11:30 - 12:00	COFFEE BREAK - POSTERS PRESENTATION

LUBRICANTS 6

Room 0B

CHAIRPERSON: JORGE ALARCÓN — BUREAU VERITAS	
12:00 - 12:20	Ammonia as a fuel for marine engines - lubricating oil monitoring and chemical analysis of fuel-lubricating oil interactions Richard Tröltzsch Universität Rostock - Lehrstuhl für Kolbenmaschinen und Verbrennungsmotoren Ulrike Schümann
12:20 - 12:40	Challenges for The Grease Analysis and Sampling for Wind Turbines Yesid Antonio Gomez Bureau Veritas Spain - OCM Yesid Antonio GOMEZ · Adolfo MALAGA · Joana GIL · Maria Elena Garcia (Presenting Author)
12:40 - 13:00	Aluminium hot stamping novel lubricant Núria Rodríguez FUCHS LUBRICANTES SAU
13:00 - 13:30	STAND VISIT
13:30 - 14:30	LUNCH

LUBRICANTS 7

Room 0B

CHAIRPERSON: LEANDRE MUNTADA — BRUGAROLAS .SA	
14:30 - 15:00	* KEYNOTE Gema Del Olmo · FUCHS LUBRICANTES SAU Sustainability in Lubricants Development
15:00 - 15:20	Tailor-made Automation for Oil and Coolant Condition Monitoring Laboratories: Modular, Customer-Centric Solutions from Sample Intake to Analysis Mike Matjeka HF Innovation GmbH
15:20 - 15:40	Race for clean oil - filter efficiency tests Steffen D Nyman C.C.JENSEN Steffen D Nyman
15:40 - 16:00	Achieving superlubricity on hydrogenated diamond-like carbon coatings under electrified sliding conditions with aqueous glycerol lubrication Parveen Kumar Laboratory for Tribology and Interface Nanotechnology, University of Ljubljana Irfan Nadeem · Talha Bin Yaqub · Ardian Morina · Mitjan Kalin
16:00 - 16:20	COFFEE BREAK

LUBRICANTS 8

Room 0B

CHAIRPERSON: MEHDI FATHI-NAJAFI — NYNAS AB (PUBL).	
16:20 - 16:40	How potato peels converted into synthetic esters leads to base oils with improved performance and significantly lowered carbon footprint Sabrina Zaini ChainCraft Erwin Zwolsman · Thomas Blundell
16:40 - 17:00	Phosphate Ester - is fill for life possible? Steffen D Nyman C.C.JENSEN Steffen D Nyman
17:00 - 18:30	Closing Ceremony and 10th Edition Cocktail

TRIBOLOGY 5

Room 0C

CHAIRPERSON: BEATRIZ FERNÁNDEZ — TEKNIKER	
10:05 - 10:30	* KEYNOTE Cristian Schmid · Reladyne Tribology for Industry: Closing the Gap Between Knowledge, Application and Measurable Benefits
10:30 - 10:50	OOST Methodology: A Systems-Oriented Optimization of Interconnected Tribological Systems to Enhance Centrifugal Pump Reliability Victor Rubiano Chesterton International GmbH
10:50 - 11:10	A Study of the Effect of Hydrogen Introduction into a Diesel Internal Combustion Engine Ahmad AlFetyani University of Lancashire Graham Calderbank
11:10 - 11:30	Tribotronic System for Piston Ring Lubrication Abdelrahman Youssef University of Lancashire
11:30 - 12:00	COFFEE BREAK - POSTERS PRESENTATION

TRIBOLOGY 6

Room 0C

CHAIRPERSON: ESTEBAN BROITMAN — SENTYS	
12:00 - 12:20	Low-Friction Diamond-Like Carbon Coatings for Tapered Roller Bearings: Design, Characterization and Tribological Performance Sofia Gimeno Fersa
12:20 - 12:40	Controlled Synergistic Transition of Friction Mechanism in Ceramics with Lubricant system based on 2D nanostructures WSe₂ as a Tribological Trigger. Kostyantyn Grinkevych Eduardo Torroja Institute of Construction Sciences, CSIC (IETCC-CSIC) Natalia Konih-Ettel · Ostap Zgalat-Lozynskyi · Roman Nevshupa
12:40 - 13:00	Minimum energy sliding equilibrium model for redundant kinematic mechanism Mikel Iribecampes Juaristi Mechanics and Industrial Production Department, Mondragon University Mikel Iribecampes Juaristi · Pello Alberdi Quevedo · Aitor Arana Ostolaza · Ibai Ulacia Garmendia
13:00 - 13:30	STAND VISIT
13:30 - 14:30	LUNCH

