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# **Call for Papers**

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

Challenge: CO<sub>2</sub> limits

14th International MTZ Conference on Heavy-Duty Engines 26 and 27 November 2019 | Friedrichshafen | Germany



NEW DIESEL, GAS, AND DUAL-FUEL ENGINES Heavy-duty engines, new developments **REDUCING CO<sub>2</sub> EMISSIONS**Powertrain concepts
and engine approaches

**POLLUTANT EMISSIONS**Legal requirements and solutions

/// SCIENTIFIC DIRECTOR **Prof. Dr. Peter Eilts,** TU Braunschweig /// FACTORY TOUR **Rolls-Royce's MTU plant** 









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

#### WELCOME

The demands placed on engine manufacturers have drastically increased in recent years. In addition to complying with increasingly strict emissions legislation, they also have to respond to the customers' higher demands regarding fuel consumption and performance. At the same time, electrification is also becoming more and more important in the field of heavy-duty engines. These challenges affect the manufacturers of both mobile and stationary machines.

The MTZ conference "Heavy-Duty, On- and Off-Highway Engines" provides detailed and compact information on the very latest trends and developments for the designers and developers of engines for the commercial vehicle and mobile machine sectors and for maritime and stationary applications. In recent years, this conference has become established as the prime forum for an exchange of information and experience in the field of heavy-duty engines. It offers a unique pan-European and industry-wide transfer of expertise between the various heavy-duty engine segments and their applications. This two-day event will take place for the 14th time on 26 and 27 November 2019, this time in Friedrichshafen. At the end of the first day, the conference will also include a guided tour of the Rolls-Royce's MTU 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 active participation.

On behalf of the Scientific Advisory Board

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

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#### **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.

#### MAIN SUBJECT AREAS

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

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

#### Reducing CO<sub>2</sub> emissions

- · Powertrain concepts, electrification
- · Efficiency optimization, waste heat utilization
- Alternative fuels

#### **Combustion processes**

- · Mixture formation and combustion
- · Measuring and analysis systems, simulation

#### Air and fuel systems

- · Supercharging systems
- · Fuel injection systems
- · Gas injection systems

#### **Emissions control**

- · Legal requirements
- In-cylinder optimization
- · Exhaust aftertreatment

#### Engine and system optimization

- · Friction reduction, mechanical optimization
- · Engine management
- · Development methods

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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

#### CALL FOR PAPERS

#### Are you interested in presenting a paper on one of these subjects?

If so, please send a short version of your proposed paper to:

Michaela Kues | ATZlive Abraham-Lincoln-Straße 46 | 65189 Wiesbaden | Germany Phone +49 611 7878-274 | Fax +49 611 7878-452 michaela.kues@springernature.com

#### Your submission proposal should contain:

- · The title of the paper in English
- The name of the speaker and any co-authors with job title, company address in English, telephone number, and e-mail address
- · Main points of the paper's contents and a short abstract in English
- · Classification under one of the main subject areas in English
- · Brief indication of the innovative value of the work in English (Please submit documents in PDF or Microsoft Word format)

The Scientific Advisory Board for the conference will decide whether to accept each paper on the basis of the short version.

#### Information on the Conference

The time allowed for presentation is 20 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: **6 May 2019**Notification of the authors: **21 June 2019**Submission of final manuscripts: **18 October 2019**The final conference program will be published in August 2019.

DEADLINE FOR SUBMISSION PROPOSALS

| 6 MAY 2019