



Fluid-Film Lubrication II

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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;

