International VDI Conference
Automotive Drives
The Future of Alternative Fuels and Motors
November 6-7, 2019, Amsterdam, The Netherlands

• Holistic Overview of the Challenges within the upcoming Years
• E-Mobility Market Development & Transformation
• Global and national Emissions Reduction Targets & Regulations
• OEM’s Strategies on future Drives
• Hydrogen, E-Fuels and renewable Transport from Well to Wheel
• Knowledge Transfer from other Industries and Use Cases

+ Panel Discussion
+ Interactive World Cafés
+ Parallel Conference on „Charging Infrastructure“

Meet international Experts from:

An event organized by VDI Wissensforum GmbH
www.vdi-international.com/ 01K0941019
08:30 Registration & Welcome Coffee

10:00 Chair’s Welcome and Opening Address
Thomas Schlick, Senior Partner, Roland Berger, Germany

10:15 Say Hi & Meet your Peers!
Have your business cards ready and see who else is joining the event.

I. Market Development & E-Mobility Transformation

10:30 Holistic Overview of the Challenges facing the Powertrain Industry
• Overriding challenge of legislation effecting the development of powertrains
• A technology roadmap to holistically defined future powertrain technologies
• Why, what, how: Balance of modularity, ease of adoption and cost/benefit
• Strategies in the industry: OEM powertrain positioning
Karsten Deubel, Senior Consultant – Commercial Vehicles, Frost & Sullivan, United Kingdom

11:00 Driving the E-Mobility Transformation
• New electrified tool kit
• New fully connected Volkswagen Ecosystem
• Achieving economies of scale
Gustavo C. M. B. Alonso, Head of Powertrain, co-authors: Frank Bekemeier, Chief Technical Officer & Michael Lueer, Project Manager Powertrain, all: Product Line e-Mobility, Volkswagen AG, Germany

11:30 E-Driveline for commercial Vehicles: The logical Way to gain EU-Regulations
• EU CO2 regulations for commercial vehicles by 2025/2030
• Sustainable urban delivery
• Different technical solutions, compared with each other
• A paradigm shift in urban use cases
Klaus Feldmann, Head of e-mobility, ALTRAN, The Netherlands

12:00 High-power 48V Battery Pack for mild-hybrid Applications
• 48V mild hybridization offers low cost route to reduce fuel consumption
• Fuel saving vs. hybrid system power for a range of vehicles and drive-cycles
• A compact, high-power 48V battery, tailored to mild-hybrid applications
Dr. Mike Bassett, Chief Engineer, Research & Advanced Engineering, co-authors: Jonathan Hall, Head of Research Projects & Dr. Stephen Borman, Principal Engineer, all: MAHLE Powertrain Ltd., United Kingdom

12:30 Lunch

14:00 Electric Powertrain for CO2 Reduction in heavy-duty Applications
• European CO2 reduction targets for on highway truck applications
• Improved powertrain technologies to deliver cost effective fleet emissions reductions on scale
• Implementation of technologies by commercial vehicle OEM’s in short time scales

II. Hydrogen & Fuel Cell Vehicles

16:15 Integration vs. Modularity in 3-in-1 electric Propulsion System
• 3-in-1 integrated electric propulsion
• EV performance requirements for volume segments
• Design & application modularity
Alex Serrarens, Manager Business Development, Punch Powertrain Nederland B.V., The Netherlands, co-authors: Joris Bronckaers, Product Architect & Wilfried Appeltants, Systems Engineer, both: Punch Powertrain N.V., Belgium

16:45 First Zero Emission Drive Technology that beats Diesel
• Worldwide governments force the automotive industry to cut CO2 emissions
• Climate change – Customer requirements for new drive technologies
• The new emission-free hydrogen combustion engine – Sustainable, clean and uncompromising
• Comparison of alternative propulsion technologies
• HICE Applications: Example 12m bus & 18t truck
Ivo Pimentel, Co-Founder, Business Development, H2-Fuel, KEYOU GmbH, Germany

17:15 AVL PEM Fuel Cell Concept Car
• Challenges of developing fuel cell powertrains and integration into existing platforms
• State-of-Health monitoring in automotive fuel cell systems
• Solutions for commercial vehicles including modular fuel cell system approaches
• Required adaptions in operating strategies
Falko Berg, Manager PEM Systems; Matthias Brendel, Vice President Business Field Electrification; Jürgen Rechberger, Manager Global Fuel Cell Competence Team, all: AVL List GmbH, Austria; William Resende, Global Product Manager Fuel Cell Systems, AVL Deutschland GmbH, Germany

17:45 End of Conference Day One

Get-together
At the end of the first conference day we kindly invite you to use the relaxed and informal atmosphere for in-depth conversations with other participants and speakers.
### III. Political Environment & Regulations

**09:00 E-Mobility in China**
- Electrification – seeking international competitive advantage
- Market & industry trends; OEM strategies
- NEV Regulatory Framework

_Bastian Burrer_, Head of Group NEV Products/ Electrification Products, Volkswagen (China) Investment Co., Ltd., China

**09:30 The new EU CO2 Emission Standards for light-duty Vehicles and the Transition to low-emission Mobility**
- Overview of EU policies and regulations regarding low-emission mobility
- EU post-2020 CO2 emission standards for passenger cars and vans
- Incentivizing the uptake of zero- and low-emission vehicles on the EU market

_Filip François_, Policy officer, European Commission, DG Climate Action, Belgium

