
ÖTG-SYMPOSIUM 2018

CALL FOR PAPERS

Tribology in Industry and Research

**Tribology – Quo vadis?
A view across scales on Tribology**

Thursday, 22 November 2018

TU Wien / "Haus der Ingenieure", 1010 Wien, Eschenbachgasse 9/11

MOTIVATION AND THEMATIC SCOPE OF THIS SYMPOSIUM

The charm, but also the complexity of Tribology, lies in its interdisciplinarity. This makes Tribology one of the science areas, which on the one hand is very much inspired by the nature sciences, on the other hand also by engineering sciences. Each individual area of science has its own scale-related view of the phenomena that occur on surfaces in contact under relative motion.

Considering the major societal challenges especially in the area of transportation, in ecology, but also due to the digitization of the world of work, also Tribology has to find its right position under these new conditions. Current keywords, such as *e-mobility* and *autonomous driving*, *data management*, *internet of things*, relate to technical developments, which require a re-focusing also of Tribology. Questions arising from the perceptible macroscopic but also on the nano-scale related to atomistic processes come in the viewing area of Tribology and play a prominent role. Tribology of wind turbines to produce "alternative energy" may demonstrate this as just one example. A few more are: online monitoring of lubricants in machinery to increase the lifetime of components, novel and environmentally friendly lubrication concepts and additives, but also innovative "2D-materials" like graphene". Furthermore, the interdisciplinarity of Tribology provides an effective enrichment through adjacent sciences, such as the following example shows: Materials such as GaN, are known in the semiconductor industry for several years, but no one had a look on the tribological properties so far. It has however recently emerged that GaN, in terms of wear resistance, almost equals the properties of diamonds and thus unexpectedly offers interesting abilities for tribological applications in electronics industry (e. g. for smart devices). This demonstrates once more the importance of scale- and cross-disciplinary considerations in Tribology aiming at a closer link between the nano-domain and the macroscopic world in the field of tension of the various science and technology areas.

The **ÖTG Symposium 2018** intends to emphasise these aspects and invites colleagues from the mentioned disciplines to communicate and to discuss the challenges of Tribology and their solutions that emerge in the coming years.

Target industries: Automotive engineering, mechanical and plant engineering, drive technology, automation technology, lubricant and surface treatment, materials engineering, manufacturing technology, application engineering

ORGANIZED BY

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in cooperation with

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Tribology Research Group – Univ.-Prof. Dr. Carsten GACHOT**
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INFORMATION

Presentations

Presentations are welcome in **English** or **German** (abstracts or papers to be published in the proceedings can be written in either language). Please bring your presentation on CD or USB-Stick (no notebook) to the symposium.

Duration of presentation is planned with 20 minutes plus 5 minutes discussion each.

Outline

Deadline: 06 July 2018

Outlines contain title, author, co-author(s), institution or company, language of presentation, as well as about 3 to 5 lines content. Please send it to office@oetg.at. Confirmation will be sent by end of July 2018.

Full Paper

Deadline: 21 September 2018

We kindly ask you to electronically send the accepted paper at least as abstract (max. 2 pages A4), most appreciated as extended version (6 to 8 pages DIN A4, MS Word®). **Only presentations sent in due time and with prescribed format can be accepted.**

Proceedings

Our proceedings (with own ISBN-registration number for publications) will contain all full papers sent in time by the authors with binding registration. Printed proceedings will be handed out at the beginning of the conference. Participants will have – during a certain period – the possibility to download the electronic version of the proceedings. Proceedings show ISBN registration number.

Exhibition / Advertising

Advertising can be placed during the sessions (in form of “commercial presentations”) in the proceedings, with posters directly at the conference venue with a small exhibition booth.

Information about technical and cost conditions are available from the OeTG secretariat (Mrs. Martina GANTAR-HOFINGER), e-mail: office@oetg.at or FAX no. +43 1 2533 033 9100.

Participation Fee

Participation Fee (regular, per participant)	€ 330,-
Reduced Speakers Fee for persons presenting scientific-technical papers/posters (valid for max. one person per each paper)	€ 130,-
Speakers Fee for “commercial presentations” (valid for max. one person per paper/presentation)	€ 490,-
Reduced Participation Fee (for members of the OeTG only)	€ 225,-

No participation fee for students (participation depending on available places; without proceedings) as well as for persons affiliates with OeTG members (according to the OeTG categories of company-members).

The participation fee includes proceedings (ISBN registered brochure, electronic access to the respective files containing the conference papers.), coffee, drinks, short lunch, as well as guided tour of the labs.

Prices are exclusive VAT.

We are looking forward to welcome you this year in the „Haus der Ingenieure” at Wien !



Upon invitation by the TU Wien the **2018 OeTG Symposium** will take place in the “Haus der Ingenieure” (House of Engineers). The building was founded between 1870 and 1872 as a clubhouse for the Society of Austrian Engineers and Architects. The House of Engineers, due to its central location in the first District of Vienna, offers in walking distance the Vienna University of Technology (TU Wien, site Getreidemarkt), the “Museumsquartier” and as well several urban attractions of the Centre of Vienna (Opera, St. Stephan’s Place, Castle Garden,...). The location of the venue is perfectly accessible by public transport. In addition, there are several public parking garages available in the vicinity.