Language

Program

International Conference on Tribology and Sustainable Lubrication

nextlub

20 – 21 January 2027
Kongresshalle am Zoo, Leipzig

Organized by

FVA sharing drive innovation

GfT Gesellschaft für Tribologie e.V.

UNITI

www.nextlub.com Contact: René Löser · T +49 30 755 414 400 · loeser@uniti.de

WELCOME

Ladies and gentlemen

On behalf of FVA e. V., GfT e. V. and UNITI e.V. with the advisory board, we would like to invite you to nextlub 2027 in Leipzig!

3rd International Conference on Tribology and Sustainable Lubrication

Sustainability, ecological, and geopolitical demands create new challenges for tribologists and lubrication experts. The 3rd nextlub conference aims to promote innovative technologies and close knowledge gaps.

Organizers

FVA GmbH
Gesellschaft für Tribologie e. V.
UNITI Services GmbH

Contact

UNITI Services GmbH
Jägerstraße 6, 10117 Berlin
Contact person: René Löser
Tel.: +49 30 755 414-400
Fax: +49 30 755 414-474
Mail: loeser@uniti.de
www.nextlub.com

Date of Congress

20-21 January 2027

Venue

KONGRESSHALLE am Zoo Leipzig
Pfaffendorfer Straße 31
04105 Leipzig
GERMANY
www.kongresshalle.de

Registration

Online registration is available at www.nextlub.com

Fees do not include VAT.

• Speakers (both days)	€ 545,00
• Members (both days)	€ 1,045.00
• Non-members (both days)	€ 1,145.00
• University affiliates (both days)	€ 895,00
• Single-day ticket (members), day 1 (20 January)	€ 670,00
• Single-day ticket (members), day 2 (21 January)	€ 670,00
• Single-day ticket (non-members), day 1 (20 January)	€ 745,00
• Single-day ticket (non-members), day 2 (21 January)	€ 745,00

A congress ticket includes the entrée of the congress, beverages, lunch, a get-together and congress documents. The number of participants is limited.

Cancellation

You have a free cancellation until **December 21, 2026**. After this deadline a cancellation free of charge is not possible anymore. If you are unable to attend, we will accept a substitute delegate with no extra fee.

Hotel / Accommodation

We blocked several call-in allotments (code word: "nextlub") at following hotels. Please make your individual reservation at your preferred hotel. After cutoff date and/or the room allotment is fully booked further rooms can be booked upon request and subject to availability at current daily rate.

We would like to point out that the city of Leipzig levies an accommodation tax. The amount due is calculated from 5 % of the accommodation price (without breakfast) and is to be paid at the hotel after departure. The hotel pays the accommodation tax directly to the city of Leipzig, note that. This tax is not including the following accommodation rates.

HOTELS

The Westin Leipzig
Gerberstraße 15
04105 Leipzig

Distance to venue:	450 m (about a 6 minute walk)
Rates:	€125.40 single room per night, incl. breakfast €145.80 double room per night, incl. breakfast
Code	nextlub2027 upon request, subject to availability
Booking contact:	Tel: +49 (0)341 988 1629 Email: reservation@westin-leipzig.com

See www.nextlub.com for a link to book accommodation at **The Westin**

Leipzig Marriott Hotel
Am Hallischen Tor 1
04109 Leipzig

Distance to venue:	900 m (about a 13 minute walk)
Rates:	€139.00 single room per night, incl. breakfast €159.00 double room per night, incl. breakfast
Code	nextlub
Booking contact:	Tel: +49 (0)341 9653-0 Email: leipzig.marriott@marriotthotels.com

See www.nextlub.com for a link to book accommodation at **Leipzig Marriott Hotel**

Best Western Hotel Leipzig City Center
Kurt-Schumacher-Straße 3
04105 Leipzig

Distance to venue:	800 m (about a 11 minute walk)
Rates:	€110.00 single room per night, incl. breakfast €120.00 double room per night, incl. breakfast
Code	nextlub
Booking contact:	Tel: +49 (0)341 1251 0 Email: info@bestwestern-leipzig.de

