



Biotribology: Call for Abstracts

The Biotribology Technical Committee invites you to contribute your latest research to the Biotribology session at the 81st Annual STLE Meeting and Exhibition, to be held in Chicago, Illinois, USA, from May 2-6, 2027.

Biotribology brings together fundamental science, engineering, and real-world applications to explore friction, wear, lubrication, and surface interactions in living systems and at the interfaces between biological, natural, and artificial materials. We welcome contributions spanning biology, medicine, materials science, mechanical engineering, surface science, and beyond.

Whether your work explores the remarkable lubrication mechanisms of natural joints, the performance of medical implants, bio-inspired surfaces, or tribology in everyday and extreme environments, **we want to hear from you!**

Topics of interest include, but are not limited to:

- **Natural joints, cartilage, tendons, and ligaments**
- **Artificial tissues, prostheses, implants, and medical devices**
- **Tribology of metals, ceramics, polymers, soft matter, and composites for biological applications**
- **Biomimetics, bio-inspired surfaces, and biolubricants**
- **Drug delivery and medical interfaces**, including oral delivery, injections, and tissue–needle interactions
- **Ocular, skin, and hair tribology**, haptics, and personal-care applications
- **Oral processing, food tribology, and dental tribology**
- **Sports tribology**, including sports surfaces, equipment grip, snow and ice sports, and low-friction design
- **Tribology of natural phenomena**, including earthquakes, avalanches, landslides, and other geophysical processes

Join us in Chicago to **share your discoveries, exchange ideas, and help shape the future of biotribology.** We look forward to your contribution! For more information and to submit your abstract, visit www.stle.org/annualmeeting.