The Powertrain of Tomorrow 2021

Thinking in systems

27 – 28 January 2021
Hanau near Frankfurt am Main, Germany

Impressions of 2020

Call for Papers
Apply online now
Submission of proposals
no later than
19 June 2020

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Dr. Johannes Liebl,
Editor-in-Charge ATZ | MTZ | ATZelektronik

SCHAEFFLER
Welcome

Drive systems based on internal combustion engines, electrification and CO₂-neutral fuels are effective means for meeting our mobility and transport needs in the future without restrictions. Regeneratively generated electrical energy is the key to this. This energy can be used directly via electrified drives or indirectly via liquid fuels or synthetic gas.

A widely diversified drive train portfolio must be developed to succeed in international markets. At the MTZ Conference “The Powertrain of Tomorrow 2021”, we would like to work out how broad this drive mix must be. The systemic view of the powertrain will be the focus of attention. In addition, we want to convey entrepreneurial and strategic positions.

I invite you to get involved with a presentation. Details for your topic submission can be found in this “Call for Papers”.

On behalf of the Scientific Advisory Board

Stay at the cutting edge!

✓ Highly relevant technical papers presented by renowned speakers
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The Powertrain of Tomorrow

Increasingly stringent legislation on CO₂ emissions are causing a paradigm change in powertrain development. Electrification is broadening the global drive mix with and without combustion engines. The focus of this international conference will be on advanced drive concepts designed equally for passenger cars and commercial vehicles. The complexity of the cause-and-effect relationships can only be mastered through digitization. Systems thinking, intelligent management and new development methods play crucial roles in the race for the drive of the future.

Scientific Advisory Board

Our Scientific Advisory Board, which is made up of prominent figures from the relevant field, provides support during the planning phase of the conference and helps to identify suitable topics. With its expertise the board will make a valuable contribution to the choice of themes for the lecture program.

Participants

The international MTZ Conference “The Powertrain of Tomorrow” is aimed at managers and experts in powertrain development and electrification. It is a must-attend event for engine and vehicle manufacturers, their suppliers and development partners, teaching staff and engineers from universities, representatives of authorities and associations, and technicians active in this field.

Dr. Norbert Alt
FEV Europe GmbH

Prof. Dr. Michael Bargende
University of Stuttgart

Prof. Dr. Bernhard Geringer
Vienna University of Technology

Prof. Dr. Uwe Dieter Grebe
AVL List GmbH

Manfred Homm
Schaeffler Technologies AG & Co. KG

Christian Lensch-Franzen
APL Automobil-Prüftechnik Landau GmbH

Dr. Hermann Middendorf
Volkswagen AG

Stephan Rebhan
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Dr. Peter Sauermann
BP Europa SE

Dr. Bernd Vahlensieck
ZF Friedrichshafen AG

Dr. Wolfgang Warnecke
Shell Global Solutions (Deutschland) GmbH

Dr. Marco Warth
MAHLE International GmbH

Carsten Weber
Ford-Werke GmbH

Media partner
Innovative drive systems
- Internal combustion engines in the electrified powertrain
- Mild hybrid drives
- Hybrid and plug-in hybrid drives
- Battery electric drives
- Fuel cell drives
- Transmissions in the electrified powertrain

Electricity-based fuels
- Degree of maturity
- Production and availability
- Addition
- Application

Traction batteries
- Benchmarking/State-of-the-art
- Potentials of new technologies
- Cell development and materials
- Life cycle analysis: production, use, recycling

Emissions
- Euro 7 and beyond
- RDE under tougher conditions
- Cold start of combustion engines
- Developments for further emission avoidance

Energy and thermal management
- Efficiency improvements and emission reduction
- Operating strategies in networked drive trains
- Waste heat recovery
- Thermal insulation
- Battery management

Development methods
- Systems engineering
- Process chain simulation and test
- Virtual application

Your presentation platform
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For information on the various presentation options, please contact:
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Further information and online submission of your proposal:
www.atzlive.de/en/powertrain

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Are you interested in presenting a paper on one of these subjects?
If so, please submit a short version of your paper via the online portal to the event page indicated.

Your submission proposal in English should contain:
- The title of the paper
- The name of the speaker with job title, company address, telephone number and e-mail address
- The name of any co-authors with company address
- The main points and a brief summary of the paper’s contents (abstract)
- Brief summary of the innovative value of the work (please submit documents in PDF)
- Classification under one of the main subject areas

On the basis of the short version of the paper, the Scientific Advisory Board for the conference will decide on its acceptance.

Information on the conference
The time allowed for presentation is 20–25 minutes with a subsequent discussion. The registration fee will be waived for one speaker per paper presented. The language of the manuscripts and slides is English.

Schedule
Deadline for submission proposals: 19 June 2020
Notification of the authors: Mid September 2020
Submission of final manuscripts: 27 November 2020
The final conference program will be published in October 2020.