

VDI



Call for Papers

20th International VDI Congress
Dritev

Your proposal for the
central meeting place for
powertrain engineers!

Submit your abstract covering following topics:

- **Market and customer; requirements, legislation and environment**
- **Drivetrain architectures, transmission systems and vehicle integration**
- **Electrical and electronic system integration**
- **Subsystems and mechanical/mechatronic drive components**
- **Operating strategies**
- **Value engineering/Value analysis**
- **Data and security in the drive system**
- **Development methods and production concepts**

+ Accompanying conference



Transmissions in mobile machines



EDrive

+ Exhibition

with more than 100 exhibitors



An event organized by VDI Wissensforum
www.dritev.com
Phone +49 211 6214-201 • Fax +49 211 6214-154

June 24 and 25, 2020, Bonn, Germany

Exhibition

The International VDI Congress Dritev belongs to the most prestigious events of the automotive industry in the world. In 2020 more than 100 companies will be presenting innovative and trendsetting products and services turning the exhibition into the central market place of the congress.

Who should exhibit?

Manufacturers and service providers focusing on the following:

- Powertrain concepts and transmissions for cars, commercial vehicles and mobile machinery
- E-machines and power electronics
- Mechatronic and electronic transmission components
- Other components relevant to propulsion
- Oils and lubricants
- Evaluation and simulation
- Testing and metrology
- Production of drivetrains and components

Participate in the exhibition for excellent return or show thought leadership by sponsoring the event!

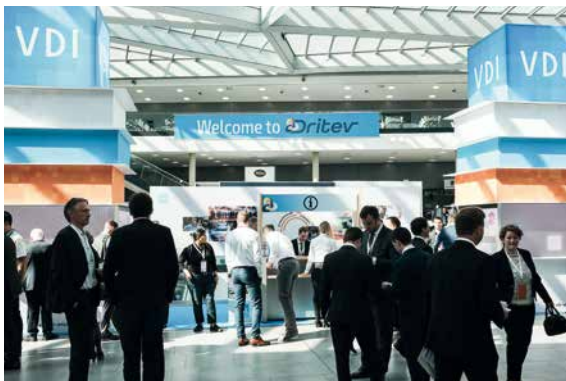
Details about the exhibition and the sponsorship program 2020:

Contact

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Partners

VDI Society Product and Process Design (GPP)
VDI Society Vehicle and Transport Technologies (FVT)



Program Committee



1st line, from left to right

Dipl.-Ing. Georg Bednarek, Director Regulations & Certification, Opel Automobile GmbH, Rüsselsheim, Germany

Dr. Carsten Bündler, Director Global Product Management, Magna Powertrain, Untergruppenbach, Germany

Dr. Thomas Casper, Manager Integration Transmission and Drivetrain, Dr.-Ing. h.c. F. Porsche AG, Weissach, Germany

Dr.-Ing. Michael Ebenhoch, Senior Vice President Car Powertrain Technology, ZF Friedrichshafen AG, Kressbronn

Dipl.-Ing. Hans-Peter Fleischmann, Director Dual Clutch Transmission Development and Series Support Transmission, AUDI AG, Ingolstadt, Germany

Dipl.-Ing. Volker Heinz, Director, Engineering, DualTronic® and Clutch Systems, BorgWarner Drivetrain Engineering GmbH, Ketsch, Germany

2nd line, from left to right

Prof. Dr.-Ing. Bernd-Robert Höhn, Retired Professor at the Institute for Machine Elements/FZG, Technical University of Munich, Garching, Germany

Thomas Landsherr, Vice President, Engineering Driveline Truck & Bus, MAN Truck & Bus AG, Munich, Germany

Dr. Thilo Leineweber, Senior Vice President Gasoline Systems Transmission Control, Robert Bosch GmbH, Schwieberdingen, Germany

Dr. Rainer Link, Senior Vice President Engineering, GKN Powertrain, Lohmar

Dr.-Ing. Florian Mulzer, AGCO Transmission Specialist, AGCO GmbH, Marktberdorf, Germany

