



Heavy-Duty, On- and Off-Highway Engines 2020

Internal combustion engines
and their alternatives

10 – 11 November 2020
Mannheim, Germany

Call for Papers
Apply online now

Submission of proposals
no later than
11 May 2020

Impressions of 2019



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HIGHLIGHT

Visit to Daimler Truck AG

Internal combustion engines and their alternatives

/ ALTERNATIVE CONCEPTS

Batteries, hybrids, and fuel cells

/ CO₂ AND POLLUTANT EMISSIONS

Legal requirements and solutions

/ NEW DIESEL, GAS, AND DUAL-FUEL ENGINES

Development trends and new components

SCIENTIFIC DIRECTOR

Prof. Dr. Peter Eilts,
Technical University of Braunschweig



Dr. Alexander Heintzel
Editor-in-Chief
ATZ | MTZ Group

Welcome

The Paris 2050 targets cannot be met with electric mobility alone – and certainly not in the sector of commercial vehicles and heavy-duty engines. Therefore, the additional and rapid introduction of second-generation synthetic fuels and biofuels is extremely important. Only in this way, and through a well-to-wheel approach, will it also be possible to comply with the Euro VII standard.

The two-day MTZ Conference “Heavy-Duty, On- and Off-Highway Engines” will provide information on the very latest developments for designers and developers of engines for commercial vehicles and mobile machines, as well as maritime and stationary applications – as part of a unique pan-European and industry-wide transfer of expertise. The 15th conference will take place on 10 and 11 November 2020 in Mannheim, and will include a guided tour of the Daimler Truck AG plant.

On behalf of the Scientific Advisory Board, I would like to cordially invite you to present the very latest research and development findings from your company or institute. Further details on submitting your paper can be found in this Call for Papers. I look forward to your participation in the conference.

On behalf of the Scientific Advisory Board

Stay at the cutting edge!

- ✓ Highly relevant technical papers presented by renowned speakers
- ✓ Networking in the international expert community
- ✓ Innovative products and services

Heavy-Duty, On- and Off-Highway Engines

Manufacturers of large engines and related components face mounting pressures: they are expected to meet rising demands for engine output, while also reducing fuel consumption, emissions and assembly space.

New concepts for engines, emissions reduction and drivetrain optimization are called for in order to overcome these challenges. Combining presentations, in-depth discussions and networking possibilities, the international MTZ Conference “Heavy-Duty, On- and Off-Highway Engines” offers you the ideal platform.



Participants

The MTZ Conference “Heavy-Duty, On- and Off-Highway Engines” is aimed worldwide at experts from engine and vehicle manufacturers in the fields of commercial vehicles, off-highway and marine applications, stationary engines, suppliers and development partners, teaching staff and research assistants from universities, representatives of authorities and associations and engineers active in these fields.

Media partners

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.



Prof. Dr. Peter Eilts
Technical University
of Braunschweig

Scientific Director of the Conference

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Tenneco GmbH

Rolf Brück
Vitesco Technologies Emitec GmbH

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DEUTZ AG

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Winterthur Gas & Diesel Ltd.

Prof. Dr. Georg Wachtmeister
Technical University of Munich

Dr. Wolfgang Warnecke
Shell Global Solutions (Deutschland) GmbH

New diesel, gas, and dual-fuel engines for commercial vehicles, mobile machines, rail vehicles, ships, and stationary applications

- Trends in engine development
- New engines and components
- Heavy-duty engines

Alternative concepts

- Hybrid concepts, electrification
- Fuel cells
- Battery-electric drive systems

Reducing CO₂ emissions

- Alternative liquid fuels
- Gaseous fuels, hydrogen
- Efficiency optimization, waste heat utilization

Emissions control

- Legal requirements
- In-cylinder optimization
- Exhaust aftertreatment

Combustion processes, air and fuel systems

- Mixture formation and combustion
- Supercharging
- Fuel injection and gas injection systems

Engine and system optimization

- Friction reduction, mechanical optimization
- Engine management
- Measuring and analysis systems, simulation, development methods

Your presentation platform

Take this opportunity to present your latest products and services to the specialist audience: as an exhibitor in our exclusive exhibition and/or as a sponsor with an attractive advertising presentation. Make use of this industry meeting place to make valuable contacts with customers!

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/heavyduty

Heavy-Duty, On- and Off-Highway Engines 2020
10 – 11 November 2020, Germany



**Submission of
proposals
no later than
11 May 2020**

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: **11 May 2020**

Notification of the authors: **19 June 2020**

Submission of final manuscripts: **2 October 2020**

The final conference program will be published in July 2020.