IntercityHotel Leipzig
Tröndlinring 2
04105 Leipzig

Distance to venue:	700 m (about a 9 minute walk)
Rates:	€99.00 single room per night, incl. breakfast €119.00 double room per night, incl. breakfast
Code	nextlub
Booking contact:	Tel: +49 (0)341 308 661 888 Email: reservations.leipzig@intercityhotel.com

Travel24 Hotel Leipzig-City
Tröndlinring 9
04105 Leipzig

Distance to venue:	450 m (about a 6 minute walk)
Rates:	€79.00 single room per night, excl. breakfast €89.00 double room per night, excl. breakfast Breakfast will be charged with €16.00 per person and day
Code	nextlub
Booking contact:	See www.nextlub.com for a link to book accommodation at **Travel24 Hotel**

PROGRAM

20 January 2027

Plenary

9:00 – 9:15	**Welcome / opening** FVA, GfT, & UNITI
9:15 – 09:45	**– Title to be announced later –** Dr. Matthias Schweinsberg FUCHS LUBRICANTS GERMANY GmbH, FUCHS SE
09:45 – 10:15	**Digital Transformation of the Flender One Gearbox Platform** Dr. Christoph Bugiel Flender International GmbH

10:15 – 11:15 Networking break

From 11:15	**3 parallel sessions in Rooms I – III**

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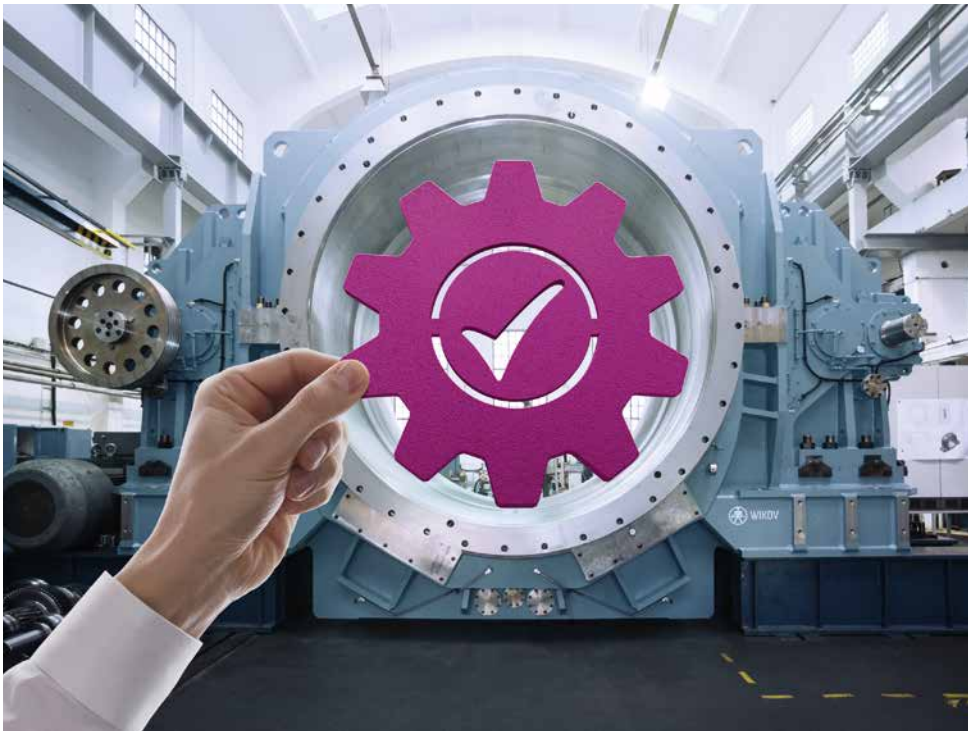

