

Submission Requirements

Please submit your presentation

- » Please submit your presentation using the online form at www.nextlub.com.
- » Abstracts must be assigned to one of the main topics and include the name, address, telephone number, and e-mail address of all authors.
- » Abstracts of accepted presentations will be published in the conference proceedings. Conference participants will receive a link to download all approved presentations following the event.

Languages

- » The conference will be held in English.
- » Each presentation is allocated 20 minutes of speaking time and 5 minutes for discussion.
- » Presentation slides must be in English.

Manuscripts

- » Manuscripts will be published in the conference proceedings.
- » The opportunity to publish in a peer-reviewed MDPI Lubricants Special Issue.

Process

- » All abstracts will be submitted to the program committee for selection. The extended abstract (2x DIN-A4 pages including illustrations) of all accepted presentations will be published in the conference proceedings.

Benefits for Speakers

- » Significantly reduced participation fee. Free copy of the conference proceedings.

Key Deadlines

- » Deadline for abstracts: March 31, 2026

extend until May 4, 2026

Organisation

Steering Committee

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Dr. Thomas Gradt, Gesellschaft fuer Tribologie e. V.
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Dr.-Ing. Mathias Woydt, Matrilub

Contact

René Löser
T +49 30 755 414 400
loeser@uniti.de

International
Conference on
Tribology and
Sustainable Lubrication

nextlub 

January 20 – 21, 2027, Leipzig, Germany

Call for papers

Submission deadline for abstracts:
March 31, 2026 **extend until May 4, 2026**

Location

KONGRESSHALLE am Zoo, Leipzig
Pfaffendorfer Strasse 31
04105 Leipzig
Germany

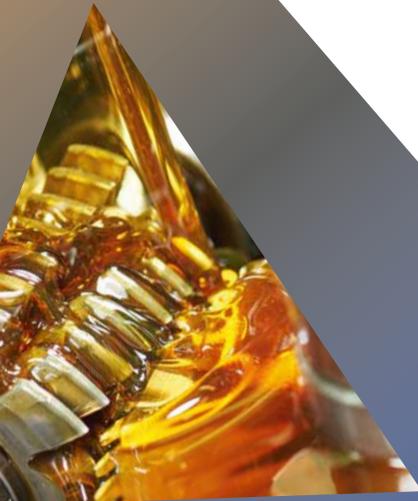
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Invitation

Ladies and gentlemen,

Climate change, the depletion of raw materials, and the growing demands for human health protection are just a few of the pressing challenges tied to the United Nations' Sustainable Development Goals. These global issues concern all sectors of society – including the lubricant industry and tribological research.

Today, sustainability-related criteria are becoming just as important as functional specifications in the selection of lubricants and tribological systems. Finding the most sustainable solutions is a complex task that demands a holistic, life-cycle-based approach. Energy efficiency and product longevity are gaining prominence, often outweighing purely financial considerations. The circular economy offers pathways to mitigate material shortages, while the substitution of raw materials presents both opportunities and challenges for research and supply chains.

In this context, the complexity of tribological systems opens the door for advanced AI methods, enabling more precise and reliable simulations. The concept of digital twins for lubricants is no longer a distant vision – it is becoming a tangible reality. The **1st nextlub Conference** in 2023 marked a milestone in aligning tribology and lubrication with sustainability. The **2nd edition in 2025** built on that momentum, fostering high-quality contributions and vibrant discussions.

Now, we are excited to announce **the 3rd International Conference on Tribology and Sustainable Lubrication – nextlub**, which will take place in Leipzig, January 2027. Once again, we invite scientists and practitioners, academia and industry, tribologists and lubrication experts from around the world to come together. The conference will serve as a platform to share innovative ideas, emerging concepts, and disruptive solutions.

Through lectures and discussions, we aim to bridge knowledge gaps and advance the understanding of sustainability in friction, wear, and lubrication – ultimately contributing to the development of responsible and forward-looking technologies.

We look forward to your participation and to shaping the future of sustainable tribology together.

Topics

- » Latest Base Oils and Additive Technologies (Renewable and Recycled Raw Materials, etc.)
- » Bio-Lubricants and Lubricants with Improved Environmental Compatibility
- » Lubricants in Electric Drivetrains
- » Lubricants for Heat Pumps (Properties of Coolant-Oil-Mixtures)
- » Lubricants for New Energy Carriers (H_2 , NH_3 , LOHC, etc.)
- » Advanced Materials & Coatings
- » Thermal Properties of Lubricating Fluids
- » Electrical and Electromagnetic Properties of Fluids
- » Superlubricity / Minimized Friction / Resource Conservation by Wear Protection
- » Artificial Intelligence Methods in Tribology
- » Digital Twin of Lubricants
- » Inline & Off-line Condition Monitoring
- » Databases and Data Analysis
- » Energy Efficiency – Measure, Scale, Simulation
- » Maintenance, Repair and Overhaul (MRO)
- » Long-Life / Extended Drains
- » End-of-Life Treatment
- » Life Cycle Analysis (LCA)