TRIBOLOGY 7

Room 0C

CHAIRPERSON: BIHOTZ PINEDO — TEKNIKER	
14:30 - 15:00	* KEYNOTE Jorge Seabra · INEGI Torque loss in an angular contact ball bearing Pedro Marques · Bovic Kilundu · Jorge Seabra
15:00 - 15:20	Equations for Predicting the Minimum Oil Film Thickness in Reciprocating Contacts Ian Taylor Jost Institute for Tribotechnology, University of Lancashire
15:20 - 15:40	Triboelectric wind turbine for Mars exploration Iban Quintana TEKNIKER Borja Pozo
15:40 - 16:00	Blade Health Monitoring of Turbo Propulsion Systems: Novel Modal-based BTT and BTC Simulator with Experimental Validation Naweendra Jayasundara Mudiyanselage University of Lancashire Mohamed Elsayed Mohamed · Ian Sherrington · Kirjjen Vengadasalam
16:00 - 16:20	COFFEE BREAK

TRIBOLOGY 8

Room 0C

CHAIRPERSON: TIM HOSENFELDT — SCHAEFFLER AG	
16:20 - 16:40	Optical scatterometry-enabled phase-space representation for functional characterisation of tribological contacts Boris Brodmann OptoSurf GmbH Matthias Eifler · Cesar Weigmann
16:40 - 17:00	Development of tribological testing machines in TEKNIKER Amaya Igartua Fundación TEKNIKER Borja Zabala · Francesco Pagano · Ichiro Minami · Bihotz Pinedo · Jose Mari Seara · Javier Barriga
17:00 - 18:30	Closing Ceremony and 10th Edition Cocktail

CONDITIONING 5

Room 0D

CHAIRPERSON: YESID GÓMEZ — BUREAU VERITAS	
10:05 - 10:30	* KEYNOTE Carlos Mota · GALP ENERGY From Lubrication Practice to Data Driven Asset Insight: A Digital Approach to Lubrication Excellence and Condition Monitoring
10:30 - 10:50	Transforming Lubrication into Operational Intelligence Marcelo Robert Belray
10:50 - 11:10	Standardization of Particle Detection and Counting in Lubricants: Concepts, Landscape, and Future Outlook Guillermo Miró Atten[2]
11:10 - 11:30	A Lightweight Algorithm to Verify Sensor Health in Wind-Turbine Lubrication-Oil Monitoring Riccardo Cocola Tekniker Kerman López de Calle
11:30 - 12:00	COFFEE BREAK - POSTERS PRESENTATION

CONDITIONING 6

Room 0D

CHAIRPERSON: ANA ARANZABE — TEKNIKER	
12:00 - 12:20	Goodbye "Ghost Particles": Improving Particle Counting Accuracy with the ASTM D7647 Dilution Method Bill Quesnel CINRG Systems Inc. Alistair Geach
12:20 - 12:40	ASSIST® - Collaborative Robotics and AI-Driven Computer Vision for the Spectroil 100 Automation Matteo Campatelli Meccoil Diagnosi Meccaniche srl Adriani Giuseppe
12:40 - 13:00	Inline Oil Condition Monitoring as a Tool to Detect Gear Pitting Djordy Van Maele Ghent University Jean Carlos Poletto · Dieter Fauconnier · Patrick De Baets
13:00 - 13:30	STAND VISIT
13:30 - 14:30	LUNCH

CONDITIONING 7

Room 0D

CHAIRPERSON: ALDARA NAVEIRA — RECONDOIL - SKF	
14:30 - 15:00	* KEYNOTE Jorge Alarcón · Bureau Veritas AI Agents in Condition Monitoring and Predictive Maintenance: Reshaping the Future of Asset Reliability
15:00 - 15:20	Novel Online Sensor Approaches for Water Contamination Detection in Lubricating Oils Bruno Pilotti Atten[2]
15:20 - 15:40	Continuous Optical Monitoring for Predictive Maintenance of Hydraulic Systems Abdelhadi KASSIMI ALME (ALKHAOUARIZMI- LUBES-MAINTENANCES-EXPERTS)
15:40 - 16:00	Mapping Degradation Pathways in Turbine Oils Under Severe Thermal Stress Douglas Purnell Fluitec International Elona Rista (Presenting Author)
16:00 - 16:20	COFFEE BREAK

CONDITIONING 8

Room 0D

CHAIRPERSON: RICCARDO COCOLA — TEKNIKER	
16:20 - 16:40	From Crisis Management to Asset Management: 4 Real Cases Where Off-line Filtration Changed the Game Bruno Sánchez C.C.Jensen Ibérica, S.L.
16:40 - 17:00	Clean Data Clean Hydraulics Best Practice Hydraulic Sampling Bernie Hall Checkfluid Inc
17:00 - 18:30	Closing Ceremony and 10th Edition Cocktail