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PROGRAM

20 January 2027

	ROOM I	ROOM II	ROOM III
	Lubricants in Electric Drivetrains	**Condition Monitoring**	**Latest Base Oils and Additive Technologies (I)**
11:15 – 11:45	**Electrical Potential in Lubricated Tribological Contacts: Considerations for Interfacial Chemistry** Dr. Rai Notay Lubrizol Limited	**Ultrasound-Based MEMS Sensor for Fluid Characterization in Monitoring Applications** Dr.-Ing. Lars Kanzenbach Fraunhofer Institute for Machine Tools and Forming Technology IWU	**Multifunctional Ashless AW/EP Additives as Sustainable High-Performance Alternatives to TPPT for Demanding Industrial Lubricant Applications** Dr. Sandra Horstmann LANXESS Deutschland GmbH
11:45 – 12:15	**A Chemical Perspective on Optimizing EV Transmission Fluids with Low-Viscosity Esters** Isobel Priest Patech Europe B.V.	**Oil Degradation Markers in FTIR Spectra and Their Correlation with Tribological Performance** Richard Heinlein TU Mannheim, Institute for Materials Science and Engineering IMaSE	**Lubrication Technology Based on Silicone Oil – Extreme Operating Conditions, Testing, and Applications** Verena Leumann Setral Chemie GmbH
12:15 – 12:45	**Project DAEDALUS – Electric Driveline Fluids (EDF) that Guarantee the Highest Possible Gearbox Efficiency** Dr. Marvin Nathusius FUCHS LUBRICANTS GERMANY GmbH Dr. Christopher Cleveland Afton Chemical Ltd.	**Sensor-Based Lubrication Monitoring for Enhanced Information Content in Standard Rolling Bearing Tests** Dr. Christoph Wincierz HCP Sense GmbH	**A Low-Viscosity Sustainable Polyol Ester for Thermal Management and Dielectric Applications** René Abrahams Perstorp Group

12:45 – 14:00 Lunch break

	Energy Efficiency – Measures, Scale, Simulation	**Tribosystems / Lubrication**	**Lubricants in Electric Drivetrains**
14:00 – 14:30	**Unlocking the Potential of Group III Base Oils with Innovative Synthetic Base Oils: A Sustainable and Cost-Effective Solution for Industrial Gear Applications** Dr. Katrin Schoeller Evonik Operations GmbH Pascal Calin SEW-EURODRIVE GmbH & Co. KG	**Accelerating the Design of Safe and Sustainable Lubricant Additives with Reactive Molecular Dynamics** Dr. Stefan J. Eder AC2T research GmbH	**Advanced Lubricant Engineering for Electric Axle Systems: Balancing Viscosity Reduction with Gear and Bearing Durability and Enabling Higher Levels of System Integration** Dr. Christian Nörnberg Castrol Germany GmbH

PROGRAM

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	ROOM I	ROOM II	ROOM III
14:30 – 15:00	**Reproducible Hypoid Gear Test Approach to Evaluate the Performance of Highly Additivated Transmission Oils** Maximilian Rösner TU Munich, Gear Reserach Center FZG	**Triboacoustic Pin: A Novel Sensor for Online Sensing of Lubricant Film Thickness** Dr. Michele Schirru AC2T research GmbH	**Wet Brakes in eAxles for Passenger Cars –A Lubricant Point of View** Dr.-Ing. Matthias Hensel Afton Chemical GmbH
15:00 – 15:30	**Energy-Efficient Lubricants – Measurable CO_2 and Energy Savings for Industry** Marcel Liß Klüber Lubrication Deutschland GmbH & Co. KG	**Decarbonization of the Energy Sector – Lubricant and Material Selection for Gas Engines Fueled with Ammonia** Dr. Marcella Frauscher AC2T research GmbH	**On the Electrical Conductivity of Lubricating Greases** Dipl.-Ing. Frank Reichmann Carl Bechem GmbH

