



TRIBOCHEMISTRY
A JOINT SESSION BETWEEN
NANOTRIBOLOGY AND
MATERIALS TRIBOLOGY

CALL FOR PAPERS

Dear Friends and Colleagues,

On behalf of the technical committees in Nanotribology and Materials Tribology, we invite you to present your research at the Joint Session on Tribochemistry of the 73rd STLE Annual Meeting and Exhibition. This conference is the premier event for the tribology and lubricant communities and will take place **May 20-24, 2018** in Minneapolis, Minnesota (USA).

You may submit an abstract (not exceeding 150 words) to the Tribochemistry session through STLE's online abstract submission portal: <https://stle2018.abstractcentral.com/>. Remember to indicate the Tribochemistry joint session as your topic during the abstract submission process. Please note that the deadline for submission is **Sunday, October 1st, 2017**.

In this joint session, we would like to highlight research that focuses on chemical reactions at the contact interface that are initiated or accelerated by mechanical stresses. We encourage experimental and simulation studies as well as investigations that link the two. Suggested topics within this focus area include, but are not limited to:

- Chemical bonding at the sliding interface and its contribution to adhesion, friction, and wear
- Atomistic and multi-scale simulations of chemical reactions at interfaces
- The effects of mechanical stress and chemical reactions on the formation, degradation, and properties of tribofilms
- Modeling of mechanical stress at the sliding interface and its effects on chemistry and wear
- Nanoscale mechanisms of material removal during wear
- Experiments bridging length scales (nanoscale and macroscale) of sliding wear

Please feel free to forward this to your colleagues. See you in Minneapolis!

Sincerely yours,

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