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# Call for Papers

16th International Conference

## Commercial Vehicles 2021

Truck, Bus, Van, Trailer

### Key Topics:

- **What will Future Transportation look like?**
- **Ways to achieve Zero Emission**
- **IOT, Connectivity and Digitization**
- **Ways to achieve Zero Accidents/ADAS**
- **Tomorrow's Urban Traffic – Public Transport, Van, Truck**

Hand in your abstract  
by October 30, 2020!

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+ Exhibition

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+ Plant tour

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+ Test ride



## Preface

Commercial vehicles are used for the carriage of passengers and goods. The development of commercial vehicles will anticipate the mega trends of the forthcoming second quarter of the 21st century.

The shift in significance of global markets is a particular challenge the commercial vehicle industry will be faced with. Future vehicle platforms are not only supposed to meet the requirements posed by highly industrialized logistics systems and infrastructures to carry passengers in the strong economies of the northern hemisphere, but must also accommodate local needs to a large extent. In addition, they have to match the existing purchasing power, meaning they either have to be cost-effective across the entire life span of the product or else local and efficient manufacture is possible. Limited quantities of commercial vehicle derivatives, often offered by local body specialists, require intelligent platform developments with standardized interfaces, also going across individual manufacturers.

Demographic change, too, has an impact on the commercial vehicle industry having to meet increasing demands for driver convenience and the necessity, to do hard physical labor – as previously taken for granted – with a mechanically-aided and/or automatic device. This global trend is one of the driving forces for the future application of autonomously operated commercial vehicles.

Urbanization will tremendously change the number and design of commercial vehicles deployed in urban and peri-urban areas. Road space is a scarce commodity and avoiding traffic is a major concern of the authorities in charge. Interconnecting private and public transport of goods and passengers in a smart way is hence seen as a huge opportunity for the commercial vehicle industry.

The rise or rather the introduction of new technology will help control climate change and make effective and targeted use of limited resources. Automated, autonomous and connected vehicles will be contributing towards an increase of total cost of ownership across the entire life span of a commercial vehicle. Likewise they will enhance system availability. New drive solutions and components, fuel cell, hydrogen, and synthetic fuels will lower the carbon footprint of commercial vehicles in long-haul operations and in inner-city use and at the same time reduce dependency on complex battery technology.

The program committee of the VDI Congress "Commercial Vehicles" are inviting all vehicle architects and experts to be part of this event and join in the lively discussion by exchanging their views and sharing findings and key learnings. By submitting an abstract of your paper you will have the opportunity to make contact with an international expert audience in the field of commercial vehicles. We look forward to receiving your suggestions for topics to be presented and discussed.

## International VDI Conference "Commercial Vehicles 2021" – an overview



### Learn from the Best

Listen to more than 30 international speeches and keynotes on technology trends in commercial vehicle development.



### Deep Dive meets Hands on

Factory walk-throughs and test rides allow a deeper insight to gain a better understanding of production and current developments.



### Experience steel

Let yourself be taken into the world of steel.