15:30 – 16:00 Networking break

	New Energy Carriers	Lubricants in Electric Drivetrains / Condition Monitoring	Regulatory Compliance
16:00 – 16:30	**Effects of Alternative Fuels on Tribological Performance in Plain Bearings** Sebastian Kirchhamer Miba Gleitlager Austria GmbH	**From Reactive Testing to Predictive Tribology: Designing Screening Platforms for Reliable Lubricant Decision-Making** Dr. Ksenija Topolovec Miklozic POWERTRIB Ltd	**PFAS-Free High-Performance Polymer Additives for Sustainable Lubricant Greases** Dr.-Ing. Martin Eilermann Evonik Operations GmbH
16:30 – 17:00	**Tribological Investigations of Lubricants for Hydrogen Engines: A Comparison of Mineral Oil and PAG Oil** Dr. Peter Berlet IAVF Antriebstechnik GmbH	**Performance of EV Fluids in the A10/16.6R/90 Scuffing Test** Dr.-Ing. Dieter Mevissen RWTH Aachen, Laboratory for Machine Tools and Production Engineering WZL	**(MÜNZING's) New MOSH/MOAH and PFAS-Free Antifoam Technology for Non-Aqueous Lubricants** Safia Peerzada MÜNZING North America

PROGRAM

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	ROOM I	ROOM II	ROOM III
17:00 – 17:30	**Influence of Ammonia on Engine Lubricating Oil and Selected Component Materials** Celina Hannemann University of Rostock Department of Piston Machines and Internal Combustion Engines LKV	**Color-Based Degradation Diagnosis of Grease in Rolling Bearings: A Simple, Field-Deployable Method for Quantitative Condition Monitoring** Elzbieta Wozniak NSK Polska Sp. z o.o.	**Substitution of Critical Lubricant Components: Eliminating PFAS and Substances of Very High Concern in the Bosch Lubricant Portfolio** Dr. Markus Matzke Robert Bosch GmbH

17:30 End of day 1, after-work drink

19:00 Gala dinner at Kongresshalle am Zoo, Leipzig

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PROGRAM

21 January 2027

Plenary

8:45 – 9:00	**Presentation of the Richard Stribeck medal** Rolf Luther Gesellschaft für Tribologie e. V. (GfT)
9:00 – 09:30	**Navigating the Future of Lubrication: Challenges and Opportunities** Dr. Jennifer Holtzinger Evonik Operations GmbH
09:30 – 10:00	**Emerging Trends in the Tribology and Lubrication Industry** Steffen Bots ADDINOL Lube Oil GmbH

10:00 – 11:00 Networking break – 3 parallel sessions in Rooms I – III

	ROOM I	ROOM II	ROOM III
	Wind Turbines / Wind Power	**Bio-Lubricants and Lubricants with Improved Environmental Compatibility**	**Life Cycle Analysis (LCA)**
11:00 – 11:30	**Advanced Polyurea Grease Technology in Windpower Applications – Improving Performance and Sustainability at the Same Time** Harald Willrich FUCHS LUBRICANTS GERMANY GMBH	**Feasibility Study of Oil from the Black Soldier Fly as a Sustainable High-Capacity Lubricant** Kai Weigel Fraunhofer Institute for Surface Engineering and Thin Films IST	**Closing the Loop – Lubricant End-of-Life, Handprint, and Avoided Emissions as Key Levers in Sustainable Lubrication** Joris van der List Q8Oils
11:30 – 12:00	**Extending Gearbox Oil Life in Wind Turbines: Technical Evolution, Qualification, and Sustainability Perspectives at Vestas Wind Systems** Ole Lund Jensen Vestas Wind Systems A/S	**How Potato Peels Converted into Synthetic Esters Leads to Base Oils with Improved Performance and Significantly Lower Carbon Footprint** Sabrina Zaini ChainCraft	**From Product Carbon Footprints to Handprint: Enabling Credible Impact Assessment Through Integrated PCF Data** Benn Heatley Afton Chemical GmbH

