

Tribology Symposium

Trends in Electrification, Lubricants, Processing, System behavior

21 – 22 May 2019 in Landau /Germany

For the
Fifth Time
in Landau

Discuss the following topics

- Innovations for materials, methods and processes
- Best practice solutions for users, manufacturers and suppliers
- Friction and wear: reliability, performance, verification
- Design and next level of simulation

+ Company visit of APL

Chassis dynamometer center for WLTP requirements | New laboratory for oil and fuel analysis

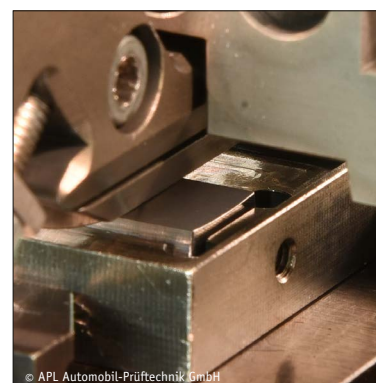
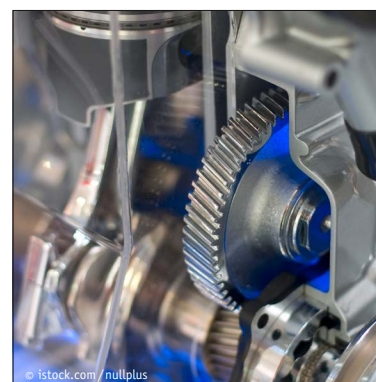
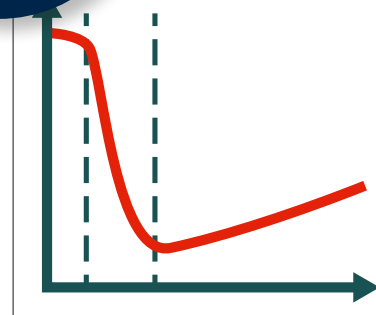
+ Panel discussion »What is the electrification changing?«

For our international audience

Simultaneous translation German/English!

Presentations from

- Daimler AG
- FORD-Werke GmbH
- FUCHS SCHMIERSTOFFE GmbH
- Infineum
- Nagel Maschinen- und Werkzeugfabrik GmbH
- Rewitec GmbH
- Schaeffler Technologies AG & Co. KG
- Weichai Power Co. Ltd.



Organized by

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**maschine
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Premium sponsor

APL Group

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Director of the Symposium

Prof. Dr. -Ing. Kurt Kirsten, Head of advanced development and innovation
› APL Automobil-Prüftechnik Landau GmbH

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An expert audience, topics highly relevant to the market and a professional conference concept create the environment for your brand presence.

Present your company and your products or be part as a sponsor!

More information on exhibition & sponsoring: Christine Sieber | christine.sieber@hanser.de

Good reasons why you should visit the symposium

- Get a compact update on tribology in practice.
 - Discuss approaches to problems as well as current developments and solutions with a tribological focus in the powertrain area.
 - Learn from best practice examples and gain new perspectives!
 - Meet experts from industry and research and take many suggestions from the presentations.
 - Take advantage of the excellent networking and the experience exchange.
-

Who you will be meeting at the symposium

The symposium is aimed at **experts and interested parties** from industry, research and development community, that are active in the field of tribology, friction and wear.

It offers a great opportunity for **engineers and managers of manufacturers of combustion engines and their suppliers** to gain insight into current developments and to make new contacts.

Tuesday, 21 May 2019

09.00 Registration and welcome coffee

09.55 Welcome

Sylvia Hahn › Hanser Tagungen und Messen

10.00 Tribology in times of progressive digitization and electrification

Prof. Dr.-Ing. Kurt Kirsten

› APL Automobil-Prüftechnik Landau GmbH, Landau

Tribology in Practice I

10.30 Does the Future belong to the Internal Combustion Engine?

Carsten Weber › Ford-Werke GmbH, Köln

11.00 Wear research of critical friction pair of diesel engines 

Dr. Nannan Sun › Weichai Power Co.,Ltd., Weifang, China

11.30 Discussion of the presentations

11.45  Lunch

The lubricant – the connecting element

13.15 Can nanoparticles improve lubricants even further?

Dipl.-Ing. Stefan Bill › Rewitec GmbH, Lahnau

13.45 FE and powertrain electrification – tailored lubricant solutions 

Simon Moizan › Infineum, Berre L'étang, Frankreich

14.15 Challenge electrification and hybridization – Lubricants in the electrified powertrain

Rolf Luther › FUCHS SCHMIERSTOFFE GMBH, Mannheim

14.45 Discussion of the presentations

15.00  Coffee break and Hotel check-in

16.00 Optional bus transfer to guided tour at APL

16:30 Company visit of APL

Chassis dynamometer center for WLTP requirements |
New laboratory for oil and fuel analysis

18.00 End of the company visit and bus transfer to Get-together

Pick-up at Festhalle Landau or from APL

18:30 Get-together

The APL is glad to invite you to a get-together in Vögelis WineNest at the end of the first day. Enjoy regional food and Palatinate wines and exchange ideas in a pleasant atmosphere with participants and speakers.

