

conference language



program

International Conference
on Tribology and Sustainable Lubrication

nextlub

20 – 21 January 2027

Kongresshalle am Zoo, Leipzig

Organized by



sharing drive innovation



Gesellschaft für
Tribologie e.V.



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

WELCOME

Ladies and gentleman

On behalf of FVA e.V., GfT e.V. and UNITI e.V. with the advisory board would like to invite you to the 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. Promoting appropriate innovative technologies and closing knowledge gaps are the intentions of the 3rd nextlub conference.

Organizers

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

Contact

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Date of Congress

January 20 – 21, 2027

Venue

Nextlub 2027
KONGRESSHALLE am Zoo Leipzig
Pfaffendorfer Straße 31
04105 Leipzig
GERMANY
www.kongresshalle.de

Registration Fee

Online registration available at www.nextlub.com

All fees will be charged additional VAT.

• Speakers (both days)	€ 545.00
• Members (both days)	€ 1.045.00
• Non-Members (both days)	€ 1.145.00
• University Participant (both days)	€ 895.00
• Day ticket Members 1 st day (January 22)	€ 670.00
• Day ticket Members 2 nd day (January 23)	€ 670.00
• Day ticket Non-Members 1 st day (January 22)	€ 745.00
• Day ticket Non-Members 2 nd day (January 23)	€ 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 6 minutes to walk)
Rates: €125,40 per single room and night, incl. breakfast
€145,80 per double room and night, incl. breakfast

Code word nextclub2027
rooms can be booked for this rate upon request and subject to availability

Booking contact: Tel: +49 (0)341 988 1629
Email: reservation@westin-leipzig.com

The web link for your individual accommodation at **The Westin** you will find at www.nextclub.com

Leipzig Marriott Hotel **Am Hallischen Tor 1** **04109 Leipzig**

Distance to venue: 900 m (about 13 minutes to walk)

Rates: €139,00 per single room and night, incl. breakfast
€159,00 per double room and night, incl. breakfast

Code word nextclub

Booking contact: Tel: +49 (0)341 9653-0
Email: leipzig.marriott@marriott-hotels.com

The web link for your individual accommodation at **Leipzig Marriott Hotel** you will find at www.nextclub.com

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

Distance to venue: 800 m (about 11 minutes to walk)

Rates: €110,00 per single room and night, incl. breakfast
€120,00 per double room and night, incl. breakfast

Code word nextclub

Booking contact: Tel: +49 (0)341 1251 0
Email: info@bestwestern-leipzig.de

IntercityHotel Leipzig **Tröndlinring 2** **041405 Leipzig**

Distance to venue: 700 m (about 9 minutes to walk)

Rates: €99,00 per single room and night, incl. breakfast
€119,00 per double room and night, incl. breakfast

Code word nextclub

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 6 minutes to walk)

Rates: €79,00 per single room and night, excl. breakfast
€89,00 per double room and night, excl. breakfast

Breakfast will be charged with €16,00 per person and day

Code word nextclub

Booking contact: Please find the booking form of Travel24 Hotel at our webpage

PROGRAM

20 January 2027

Plenary

9:00 – 9:15

Welcome / Opening

FVA, GfT & UNITI

9:15 – 09:45

– title will be announced later –
Dr. Matthias Schweinsberg
FUCHS LUBRICANTS GERMANY GmbH, FUCHS SE

09:45 – 10:15

Digital Transformation of Flender One Gearbox Platform
Dr. Christoph Bugiel
Flender International GmbH

