

<b>LUBRICANTS 1</b> Room 0B	
<b>08:30 - 09:00</b>	<b>ATTENDEES REGISTRATION</b>
<b>09:00 - 09:30</b>	<b>OPENING CEREMONY</b> Adolfo Malaga (BV) · Alberto Fernández Basque Government Representative · Javier Barriga (TEK) · Ian Sherrington (JOST)
<b>CHAIRPERSON: JAVIER BARRIGA — TEKNIKER</b>	
<b>09:30 - 10:00</b>	<b>PLENARY SPEAKER: MAR COMBARROS</b> IQL <i>Where sustainability meets performance: gear oil case study.</i>
<b>10:05 - 10:30</b>	<div style="background-color: #c0504d; color: white; padding: 2px; display: inline-block; margin-bottom: 5px;">★ KEYNOTE</div> <b>Balasubramaniam Vengudusamy</b> · Klüber Lubrication München GmbH & Co. KG <b>From Tribology Challenges to Lifetime Extension - Advanced Lubrication Strategies for Modern Wind Turbines.</b>
<b>10:30 - 10:50</b>	<b>Challenges in the Analysis and Evaluation of Industrial Oils</b> <b>Stefan Mitterer</b> OELCHECK GmbH Thomas Dr. Fischer
<b>10:50 - 11:10</b>	<b>Good manners and practices for successful multivariate data analysis in oil condition monitoring (OCM)</b> <b>Alberto Villar Verguizas</b> Tekniker Jose Ignacio Ciria · Ibon Zubicaray
<b>11:10 - 11:30</b>	<b>Chemometrics as a powerful quality tool for OCM</b> <b>Jose I. Ciria</b> Lubrication Management - Bureau Veritas Ibon Zubicaray
<b>11:30 - 12:00</b>	<b>COFFEE BREAK - POSTERS PRESENTATION</b>

## LUBRICANTS 2

Room 0B

12:20 - 12:40	<b>From Thermal Stress to Varnish: Lab Tools for Lubricant Deposit Assessment</b> <b>Vincent BOUILLON</b> Eurofins BfB Oil Research
12:40 - 13:00	<b>Lubricant Varnish: What We've Learned and What We Still Don't Know</b> <b>Greg Livingstone</b> Fluitec Sanya Mathura
13:00 - 13:30	<b>STAND VISIT</b>
13:30 - 14:30	<b>LUNCH</b>

## LUBRICANTS 3

Room 0B

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

## LUBRICANTS 4

Room 0B

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

# TRIBOLOGY 1

Room 0C

CHAIRPERSON: JAVIER BARRIGA — TEKNIKER

10:00 - 10:30	<p><b>Assessment of the tribological performance of materials under high pressure hydrogen gas</b></p> <p><b>Johnny Dufils</b> IREIS / HEF Group Bogdan Munteanu · Etienne Macron</p>
10:05 - 10:30	<p>★ KEYNOTE</p> <p><b>Prof. Dr. Tim Hosenfeldt</b> · Schaeffler AG</p> <p><b>Holistic Tribology for Sustainable and Efficient Motion.</b></p>
10:30 - 10:50	<p><b>The "Tribology Literacy" Gap: Why Industry 4.0 Fails Without Culture</b></p> <p><b>Yannis Ben Mahmoud</b></p>
10:50 - 11:10	<p><b>Tribological behavior of low viscosity synthetic ester base oils for Electric Vehicles (EVs) under pure sliding electrified conditions</b></p> <p><b>Claudia Martínez de Castilla Delgado</b> Fundación Tekniker Bihotz Pinedo · Eduardo Tabares · Vanesa Alonso · Marta Hernaiz · Borja Armendariz · Ainara López-Ortega · Javier Barriga</p>
11:10 - 11:30	<p><b>Engine oil stress as a consequence of DPF regeneration on urban service vehicles and maintenance improvement aided by AI</b></p> <p><b>Bernardo Tormos</b> CMT - Clean Mobility &amp; Thermofluids (UPV) Ramón Sanchez-Marquez · Santiago Ballester · Alvaro Nueváculos</p>
11:30 - 12:00	<p><b>COFFEE BREAK - POSTERS PRESENTATION</b></p>