22.00 Bus transfer back to the Festhalle Landau

Wednesday, 22 May 2019

Machining – Pre-stage for good operating behavior

08.30 Honing as key process of innovative cylinder liners

Hans-Peter Böhm

› Nagel Maschinen- und Werkzeugfabrik GmbH, Nürtingen

09.00 Friction reduction by cylinder liner coating and dedicated design features

Urban Morawitz › Ford-Werke GmbH, Köln

09.30 Simulative and Experimental Improvements in Thermal Spray Process for Internal Diameter Coating of Cylinder Bores for Passenger Car engines

Bernd Schilder › Daimler AG, Stuttgart

10.00 Discussion of the presentations

10.15  Coffee break

Tribology in the times of electrification

10.45 Challenges for tribology and emission optimization in the course of electrification

Christian Lensch-Franzen

› APL Automobil-Prüftechnik Landau GmbH, Landau

11.15 Test bench for determining rolling bearing friction – Development environment for e-automotive applications

Univ.-Prof. Dr. Hannes Hick

Assoc. Prof. Dipl.-Ing. Dr. techn. Michael Bader

› Technische Universität Graz, Österreich

11.45 Quo vadis: Makes the modern high-performance electric motor tribology topics obsolete?

Dr. Balázs Magyar, Manager Lubricants and Tribology, Research and Technology Center › ZF Friedrichshafen AG, Friedrichshafen

12:15 Panel discussion

»What is the electrification changing?«

Moderation: Prof. Dr. Kurt Kirsten

13.00  Lunch

Tribology in practice II

14.00 Tribological challenges in the area of large turbochargers

Dr.-Ing. Alexander Böhrer › ABB Turbo Systems AG, Baden, Schweiz

14.30 Simulation and Verification – Development of further improvement potentials for combustion engines in hybrid drives

Dr.-Ing. Frank Schlerege

› Schaeffler Technologies AG & Co. KG, Herzogenaurach

15.00 Discussion of the presentations

15.15 Closing words and end of the conference

Register now

Online: www.tribology-symposium.com | Fax: +49 89 99830-157

- I hereby register for the **Tribology Symposium** on 21-22 May 2019 in Landau/Germany.
Registration fee until 17.04.2019 € 990.- | Registration fee from 18.04.2019 € 1,190.-
10% discount for subscribers of the magazines WB Werkstatt+Betrieb or maschine+werkzeug.
Discounts for University Staff are available on request. All prices plus German VAT.
- I hereby register for the company visit to APL on 21 May (included in conference fee, participation conditionally).
- I hereby register for the Get-together on 21 May 2019 (included in conference fee).

Participant

Company address Private address
 Mr Mrs

First Name | Last Name _____

Company _____

Department _____

Phone _____

Street | P.O. Box _____

Country | ZIP Code | City _____

E-Mail _____

I am / my company is a subscriber of the magazine WB Werkstatt+Betrieb or maschine+werkzeug.

Date | Signature _____

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Place of Conference

Jugendstil – Festhalle Landau | Mahlastraße 3 | 76829 Landau in der Pfalz | www.stadtholding.de/jugendstil-festhalle/

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Benefits

The conference fee includes proceedings available for download, lunch, coffee breaks, refreshments as well as announced events or company visits. Participation in company visits is conditional. The name tag you receive at the registration on-site serves as authorization to call upon the benefits mentioned above.

Registration/Cancellation

Your registration is binding once a written confirmation is issued. This also applies to the participation in announced tours. With your signature, our terms and conditions are accepted. Participants with billing address outside of Germany, Austria and Switzerland, have to pay by credit card.

With your registration you agree to being seen as a participant in any photos or videos.

Cancellation of your registration must be in writing and, up to two weeks prior to the start of the event, is subject to a processing fee of € 100,- plus the statutory VAT. If the cancellation is postmarked after the deadline, you are required to pay the full registration fee. It is possible to transfer your registration to a colleague if you cannot attend personally. The program is subject to change.

Should the conference be canceled, the registration fee will be reimbursed in full. We will inform you immediately and transfer the paid fee back to your account. However, Hanser will not be liable for any other expenses incurred, such as travel, hotel, or others.

Accommodation

Travel and accommodation are not included in the conference fee. Please book your room yourself. For participants, a limited number of rooms are available at a special rate. All information about the hotel can be found in the conference details at www.tribology-symposium.com and further accommodation at www.hanser-tagungen.de/hrs.

Journey

For your journey by train you can use the cost-efficient event ticket of »DB Vertrieb GmbH«. You can find detailed information about the offer on www.hanser-tagungen.de/DBSonderkon-ditionen. The offer is bookable at the hotline 0180 6 31 11 53 by the reference: »EW Medien«

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