



## Heavy-Duty, On- and Off-Highway Engines 2023

Carbon Neutrality and Sustainability in Focus

7 – 8 November 2023  
Nuremberg, Germany

**Call for Papers**  
Apply online now

Submission of proposals  
no later than  
28 April 2023

### Impressions



© MAN Truck & Bus SE – MAN Engines

### HIGHLIGHT

Tour of the engine factory of MAN Truck & Bus SE,  
Plant Nuremberg

# Carbon Neutrality and Sustainability in Focus

## / SUSTAINABLE POWERTRAINS

Fuel cells, battery-electric powertrains, hybrid drive systems, internal combustion engines

## / REDUCING EMISSIONS AND CO<sub>2</sub>

Alternative fuels, exhaust aftertreatment systems, emissions legislation

## / COMPONENTS, TRENDS, AND METHODS

System development, simulation, resources, and recycling

### SCIENTIFIC DIRECTOR

**Prof. Dr. Peter Eilts,**  
Technical University of Braunschweig



**Dr. Alexander Heintzel**  
Editor-in-Chief  
ATZ | MTZ Group,  
Springer Nature

## Welcome

As a carbon-free energy carrier, hydrogen is in the main focus of development activities – regardless of whether it is used directly, as a means of storing green electricity, or as the basis for further processing into other synthetic fuels. In the medium term, there will be no alternative to liquid or gaseous fuels in the on- and off-highway sector or in marine applications and aviation. For that reason, the further development of existing technologies is key to effective emissions reduction.

At the MTZ Conference “Heavy-Duty, On- and Off-Highway Engines”, engine developers and designers of commercial vehicles, mobile machinery, and marine and stationary equipment will find out about the latest developments. The 18th conference will be supplemented by a tour of the engine factory of MAN Truck & Bus SE, Plant Nuremberg.

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

## 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

**Detlev Baudach**  
Tenneco GmbH

**David Bennet**  
Ricardo plc

**Rolf Brück**  
Vitesco Technologies Emitec GmbH

**Prof. Dr. Bert Buchholz**  
University of Rostock

**Dr. Heiner Bülte**  
DEUTZ AG

**Bernd Danckert**  
ICCL Ltd.

**Dr. Alexander Heintzel**  
Editor-in-Chief ATZ | MTZ Group,  
Springer Nature

**Dr. Michael Krüger**  
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MAN Truck & Bus SE

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Woodward L'Orange GmbH

**Börge Nielsen**  
Daimler Truck AG

**Prof. Dr. Gerhard Reiff**  
KST-Motorenversuch GmbH & Co. KG

**Dr. Hans-Josef Schiffgens**

**Dr. Heike Többen**  
Purem GmbH

**Martin Urban**  
Rolls-Royce Solutions GmbH

**Dr. Ioannis Vlaskos**  
Winterthur Gas & Diesel Ltd.

**Dr. Wolfgang Warnecke**  
Shell Deutschland GmbH

**Dr. Marco Warth**  
MAHLE GmbH

**Ulrich Weiss**  
Liebherr Machines Bulle SA

### **Internal Combustion Engine Technologies for Alternative Fuels**

- Hydrogen
- Ammonia
- E-fuels

### **Alternative Drive Systems**

- Fuel cells
- Electrified drive systems
- Supply and charging infrastructure

### **Emissions Reduction**

- Legislation
- In-cylinder concepts
- Exhaust aftertreatment

### **New Internal Combustion Engines for Heavy-Duty Applications**

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

### **Combustion Processes, Fuel and Air Systems**

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

### **Engine and System Optimization**

- Mechanical optimization, friction reduction
- Engine management
- Measuring technology, simulation, development method

### **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:

Mr. Alex Woidich  
Phone +49 611 7878-206  
alex.woidich@springernature.com

## **Further information and online submission of your proposal:**

[www.atzlive.de/en/heavyduty](http://www.atzlive.de/en/heavyduty)

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7 – 8 November 2023, Nuremberg, Germany



**Submission of  
proposals  
no later than  
28 April 2023**

### **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: **28 April 2023**  
Notification of the authors: **July 2023**  
Submission of final manuscripts: **6 October 2023**  
The final conference program will be published in August 2023.