Dear Friends and Colleagues,

The Biotribology technical committee invites you to present your research in the Biotribology session to be held at the 78th Annual STLE Meeting and Exhibition in Minneapolis, Minnesota, US. The session focuses on fundamental and applied aspects of tribology in living organisms (human, animals, plants) and interfaces between biological, natural and artificial systems, covering a multi-disciplinary range of topics. Presentations will be either 40 minutes or 20 minutes, including discussion. Authors can indicate their preference during abstract submission (although a 40-minute slot cannot be guaranteed).

Biotribology topics include, but are not limited to:

- Natural joints and ligaments
- Artificial tissue replacements, prostheses and implants
- Tribology of metals, ceramics, soft matter, polymers, and composites for biological applications
- Biomimetics
- Drug delivery: Oral dispersive medicines; injections: tissue-needle interaction.
- Ocular and skin tribology
- Haptics and personal care
- Oral processing and dental tribology
- Sports Tribology: Sports surfaces; equipment grip, snow and ice sports, low-friction design.
- Biolubricants
- Tribology of natural phenomena: Earthquakes; avalanches; landslip

Submission deadline for abstracts is October 2nd, 2024. To submit an abstract, please visit https://stle2024.abstractcentral.com/ and select the “Biotribology” topic during submission.

Biotribology will participate in a joint session “Tribology of Biomaterials” in conjunction with the Materials Tribology technical committee. Please see the call for papers included below.

For all questions on the Biotribology session, please contact Meagan B Elinski at elinski@hope.edu

Sincerely yours,

Meagan B Elinski, Paper Solicitation Chair (PSC)
Quentin Allen, Vice Paper Solicitation Chair
Max Marian, Vice Paper Solicitation Chair
Md. Mahmudul Hasan, Secretary
Marc Masen, Vice Chair
Angela Pitenis, Chair
Joint Session on Tribology of Biomaterials

The Biotribology and Materials Tribology Technical Committees invite you and your colleagues to submit abstracts for the upcoming sessions at the 78th Annual STLE Meeting and Exhibition at the Minneapolis Convention Center in Minneapolis, Minnesota (USA). The session focuses on the tribology of biomaterials, either natural or synthetic. Submissions may include experiments, simulation, and/or theory. Presentations will be either 40 minutes or 20 minutes, including Q&A. Authors will have the opportunity to request either a 40 minute or 20 minute time slot during abstract submission. Specific topics include, but are not limited to the following:

- Structure-property relationships of biocompatible materials used in various biological applications, including but not limited to:
  - articulating joint biomaterials
  - dental biomaterials
  - ocular biomaterials
- Tribology of biomimicking synthetic surfaces
- Tribology of bio-hybrid materials and systems
- Relationships between the biological environment and the tribological behavior of biomaterials
- Simulations and modeling of biomaterials tribology at multiple length scales

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