

## Heavy-Duty, On- and Off-Highway Engines 2021

The future of the internal combustion engine and alternative powertrains

1-2 December 2021 Rostock, Germany or virtually via live stream

Call for Papers
Apply online now

Submission of proposals no later than 30 April 2021









Tour of the Caterpillar Motoren Rostock GmbH plant





### The future of the internal combustion engine and alternative powertrains

#### **ALTERNATIVE POWERTRAINS**

Electrified internal combustion engine concepts, battery-electric drive systems, and fuel cells

**EMISSIONS LEGISLATION AND** COMPLIANCE

CO2 and pollutant emissions

**NEW DIESEL, GAS, AND DUAL-FUEL ENGINES** 

> New components, engines, and development trends

#### **SCIENTIFIC DIRECTOR**

Prof. Dr. Peter Eilts,

Technical University of Braunschweig



Dr. Alexander Heintzel Editor-in-Chief

#### Welcome

In order to achieve the Paris climate targets, the transport sector needs to take a holistic view of the entire life cycle of product, energy source and infrastructure. Sustainable climate protection in the transport sector can only be successfully achieved with a technology-open spectrum of solutions for the diverse applications, especially against the background of the inclusion of existing fleets and the speed required.

At the MTZ Conference "Heavy-Duty, On- and Off-Highway Engines", engine developers and designers of commercial vehicles, mobile machinery, marine and stationary equipment will find out about the latest developments. On 1st and 2nd December 2021, the 16th conference will be held in Rostock, complemented by a tour of the Caterpillar Motoren Rostock GmbH plant.

On behalf of the Scientific Advisory Board, I cordially invite you to present the latest research and development results of your company/institute. Details for your presentation submission can be found in this Call for Papers. We are looking forward to your participation.

For the Scientific Advisory Board

## Alexander last

#### 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

### MTZ MTZ industrial ATZ heavyduty

#### **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

#### **Detlev Baudach**

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#### **Ulrich Weiss**

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#### **Alternative powertrains**

- · Electrified internal combustion engine concepts
- · Battery-electric powertrains
- Fuel cells

#### Reducing CO, emissions

- · Hydrogen and other gaseous fuels
- · Alternative liquid fuels
- · Efficiency optimization

#### Reducing pollutant emissions

- Legislation
- In-cylinder concepts
- Exhaust aftertreatment

#### New diesel, gas, and dual-fuel engines for commercial vehicles and off-road applications

- Heavy-duty engines
- · New engines and components
- Development trends

#### Air and fuel systems, combustion processes

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

#### **Engine and system optimization**

- · Measuring technology, simulation, development methods
- Mechanical optimization
- · Engine management

#### Your presentation platform

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For information on the various presentation options, please contact:

Elke van Lon Phone +49 611 7878-320 elke.vanlon@springernature.com

# Further information and online submission of your proposal:



www.atzlive.de/en/heavyduty

Heavy-Duty, On- and Off-Highway Engines 2021 1-2 December 2021, Rostock, Germany or virtually via live stream

Submission of proposals no later than

30 April 2021

#### 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: 30 April 2021

Notification of the authors: July 2021

Submission of final manuscripts: 29 October 2021

The final conference program will be published in August 2021.