
ÖTG-SYMPOSIUM 2019

PROFESSIONAL CONFERENCE

CALL FOR PAPERS

Tribology in Industry and Research

Tribology impulses through digitalization ?

Thursday, 21 November 2019

FH Vorarlberg (University of Applied Sciences), Hochschulstraße 1, 6850 Dornbirn

MOTIVATION AND THEMATIC SCOPE OF THIS SYMPOSIUM

The "digital revolution" undoubtedly affects wide areas of economic, social, working and private life and, of course, technology. Tribology in particular, with its diverse fields of application and tasks, its complexity and interdisciplinarity, offers the opportunity to make use of the efficiency of digitalization and to profit from the latest developments in this field. According to a study on data growth (International Data Corporation, CIO, 12 July 2011), the volume of data doubled every two years. This growth rate is likely to have accelerated even more since then. In principle, despite the confidentiality of sensitive data, usable analyses of tribologically relevant material developments, lubrication methods, test methods, design solutions, and online system monitoring should also be available in the immense "publication jungle" alone. They await targeted research and evaluation and offer the possibility of more rapid development of tailor-made system solutions.

Finding and using data is not without risk and requires profound tribological system knowledge as well as knowledge of the purpose-oriented, accurate generation of relevant data (e.g. from practical applications, from laboratory analyses as well as from mathematical and experimental simulation). This also builds a bridge to the modern methods of sensorics and analytics as well as to system and process modelling. Even though these may not be a mandatory condition for the effectiveness of data analyses from internationally available sources under the boundary conditions of "big data", they represent valuable and very direct information about "system health" and therefore support the holistic design approach in the sense of tribology.

The **ÖTG Symposium 2019** would like to discuss – besides core topics of tribological developments – the topic "digitalization" in the context of tribological and tribosensory tasks comprehensively and invites especially experts of tribology, special sensor technology, but also information technology to discuss together the chances, challenges, possibly also the limitations and dangers, which result from the comprehensive efforts of this wave of digitalization for tribology and its solution approaches today already and increasingly in the coming years.

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

ORGANIZED BY

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**Technische Universität Wien (TU Wien), Institute of Engineering Design and Logistics Engineering,
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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: 09 July 2019

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 2019.

Full Paper

Deadline: 23 September 2019

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)	€ 340,-
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Reduced Speakers Fee for persons presenting scientific-technical papers/posters (valid for max. one person per each paper)	€ 140,-
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Speakers Fee for “commercial presentations” (valid for max. one person per paper/ presentation; special conditions for exhibitors on request)	€ 510,-
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Reduced Participation Fee (for members of the OeTG only)	€ 230,-
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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 Dornbirn, Vorarlberg !

As in 2010, the **ÖTG Symposium 2019** will take place at the FH Vorarlberg (University of Applied Sciences) in Dornbirn at the invitation of V-Research GmbH, the Dornbirn-based institution for industrial research and development.



Since its foundation, V-Research has been in charge of a business division dealing with tribo-technology, tribological optimization and tribo-design.

V-Research operates a tribometry and analysis laboratory and supports customers in the fields of material, surface and lubricant engineering up to the implementation of solution concepts in series production.

V-Research is a long-standing partner of AC2T research GmbH, Center of Excellence for Tribology in Wiener Neustadt, within the Austrian COMET program.