## TRIBOLOGY 2

Room 0C

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

## TRIBOLOGY 3

Room 0C

14:30 - 15:00	<b>★ KEYNOTE</b> <b>Anna Andersson</b> · ABB <b>Towards grease-free lubrication in electrical switching</b>
15:20 - 15:40	<b>Ageing mechanism of non-fossil base oils</b> <b>Ichiro Minami</b> Jessica Pichler · Adam Agocs · Lucia Pisarova · Marcella Frauscher · Nicole Dörr · Francesco Pagano
15:40 - 16:00	<b>Hydrogen related mechanisms influencing the galling behaviour of austenitic stainless steels in threaded components</b> <b>Beatriz Fernandez-Diaz</b> Tekniker Xana Fernández · Fernando José López-Uruñuela · Gemma Mendoza
16:00 - 16:20	<b>COFFEE BREAK</b>

## TRIBOLOGY 4

Room 0C

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: JAVIER BARRIGA — TEKNIKER

10:05 - 10:30	<p>★ KEYNOTE</p> <p><b>Marc Vila Forteza</b> · Petronor</p> <p><b>A Proportional Hazards Models perspective on MTBF estimation for centrifugal pumps</b></p>
10:30 - 10:50	<p><b>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</b></p> <p><b>Rafael Diaz</b> RMSH Rafael Antonio Diaz Giron · Israel Sanchez · Marco Suárez (Presenting Author)</p>
10:50 - 11:10	<p><b>Optimizing the Life Cycle of Online Oil Sensors: Installation, Maintenance Strategies and Performance Management</b></p> <p><b>Guillermo Miró</b> Atten2 Advanced Monitoring Technologies SL</p>
11:10 - 11:30	<p><b>Lessons Learned from Online Oil Contamination Monitoring</b></p> <p><b>Jan Novák</b> KLEENTEK, spol. s r.o.</p>
11:30 - 12:00	<b>COFFEE BREAK - POSTERS PRESENTATION</b>

## CONDITIONING 2

Room 0D

12:00 - 12:20	<b>Maintenance 5.0</b> <b>Riccardo Tognoni</b> BETA FILTRATION
12:20 - 12:40	<b>Reducing Commissioning and Downtime Through Advanced Flushing and Lubrication System Cleaning Techniques</b> <b>Cristian Schmid</b> Sicelub Ibérico SL
12:40 - 13:00	<b>Lubrication Practices, Condition vs. Assumption</b> <b>Haris Trobradovic</b> SDT Ultrasound
13:00 - 13:30	<b>STAND VISIT</b>
13:30 - 14:30	<b>LUNCH</b>

## CONDITIONING 3

Room 0D

14:30 - 15:00	<b>★ KEYNOTE</b> <b>Sofia Bastidas</b> · Virtual Vehicle <b>Investigating combustion engine wear during running-in and an overview of journal bearing performance prediction using a hybrid model approach.</b>
15:00 - 15:20	<b>The dilemma between being or seeming.</b> <b>José Luis Nuño Martos</b> AceX Consulting Group
15:20 - 15:40	<b>Integrating Fluid Analysis with CMMS &amp; Business Systems (+Case Studies)</b> <b>Gwyn Simmonds</b> POLARIS Laboratories Europe
15:40 - 16:00	<b>Trends in Used Oil Analysis: Insights from MOL-LUB's Diagnostic Laboratory Over the Last Decade</b> <b>Mária Valentné Dr. Sutyinszki</b> MOL-LUB Ltd.
16:00 - 16:20	<b>COFFEE BREAK</b>

## CONDITIONING 4

Room 0D

16:20 - 16:40	<b>Modern grease analysis in industry</b> <b>Wojciech Jewula</b> Ecol Sp. z o.o. Jakub Chłodek · Wojciech Majka · Piotr Farbiszewski
16:40 - 17:00	<b>Lubrication Management in CEE II Overview</b> <b>Zoltán Kecskés</b> MOL-LUB Ltd
17:00 - 17:20	<b>The Hidden Value in Your Machines: How Lubrication and Reliability Turn Assets into Profit</b> <b>Remigio Domenico Sena Mesa</b> PRAGMA AMERICAS
END OF SESSION	
20:30 - 23:30	<b>Gala Dinner: The Artist Grand Hotel of Art</b>