3rd line, from left to right

Dipl.-Ing. Konstantin Neiss, Director Transmission & Electric Drivetrain, Daimler AG, Stuttgart, Germany

Dr. Markus Nussbaumer, Head of Longitudinal Transmissions, Advanced Development, BMW Group, Munich, Germany

Prof. Dr.-Ing. Stephan Rinderknecht, Full professor and Head of the Institute for Mechatronic Systems in Mechanical Engineering, TU Darmstadt, Germany

Dipl.-Ing. Michael Schäfer, Head of Transmission Development, Volkswagen AG, Wolfsburg, Germany

Prof. Dr.-Ing. Karl Viktor Schaller, Executive Vice President Development, BMW Motorrad, BMW Group, Munich (Honorary member), Germany

Dr. Andreas Schamel, former Director Global Powertrain Research & Advanced, Ford-Werke GmbH, Aachen, Germany

Prof. Dr.-Ing. Karsten Stahl, Full Professor and Director of the Institute for Machine Elements/FZG, Technical University of Munich, Garching, Germany

4th line, from left to right

Prof. Dr.-Ing. Peter Tenberge, Director, Head of Chair of Industrial and Automotive Drivetrains, Ruhr-Universität Bochum, Germany

Matthias Zink, CEO Automotive, Schaeffler AG, Bühl, Germany (congress chairman)

Submit your abstract now!

VDI

Call for submission of contributions

Is your expertise focused on any of the areas concerning the main topics? If so, we'd be delighted for you to contribute with a presentation.

Please submit a brief abstract of max. one A4 size sheet by October 25, 2019, summarising your presentation. You can submit your paper at www.dritev.com.

Dates

- Submission of abstracts by **October 25, 2019**
- Information about acceptance to authors by **mid-December 2019**
- Submission of manuscripts by **March 25, 2020**

The summary must include:

- a meaningful title of your article
- the contact details of the speaker and any co-authors
- a table of contents with the key messages of your contribution
- details about any of your own previous publications on this subject
- degree of innovation
- **the precise title and key points of your presentation for publication in the program brochure (obligatory)**

German and English are the approved languages for presentation.

The permitted presentation time is 20 minutes, with additional time for discussion afterwards. Presentations and manuscripts must be submitted in **English**.

Based on the abstract, the program committee will decide on the acceptance and order of presentation in the Dritev congress program, optionally also in the parallel running program of the EDrive conference or the conference „Transmissions in mobile machines“.

Each applicant will be informed about the results in writing and will receive information about further steps. Speakers (one author per article) participate free of charge.

Authors of the accepted presentations undertake to submit a manuscript (12-16 pages). The manuscripts of the presentations accepted will be published in a report which can be cited.

Publish your research results in a scientific journal

The scientific journal "Forschung im Ingenieurwesen" (Research in Engineering) gives you the opportunity to publish an extended version of your conference publications. Expand your conference contribution by going into more detail about the underlying theories, methodology used and the results of your study. You can then submit your manuscript via the following link,

<https://www.editorialmanager.com/fiin> (online submission)

taking the formal submission requirements into account. If your contribution passes the initial publisher's review, it will be further reviewed by independent experts in a double-blind process (peer review).

<http://www.springer.com/journal/10010>

Best Presentation Award for junior engineers

The best lecture of one junior engineer (up to 33 years old) will be honoured with the Best Presentation Award for junior engineers "Dritev 2020".

Speakers, who would like to participate in this contest, are requested to state their date of birth with their contact details.

