



Tribochemistry - Materials Tribology and Nanotribology Joint Session: Call for Abstracts

In this joint session of the Materials Tribology and Nanotribology technical committees, we aim to highlight research on chemical reactions occurring at the sliding contact interface driven by mechanical shear, i.e., mechanochemical or tribochemical reactions. We encourage experimental and simulation studies at the macro-, micro-, or nanoscale, including research that links these approaches and scales. Remember to select **“Tribochemistry Joint Session”** as your topic when submitting your abstract.

Suggested topics include, but are not limited to:

- Tribochemistry of metals, ceramics, nanoparticles, nanocomposites, lubricant additives, and other advanced materials.
- Macro-, micro-, and nanoscale mechanisms of tribochemical reactions and their roles in adhesion, friction, wear, and lubrication, including studies that link these scales.
- Tribo-film formation and degradation caused by shear-induced chemical reactions.
- Theoretical modeling to investigate mechanochemical reactions and their impact on friction and wear.
- Physicochemical phenomena at the sliding interface and their effects on surface chemistry and material transformation, including intercalation dynamics within layered structures.

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