

Nanotribology Call for Papers and Presentations

The STLE 66th Annual Meeting & Exhibition, the premier event for the tribology and lubricants communities, will be held **May 15-19, 2011, at the Hilton Atlanta Hotel, Atlanta, Georgia.**

We would like to take this opportunity to invite you to submit papers for presentation in the **Nanotribology** sessions that are being planned for STLE 2011. STLE accepts abstracts for presentations at <http://stle2011.abstractcentral.com> and the deadline for submissions is October 1, 2010.

Nanotribology sessions cover the following topics:

1) Nanotribology Fundamentals:

- Mechanical & Material Properties and Behavior of Nanomaterials;
- Lubrication Mechanisms of Nanomaterials;
- Tribological mechanisms and Performance of Nanomaterials;
- Properties and Behavior of Nanomaterials for Extreme Environments;
- Nanotribology fundamentals within Nano-, Micro-, and Macro- Systems.

2) Current and Future Applications of Nanotribology:

- Advances in Nanotribology;
- Solid Lubricants;
- Nanomechanics: Nanoscale Plasticity, Scale-dependence;
- NEMS, Nanodevices, and Tip-based Manufacturing;
- Environmental & Toxicology Issues;
- Material Applicability: Durability & Robustness;
- Synthesis & Formulation of Nanofluids and Nanocoatings;
- Nano-Biotribology: Interface Mechanics, Adhesion, Sliding;
- Nano-textiles;
- Performance Analysis and End-use Applications of Nanolubricants.

3) In-situ Characterization and Analysis in Nanotribology:

- In-situ Techniques;
- Synthesis Techniques;
- Characterization Techniques;
- In-situ Studies for Tribological and Lubrication Mechanisms and Behavior;
- Novel Methods.

For STLE 2011, our goal is to continue our **invited presentations** that were inaugurated at STLE 2010 honoring leaders in the field, and to develop a joint session with the Solid Lubricants technical committee. Also, we will be offering for the first time a **half-day short course** on the fundamentals and applications of nanotribology the Sunday afternoon before the conference, which will be free to conference registrants. The target audiences for the Nanotribology sessions are diverse and draw from academic, industrial, and government laboratories.

Important Date: Abstract Submission Deadline, **Oct. 1, 2010**.

We appreciate your consideration for presenting in the Nanotribology sessions, and we look forward to seeing you in Atlanta this May.

Yours sincerely,
STLE Nanotribology Technical Committee

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