Topics

- 1. Market and Customer; Requirements, Legislation and Environment**
 - 1.1 Diversification of markets and regional solutions
 - 1.2 Compliance with CO₂ limits
 - 1.3 System performance today and tomorrow
 - 1.4 Sustainability (Recycling, conservation of resources ...)
 - 1.5 Technologies that help reduce emissions
- 2. Drivetrain Architectures and Vehicle Integration**
 - 2.1 Drive topologies (BEV, PO-P4, conventional)
 - 2.2 Alternative powertrain technology (Fuel cell, gas, ...)
 - 2.3 Impact of e-concepts on gearbox solutions
 - 2.4 Packaging
 - 2.5 Weight/power density
 - 2.6 Efficiency rate/system efficiency
 - 2.7 NVH
 - 2.8 Storage models (in the system context)
 - 2.9 Thermal management
- 3. Transmission Systems**
 - 3.1 Conventional transmission concepts (AT, DCT, CVT, AMT, MT)
 - 3.2 Hybridized transmission concepts
 - 3.3 Axle drives
 - 3.4 All-wheel drive systems
- 4. Electrical and electronic System Integration**
 - 4.1 E-engine and inverter
 - 4.2 Synergies in electronics and mechanics
 - 4.3 Charging systems and recuperation systems
- 5. Subsystems and mechanical/mechatronic Drive Components**
 - 5.1 Influences on components
 - 5.2 Integration
 - 5.3 Vibration damping
 - 5.4 Transmission components (clutches, gear wheels, synchronizations, bearings ...)
 - 5.5 Lubrication and tribology
 - 5.6 Sensor and actuator technology
- 6. Operating Strategies**
 - 6.1 Driving profiles and load spectra
 - 6.2 Powertrain application
 - 6.3 Control strategies
 - 6.4 Individualisation of powertrain

7. Value Engineering/Value Analysis

- 7.1 Modularity
- 7.2 Design to Cost
- 7.3 Manufacturing technology

8. Data and Security in the Drive System

- 8.1 Strategies and technologies
- 8.2 Cyber security
- 8.3 Networking/Over-The-Air-Updates
- 8.4 Influences and opportunities with ADAS and Autonomous Driving

9. Development Methods

10. Production Concepts

Questions concerning the content of the congress?

Contact



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 Email: kunst@vdi.de



The participants

Attendees by company type in 2019

Function



VDI Wissensforum GmbH | VDI-Platz 1 | 40468 Düsseldorf | Deutschland

Sign up now!
www.dritev.com

You need help?
Please contact us!

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Email: wissensforum@vdi.de
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**Early Bird until
September 30, 2019!**

✓ Please register for (Price per Person plus VAT):

20th International VDI Congress Dritev 2020

June 24 and 25, 2020, Bonn, Germany
(01TA805020)

Early bird until September 30, 2019: EUR 1.540,-

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Participation Fee VDI-Members: **Save 50 € for each Conference Day.** VDI membership no.*: _____

*For the price category 2, please state your VDI membership number

I'm interested in Sponsoring and/or Exhibition

First Name _____ Last Name (Family Name) _____
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Participants with an invoice address outside of Austria, Germany and Switzerland are kindly requested to pay by credit card. Please don't send your credit card details via email, fax or post. Please book your ticket at www.vdi-wissensforum.de. Transferring your credit card details via our website ensures your details are encrypted and security of your data is guaranteed.

General terms and conditions of VDI Wissensforum can be found online at: www.vdi-wissensforum.de/de/agb/

Venue: World Conference Center Bonn, Platz der Vereinten Nationen 2, 53113 Bonn, Germany, +49 228 92670, info@worldccbonn.com

Accommodation: A limited number of rooms have been reserved for the benefit of the congress participants.

- Tourismus & Congress GmbH, Bonn, Phone: +49 228-9104171
 - Bonn Marriott World Conference Hotel, Phone: +49 228 280500
 A reservation form can be found at www.dritev.com

More Hotels close to the conference venue may be found via our HRS service
www.vdi-wissensforum.de/hrs

Services: The price includes the compendium, coffee-break, beverages during breaks, lunch and the evening reception.

Exclusive offer: All participants at this event are entitled to a free three-month trial VDI membership.
 (Offer applies exclusively to new members.)



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