



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, I invite you to present your research at the **Joint Session on Tribochemistry** of the 72nd STLE Annual Meeting & Exhibition, the premier event for the tribology and lubricants communities.

You may submit an abstract (not exceeding 150 words) to the Tribochemistry session through STLE's online abstract submission portal: <https://stle2017.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 **Saturday, October 1st, 2016**.

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 across the interface and its contribution to adhesion, friction, and wear
- Atomistic mechanisms of material removal during sliding wear
- The formation or degradation of tribofilms via mechanical stress and chemical reactions
- Experiments aimed at understanding fundamental mechanisms in tribology, including *in situ* and *in vivo* testing
- Analytical modeling of mechanical stresses at interfaces and their effects on chemistry
- Atomistic and multi-scale simulations of atomic-scale reactions at interfaces

Please feel free to forward this email to your colleagues who might be interested in the Nanotribology sessions. We look forward to seeing you in Atlanta!

Sincerely yours,

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