



Lubrication Fundamentals: Call for Abstracts

The Lubrication Fundamentals Technical Committee invites experimental, theoretical, computational, modeling, data-driven, and case-study papers that advance the fundamental understanding of lubricant behavior and tribological performance. Topics of interest include, but are not limited to:

- **Additives, Tribofilms & Surface Tribochemistry**
- **Friction, Wear & Lubrication Regime Fundamentals**
- **Surface-Bulk Interactions & Structure-Function Relationships**
- **Cleanliness, Deposits, Sludge & Varnish Control**
- **Lubricant Aging, Contamination & Performance Retention**
- **Fuel Economy, Efficiency & Energy Loss Reduction**
- **Electrified Mobility & Emerging Powertrain Tribology**
- **Future Fuels & Reactive Lubrication Environments**
- **Sustainable, Circular & Next-Generation Lubricants**
- **Nano-Engineered & Advanced Lubrication Systems**
- **Predictive Testing, AI & Mechanism-Based Modeling**
- **Industrial Case Studies Grounded in Fundamentals**

Special Panel Session: Future Fuels and Reactive Atmosphere Tribology

Connecting: Power Generation, Marine, Engine Oil, Tribochemistry, Surface Analysis.

Scope: ammonia, hydrogen, NOx, methane, gas pressure, lubricant wetting, additive degradation, tribofilm chemistry.

Please check the Session “Lubrication Fundamentals”.

For questions related to Lubrication Fundamentals abstract submissions:

Please contact (PSC) Humaun Kabir (mkhumaun@tamu.edu) or (vice-PSC): Philip Ma (philip.ma@basf.com)

For more information and to submit your abstract, visit www.stle.org/annualmeeting.