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!

+ Exhibition
+ Plant tour
+ 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 development 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 participate 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

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

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

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 CO2 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 (Generel 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?
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Exhibition & Sponsoring:
Your contact:
Martina Slominski
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I will be taking part as follows (at price per person plus Austrian VAT):

<table>
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<tr>
<th>16th International Conference Commercial Vehicles 2021</th>
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<tr>
<td>☐ June 17 – 18, 2021 (01TA704021)</td>
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<td>EUR 1,210,-</td>
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