10:15 – 11:15 Networking break

From 11:15

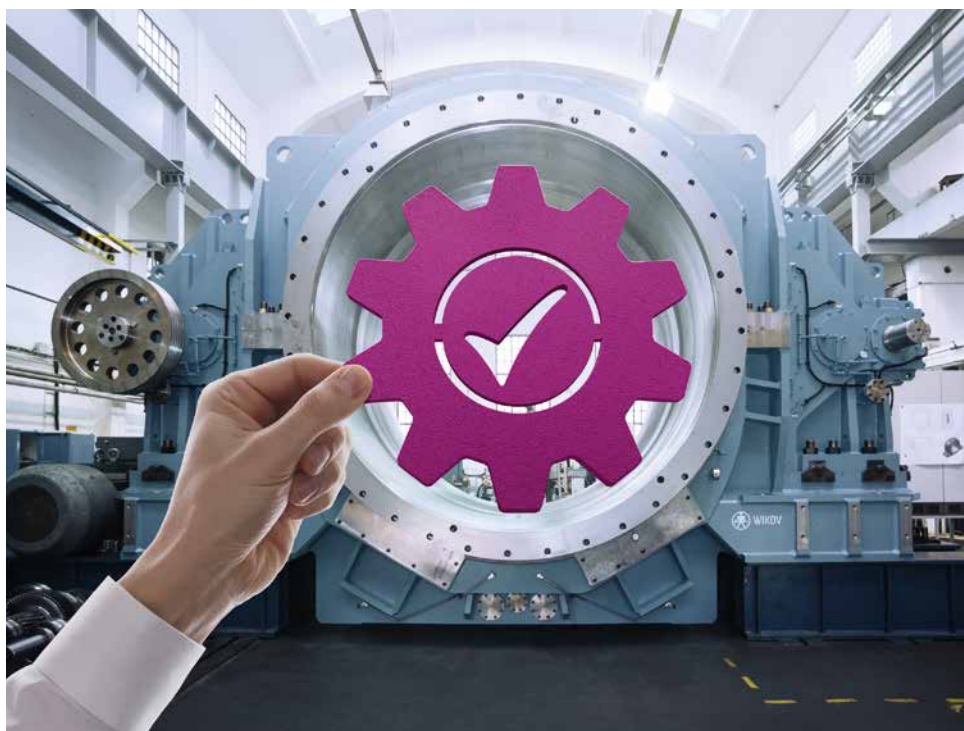
3 parallel sessions at Room I – III

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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 FINE CHEMICALS CO., LTD.	Oil Degradation Markers in FTIR Spectra and Their Correlation with Tribological Performance Richard Heinlein Technical University of Applied Sciences Mannheim	Lubrication technology based on silicone oil – extreme operation conditions, testing and application Verena Leumann Setral
12:15 – 12:45	Project DAEDALUS – Electric Driveline Fluids (EDF) that guarantee the highest possible gear box efficiency Dr. Marvin Nathusius FUCHS Lubricants Germany GmbH	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
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 system integration level. Dr. Christian Nörnberg Castrol Germany GmbH

PROGRAM

20 January 2027

	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 Institute of Machine Elements of the Technical University of Munich, FZG	Triboacoustic Pin: a novel sensor for online sensing of lubricant film thickness Michele Schirru AC2T research GmbH	Wet Brakes in eAxles for passenger cars – from a Lubricant Point of View Dr.-Ing. Matthias Hensel Afton Chemical
15:00 – 15:30	Energy-Efficient Lubricants – Measurable CO₂ and Energy Savings for Industry Marcel Liß Klüber Lubrication Deutschland GmbH & Co. KG	Decarbonisation of the energy sector – Lubricant and material selection for gas engines fuelled with ammonia 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 Decisions Dr. Ksenija Topolovec Miklozic POWERTRIB Limited	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. René Greschert WZL of RWTH Aachen University	(MÜNZING's) New MOSH/ MOAH and PFAS Free Antifoam Technology for Non-Aqueous Lubricants Dr. Thomas Hurrle MÜNZING Chemie GmbH

PROGRAM

20 January 2027

	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	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.	Eliminating Critical Lubricant Components: Substitution of PFAS and Substances of Very High Concern in the Bosch Lubricant Portfolio Dr. Markus Matzke Robert Bosch GmbH

17:30 End 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	Überreichung / Laudatio Richard-Stribeck-Medaille 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 at Room 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	Feasability study of oil from the black soldier fly as a sustainable high-capacity lubricant Kai Weigel Fraunhofer Institut für Schicht- und Oberflächentechnik	Closing the Loop – Lubricant End-of-Life, Handprint, and Avoided Emissions as Key Levers in Sustainable Lubrication Joris van der List Q8
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 lowered carbon footprint Sabrina Zaini ChainCraft	From Product Carbon Footprints to Handprint: Enabling Credible Impact Assessment Through Integrated PCF Data Benn Heatley Afton Chemical

PROGRAM

21 January 2027

	ROOM I	ROOM II	ROOM III
12:00 – 12:30	Numerical investigation of the influence of oil viscosity on the time-to-grid of wind turbine gearboxes under cold-climate conditions Martin Cardaun 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 and Packaging IVV	Sustainable Lubricants for Sustainable Solutions Ulrike Dellwo 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 FST GmbH	Lubricant Inerting: a sustainable strategy for improving lubricant life Janet Wong Imperial College London	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	Effects of inertia in 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 tribological boundary layers in rolling contacts influenced by corrosion inhibitors Merle Reimers Institute for Machine Elements and Systems Engineering (MSE), RWTH	Breaking Barriers in Additive Chemistry: Unlocking the Next Generation of Lubrication Solutions Dr. Stephan Wieber Evonik Operations GmbH
15:00 – 15:30 Networking break			

PROGRAM

21 January 2027

	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 Institute of Machine Design and Tribology (IMKT), UNI Hannover	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	Towards Safe and Sustainable by Design Lubricants: Linking Tribology with Life Cycle Sustainability Assessment Dr. Jonas Hoffmann GreenDelta GmbH
16:00 – 16:30	Thermal Behavior and Efficiency of Grease and Oil Lubrication in Low-Speed Applications Felix Müller RPTU University of Kaiserslautern-Landau	A model-based control approach for operating parameters to enhance the energy efficiency of lubricated tribological systems Lars Knipschild Technische Universität Dortmund	Simulation tools for the design of safe and sustainable lubricants – SiToLub platform to ensure lubricant's functionality and tribological performance ... Dr. Francesco Pagano TEKNIKER

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

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