

Fluid Film Bearings Technical Committee

73rd STLE Annual Meeting & Exhibition, May 20-24, 2018

Minneapolis Convention Center, Minneapolis, Minnesota (USA)

Dear Colleagues,

The Fluid Film Bearings Technical Committee is pleased to announce the Call for Papers for the 73rd STLE Annual Meeting & Exhibition that will be held on May 20-24, 2018 in Minneapolis, Minnesota.

Theoretical and experimental studies dealing with various aspects of **liquid** and **gas fluid-film bearings** (hydrodynamic, hydrostatic and hybrid) will be considered for presentations.

The presentations topics include (but are not limited to):

- reactive (passive) and controllable (active and semi-active) bearing designs (plain geometry and tilting pad bearings, foil bearings, new designs etc.);
- influence of chemical, thermal and mechanical material properties on bearing behavior and overall machinery performance (bearings with coatings, engineered surfaces and/or thick/thin liners; bearings with constant/linear/non-linear material properties);
- lubrication with non-Newtonian fluids, water, contaminated fluids (liquid/solid), refrigerants (two phase lubricants) and non-ideal gas mixtures;
- lubrication models with reviewed turbulence concepts, inertia and shock effects;
- transient, steady-state and linear/non-linear dynamic performance of bearings (incl. cold starting at high loads, dynamics of ultra-high speed bearings, self-induced and forced vibrations of machinery, resonance);

Please mark your calendar and submit your 100-150 word abstract electronically no later than:

October 1st, 2017

Information on the topic areas to be covered at the 2018 Annual Meeting can be found on www.stle.org. The processes and topic areas can be found under “Call for Papers”. Please check the Session that says “**Fluid Film Bearings**”.

With warm regards,

Thomas Gu, PSC, thomasgu2014@u.northwestern.edu

Troy Snyder, Vice PSC, tas38@zips.uakron.edu

Deadlines and Contacts

Abstract submission Deadline: October 1st 2017 – Submission of Presentation Abstract.

If you need further information please contact:

Paper Solicitation Chair (PSC) Thomas GU Department of Mechanical Engineering Northwestern University Email: thomasgu2014@u.northwestern.edu	
Technical Committee Chair Aurelian FATU Institut Pprime, Department GMSC CNRS - Université de Poitiers – ENSMA (UPR 3346) Email: aurelian.fatu@univ-poitiers.fr	Annual Meeting Program Committee Ashlie MARTINI Assistant Professor School of Engineering University of California Merced Email: amartini@ucmerced.edu
Technical Committee Vice Chair Alex-Florian CRISTEA Calculations Department Tecnitas SAS Email: alex-florian.cristea@tecnitas.com	Vice PSC Troy SNYDER Department of Mechanical Engineering The University of Akron Email: tas38@zips.uakron.edu

For questions on general information of the 2018 STLE Annual Meeting & Exhibition, please contact **Mr. Merle Hedland** at mhedland@bacon-hedland.com