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Fluid-Film Lubrication II

Guest Editor:

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Deadline for manuscript submissions:
closed (20 May 2019)

Message from the Guest Editor

Dear Colleagues,

Osbourne Reynolds said: "The fact that a little grease will enable almost any surface to slide for a time has tended doubtless to obscure the action of the revolving journal to maintain the oil between the surfaces at the point of pressure. And yet, although only now understood, it is this action that has alone rendered our machines and even our carriages possible." This is the essence of fluid-film lubrication; the lubricant is forced in a converging gap between two solid surfaces, generating enough pressure to support appreciable loads. This is by now practically exploited in sliding and rolling bearings, allowing for smooth and efficient operation of machines.

We have decided to launch the Special Issue on “full film lubrication” with the aims of publishing the latest research into the mechanisms of fluid-film lubrication, and lubricants in new experimental and modelling approaches to the behavior of such systems. Principal topics include, but are not limited to:

- Fluid film;
- Lubrication;
- Lubricants;
- Bearing;
- Rolling
- Sliding;
- Experimental;
- Modelling;
- Materials;

Dr. Romeo Glovnea

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Editor-in-Chief

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Message from the Editor-in-Chief

Friction, wear, and lubrication are tribological phenomena that govern the behavior of interacting surfaces in a wide range of machine components. Understanding the physical and chemical nature of these phenomena is critical to achieving long component lifetime and economical operation. Research in the field of tribology is highly interdisciplinary, and encompasses the fields of physics, chemistry, engineering, and mathematical modeling. *Lubricants* invites contributions on new advances in all areas of tribology for publication as peer-reviewed research articles, reviews of current research, letters, and communications. We are committed to providing timely reviews of all articles submitted. Please consider sharing your work with the scientific community through publication in *Lubricants*.

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