## Program committee

**Dipl.-Ing. Matthias Bengl**, Iveco Magirus AG, Ulm, Germany

**Dr. Thomas Dieckmann**, ZF Friedrichshafen AG, Division Commercial Vehicle Control Systems, Hanover, Germany

**Prof. Dr.-Ing. Jörg Ebert**, Ebertconsulting GmbH, Cologne, Germany

**Dipl.-Ing. Christof Kerkhoff**, VDI e.V., Düsseldorf, Germany

**Dipl.-Ing. Jörg Lützner**, Continental Automotive GmbH, Schwalbach, Germany

**Jack Martens**, DAF Trucks N.V., Eindhoven, The Netherlands

**Dr. Karl Masser**, Magna Powertrain Engineering Center Steyr GmbH & Co. KG, St. Valentin, Austria

**Herbert Mozer**, ZF Friedrichshafen AG, Friedrichshafen, Germany

**Dipl.-Ing. Thomas Nickels**, MAN Truck & Bus AG, Nuremberg, Germany

**Ing. Wolfgang Prokopp**, EvoBus GmbH, Mannheim, Germany

**Dipl.-Ing. Uwe Sasse**, Fahrzeugwerk Bernard Krone GmbH, Werlte, Germany

**Prof. Dr.-Ing. Karl Viktor Schaller**, Munich, Germany

**Dipl.-Ing. Andreas Teuber**, Volkswagen Nutzfahrzeuge, Wolfsburg, Germany

**Dr. Jürgen Wagner**, MAN Truck & Bus AG, Munich, Germany

**Enrico Wohlfarth**, Daimler Truck AG, Esslingen, Germany

## Scientific partner

### The VDI Society Automotive and Traffic Systems Technology (FVT)

With its eight departments is a home base for engineers from a wide range of technical areas in the fields of road, rail, air and water as modes of transport. As part of an active interaction with the working groups of the regional VDI associations, students and young engineers as well as the other technical VDI associations, the VDI FVT is maintaining a network nationally or internationally with other cooperation partners. The VDI FVT has set itself the task of strengthening the perception of the engineering profession and playing a part in promoting the standing of the VDI as the technical and scientific opinion leader among experts, in politics and in society as a whole. Here it is necessary to force the pace of interaction between the different areas of mobility and give expert impulses as well as developing perspectives for interdisciplinary topics in the fields of "Man and Mobility" and "Vehicles and Infrastructure". More information about VDI-FVT can be obtained from:

[www.vdi.de/fvt](http://www.vdi.de/fvt)

Submit your  
paper now!

VDI

## Call for Papers!

Are you an expert in any of the fields mentioned in the key topics? If so, we invite you to contribute actively to the success of the conference with a presentation!

**Please submit to us by October 30, 2020** an abstract not exceeding one DIN A4 page. You can register with your contribution on the website [www.vdi-wissensforum.de/01TA704021](http://www.vdi-wissensforum.de/01TA704021).

## Dates

- Deadline for abstracts: **October 30, 2020**
- Notification of authors: **December 2020**
- Submission of manuscripts: **May 14, 2021**

## The abstract must contain:

- The descriptive title of your paper
- Information about the speaker and no more than 2 co-authors (title, first name, last name, position in company, department, address, telephone number, email)
- An indication of contents covering the main points of your paper
- A statement as to the degree of innovation
- Classification by key topic
- Disclosure of own prior publications on the topic

## Key topics

We request submission of papers relating to the following topic areas:

### 1. What does Future Transportation look like?

- 1.1 Transport in megacities
- 1.2 Hub to hub
- 1.3 Last mile
- 1.4 Transport robots etc.
- 1.5 Intermodal transport
- 1.6 Weights and measures

### 2. Ways to achieve Zero Emission

- 2.1 International CO<sub>2</sub> legislation
- 2.2 Driving resistances
- 2.3 Alternative drive concepts and energy sources (e.g. RNG, hydrogen, fuel cell, battery)
- 2.4 Electrification of auxiliary units
- 2.5 Energy management
- 2.6 Fuel saving potential of the conventional drive
- 2.7 Total Cost of Ownership (TCO)

### 3. IOT, Connectivity and Digitization

- 3.1 Vehicle integration into digital logistics
- 3.2 Application examples for Big Data (e.g. predictive maintenance, predictive driving)
- 3.3 Over-the-air update
- 3.4 Data privacy

### 4. Ways to achieve Zero Accidents/ADAS

- 4.1 Automated driving
- 4.2 GSR (General Safety Regulations)
- 4.3 Assistance systems and driver convenience
- 4.4 Operating concepts (acceptance, use)
- 4.5 Passive safety

## 5. Urban Traffic in tomorrow's World – Public Transport, Van, Truck

- 5.1 Requirements towards and best practices for urban road traffic – Environment, mobility, logistics (such as transport companies, city planners)
- 5.2 Traffic routing measurements & infrastructure
- 5.3 Drive concepts for urban areas
- 5.4 Automation & Connected Vehicle

## General Information

The time allotted to a presentation is 25 minutes, followed by 5 minutes for discussion of your contribution with the audience. The presentations can be given in German or English.


The independent program committee decides based on the submitted abstract on the acceptance and classification of lectures in the conference program. Every submitter will be notified about the result by e-mail and receives information about further steps.

## Cost

Speakers participate in the conference free of charge (one person per presentation). Travel expenses will not be refunded.


## Further questions?

### Your contact:

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### Exhibition & Sponsoring:

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Any more questions?  
Simply contact us!

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I will be taking part as follows (at price per person plus Austrian VAT):

**16th International Conference Commercial Vehicles 2021**

June 17 – 18, 2021  
(01TA704021)

EUR 1.210,-

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I'm interested in Sponsoring and/or Exhibition

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A limited number of rooms have been reserved at special rates  
Park Inn by Radisson, Hessenplatz 16-18, 4020 Linz, Austria, Phone: +43 732 777 100-3502 or 3500, Email: [reservations.linz@parkinn.com](mailto:reservations.linz@parkinn.com)  
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