



AI IN TRIBOLOGY SESSION

CALL FOR ABSTRACTS

May 18th-23rd, 2024 Minneapolis Convention Center, Minneapolis, Minnesota, USA

Dear Friends and Colleagues,

The AI in Tribology technical committee invite you to present your research at the **AI in Tribology Sessions** of the 78th STLE Annual Meeting & Exhibition – a premier event for the tribology and lubricants communities to be held in-person. At STLE 2024, the AI in Tribology sessions aim to showcase the leading edge work held in the areas of Artificial-Intelligence (AI) tools such as machine learning (ML), deep learning and various other optimization techniques for addressing and/or accelerating solutions related to the area of tribology.

The format of the conference offers 20-minute or 40-minute podium presentation slots and a student poster competition. You may submit an abstract to the AI in Tribology sessions through STLE's online abstract submission portal: <https://stle2024.abstractcentral.com>.

The abstracts will be peer reviewed and the acceptance will be based on the content and overall program balance. Remember to indicate **AI in Tribology** as your topic during the abstract submission process. Authors will be given the opportunity to request a 20-minute presentation slot or a 40-minute presentation slot when submitting the abstract. Please note that the deadline for submission is Monday, October 2nd, 2023.

Suggested topics include, but are not limited to:

- Approaches to develop well-curated data for tribology
- Use of AI or ML to predict tribological characteristics
- Use of AI or ML to design lubricated systems
- Predictive analysis, online condition monitoring using AI or ML
- Accelerated approaches for Tribology material discovery or lubrication formulations
- Applications of data and image informatics in tribology

Please feel free to forward this to your colleagues who might be interested in the AI in Tribology sessions. For all questions on the AI in Tribology Session, please contact:

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Important Deadlines:

Deadline for Abstracts: October 2, 2023.

Deadline for Early Career Poster and Student Poster Competition Abstracts: March 13, 2024.

Deadline for Student and Early Career Awards: December 1, 2023.