

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.

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: April 30, 2024

Organisation

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International
Conference on
Tribology and
Sustainable Lubrication

nextlub 

January 22 – 23, 2025, Leipzig, Germany

Call for papers

Submission deadline for abstracts:
April 30, 2024

Location

KONGRESSHALLE am Zoo, Leipzig
Pfaffendorfer Strasse 31
04105 Leipzig
Germany

Organized by

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Invitation

Ladies and gentlemen,

Climate change, exhausting sources of raw materials, increasing demands on human health protection are only some of the challenges related to the sustainable development goals of the United Nations. As all society is concerned, the lubricant industry and tribological research is it as well. Additional selection criteria for lubricants and tribological systems come on top of the functional specifications, which dominate the regulation systems today.

The search for the best solution in matters of sustainability is complex, it requires an holistic approach to entire life cycle. Energy efficiency becomes an even more important feature and prolonging the lifetime of products more than financial aspects. Circular economy helps to overcome material shortages. Finally, substitution of raw materials for better sustainability will challenge research and supply chain. For tribological systems with their high degree of complexity AI methods open new horizons for calculations and simulations with improved precision and reliability. Even digital twins of lubricants seem to be possible.

The 1st nextlub conference in 2023 has set a landmark for sustainability in the lubricant industry and tribology research. We would like to keep the momentum with high-quality papers and very engaged discussions and look forward for an even broader international and global participation at the **2nd International Conference on Tribology and Sustainable Lubrication – nextlub** to be held **January 22–23, 2025** in **Leipzig, the city of Johann Sebastian Bach**.

The conference will bring together scientists and practitioners, universities and industry, tribologists and lubrication experts to present their ideas, latest concepts, evolutions and disruptive solutions. The lectures and discussions will close gaps in understanding the sustainability aspects of friction, wear and lubrication as well as propose appropriate technology.

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 (H₂, NH₃, 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)