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	ROOM I	ROOM II	ROOM III
12:00 – 12:30	**High Detailed CFD Analysis and Heating Procedure Optimization of Wind Turbine Gearbox during Cold-Start Condition using Smooth Particle Hydrodynamics (SPH)** Solomon Jerald Antony Swamy, NGC Transmission Europe GmbH	**Lipase-Catalyzed Synthesis of Bio-Based TMP Esters from Residual Streams of Vegetable Oil Refining** Dr. Melanie Platzer Fraunhofer Institute for Process Engineering an Packaging IVV	**Sustainable Lubricants for Sustainable Solutions** Ulrike Dellwo Schaeffler Technologies AG & Co. KG Dr. Kay Juckelandt Schaeffler Technologies AG & Co. KG

12:30 – 13:30 Lunch break

	Elastomers	Inerting Lubrication / Condition Monitoring	Latest Base Oils and Additive Technologies (II)
13:30 – 14:00	**PFAS-Free Sealing Solutions for Industrial Gearboxes** Dr. Matthias Adler Freudenberg Sealing Technologies GmbH & Co. KG Katrin Alt SEW-EURODRIVE GmbH & Co KG	**Lubricant Inerting: a Sustainable Strategy for Improving Lubricant Life** Janet Wong Imperial College London Mechanical Engineering Department	**Alkylated Naphthalenes as Base Oil Modifiers for High Temperature Applications** Amanda Harris King Industries, Inc.
14:00 – 14:30	**Testing Procedure for Elastomer-Lubricant Compatibility on a Tribometer for Radial Shaft Seals** Laura Stubbe RPTU Kaiserslautern-Landau, Chair of Machine Elements, Gears and Tribology MEGT	**Effects of Inertia on the Lubricant Flow of Dynamically-Loaded Journal Bearings** Dr.-Ing. Marcus Schmidt HAWK, Faculty of Engineering and Health	**Tribological Performance of Esters – Opportunities and Risks** Dr. Oliver Heipl ZF Friedrichshafen AG
14:30 – 15:00	**Understanding Seal End-of-Life: The Influence of Lubricants and Methods for Lifetime Prediction** Dipl.-Ing. Timo Richter OPR Group GmbH	**Formation of Wear-Protective Tribofilms in Rolling Contacts Influenced by Corrosion Inhibitors** Merle Reimers RWTH Aachen, Institute for Machine Elements and Systems Engineering MSE	**Breaking Barriers in Additive Chemistry: Unlocking the Next Generation of Lubrication Solutions** Dr. Stephan Wieber Evonik Operations GmbH

15:00 – 15:30 Networking break

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	ROOM I	ROOM II	ROOM III
	Lubricant Applications	**Tribosystems / Lubrication**	**Safe and Sustainable by Design (SSbD)**
15:30 – 16:00	**Towards Green Tribology: Bio-Greases for Rolling Bearing Applications** Prof. Dr.-Ing. Max Marian Leibniz University Hannover, Institute of Machine Design and Tribology IMKT	**Improving Environmental and Economic Performance in Metalworking: Life Cycle Assessment (LCA) of Additive-Enabled Lifetime Extension in Metalworking Fluids** Dr. Sabine Wohlfahrt Kao Chemicals Europe	**Simulation Tools for the Design of Safe and Sustainable Lubricants – SiToLub Platform to Ensure Lubricants' Functionality and Tribological Performance** Dr. Lucia Pisarova, AC2T research GmbH
16:00 – 16:30	**Thermal Behavior and Efficiency of Grease and Oil Lubrication in Low-Speed Applications** Felix Müller RPTU Kaiserslautern-Landau, Chair of Machine Elements, Gears and Tribology MEGT	**A Model-Based Control Approach for Operating Parameters to Enhance the Energy Efficiency of Lubricated Tribological Systems** Lars Knipschild TU Dortmund, Chair of Design and Product Development LKP	**Towards Safe and Sustainable by Design Lubricants: Linking Tribology with Life Cycle Sustainability Assessment** Dr. Jonas Hoffmann, GreenDelta GmbH

16:30 Coffee-to-go/end of Congress

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