**10:00 Europe in the Spotlight: Market Leadership through a balanced Policy and R&D Incentives Package**
- Alternative drives and fuels: Analysis of best practices from Europe
- What is necessary to stay ahead of other world regions
- Current European R&D funding opportunities for electromobility and autonomous driving and roadmap to Horizon Europe

_Ingo Bunzeck_, Senior Manager, Global R&D and Innovation Services, EMEIA Tax Centre, Belgium

**10:30 Networking & Coffee Break**

### IV. Alternative Fuels

**11:00 European Perspectives on renewable Transport from Well to Wheel**
- Analysis of European climate regulations in the transport sector
- Focus on advanced biofuels and synthetic electrofuels (E-Fuels)
- Political regulations of how to foster the market development of E-Fuels

_Tobias Block_, Coordinator of Renewable Fuels, German Association of the Automotive Industry (VDA), Germany

**11:30 Still charging or already driving? Electric Mobility thought through to the End**
- Importance of the electric drive for intra-logistics, battery technology and charging infrastructure
- Electric mobility for individual transport, requirements and implications
- Alternative fuels, environmental impact and required infrastructure
- Future role of public transport in metropolitan areas

_Dr. Kai Ruth_, Director Sales & Service Motive Power Germany, Exide Technologies GmbH, Germany

**12:00 Lunch**

### V. Electric Mobility & Individual Transport

**13:00 Panel Discussion**
The Role of Hybrid Electric Vehicles in future Powertrains – Just a temporary fix or a long-term solution?

- **Dr. Mike Bassett**, Chief Engineer, Research & Advanced Engineering, MAHLE Powertrain Ltd., United Kingdom
- **Ryan Maughan**, Managing Director, AVID Technology Group Ltd., United Kingdom

**14:00 Micro Mobility as a missing Piece to reduce Emissions**
- The contradiction of sustainable individual transport
- No reduction without a sacrifice
- Minimizing individual mobility
- An approach to premium micro mobility

_Thorsten Schrader_, Concept Engineer, Mobility Solutions, Audi AG, Germany

**14:30 Leveraging electric Mobility via freefloating Carsharing**
- Test area of electric technology
- Ecological benefits
- Customer experience
- Charging optimization

_Thorsten Sobe_, Business Development Manager Electric Mobility, SHARE NOW, Germany

**15:00 Closing Remarks**

**15:15 End of Conference**

### Reasons to attend

1. Meet experts from the powertrain development and e-mobility sector
2. Find out how OEM and supplier deal with political influences and regulations
3. Gain insights on technological solutions to support the e-mobility transformation
4. Learn about different solutions for alternative fuels and the combustion engine
5. Prepare for interactive World Café sessions
6. Profit from the parallel Conference on Charging Infrastructure
7. Network with your peers during the breaks and at the evening reception
More and more EV’s are entering our roads every day. However, compared to their fossil fueled cousins, the necessary infrastructure isn’t nearly as well developed. OEMs, operators and energy suppliers are working hard towards realizing a smart and interoperable charging infrastructure network while facing complex end users expectations.

**Renowned Speakers will discuss the following Topics:**

- CI Market, Business Case & Business Models
- Regulations & Standardization
- New CI Technologies – Challenges & Trends
- Interoperability & User Friendliness
- EV’s as Part of a sustainable Energy Grid
- Battery Storage & EV Charging
- Charging & Security
- Future EV Charging: Impact of Fleets, AV’s and Ride Sharing
+ World Cafés

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Terms and Conditions

Registrations: Registrations for conference attendance must be made in writing. Confirmation of your registration and the associated invoice will be mailed to you. Please do not pay your conference attendance fee until you have received our invoice and its invoice number to be stated for transfer. Dutch VAT directives apply. Please state your VAT-ID with your registration.

Conference venue
Steigenberger Airport Hotel Amsterdam
Stationsplein ZW 951
1117 CE, Schiphol Oost, The Netherlands
Phone: +31 20 5400777
Email: meetings.airporthotel-amsterdam@steigenberger.com

Hotel room reservation: A limited number of rooms has been reserved for the benefit of the conference participants at the Steigenberger Airport Hotel Amsterdam. Please refer to “VDI Conference”. For more hotels: www.vdi-wissensforum.de/hrs

VDI Wissensforum service package: The conference package includes the conference documents (online), beverages during breaks, lunch and the get-together on November 6, 2019.

Conference attendance conditions and terms: By way of your registration you accept the conference attendance conditions and terms of VDI Wissensforum GmbH as binding. Any cancellation of your registration must be made in writing. We will charge you only an administrative fee of € 50.00 plus Dutch VAT if you cancel your registration earlier than 14 days ahead of the conference date. Any cancellation that reaches us after this deadline will entail the conference attendance fee as stated in our invoice to be charged in full. The date of the post office stamp of your written cancellation will be the decisive criterion. In that case, we will gladly mail you the conference documents on request. Subject to agreement, you may name a substitute participant. Individual parts and sections of conferences and seminars cannot be booked. You will be informed without delay if an event has to be cancelled for unforeseeable reasons. In that instance, you will be entitled only to a refund of your conference attendance fee if already paid. We reserve the right to exchange speakers and/or change the program sequence in exceptional cases. In any case, the liability of VDI Wissensforum GmbH is restricted exclusively to the conference attendance fee.

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Please submit your topic to:

Carolin Leuchten
Product Manager
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International VDI Conference  
Automotive Drives

Yes, I will participate as follows:

- Participation Fee + VAT
  - VDI Conference 06.-07.11.2019
  - (01KO941019) € 1790

- I am interested in sponsoring and/or exhibition

- Participation Fee VDI-Members* Save 50 € for each Conference Day.
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