

VDI

HYBRID

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“

OEM
Perspectives
from
VW & Audi

Meet international Experts from:

ALTRAN



AVID
technology

AVL



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Building a better
working world

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MAHLE
Powertrain

SHARENOW

VDA
Verband der
Automobilindustrie



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

- Required changes to address the huge energy demands of the industry
- Ryan Maughan, Managing Director, AVID Technology Group Ltd., United Kingdom

14:30 Interactive World Café Session

- The need for lifecycle assessment to enable a comprehensive comparison
- Fall of the internal combustion engine – Is it just an image problem?
- Methods of Electrification

15:45  Networking & Coffee Break

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

II. Hydrogen & Fuel Cell Vehicles

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 adaptations 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, EMEA 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

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

V. Electric Mobility & Individual Transport

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 about 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

2nd International VDI Conference

Charging Infrastructure for E-Mobility

Parallel running
Conference –
Free of extra
Charge

Date and Venue:

November 6-7, 2019

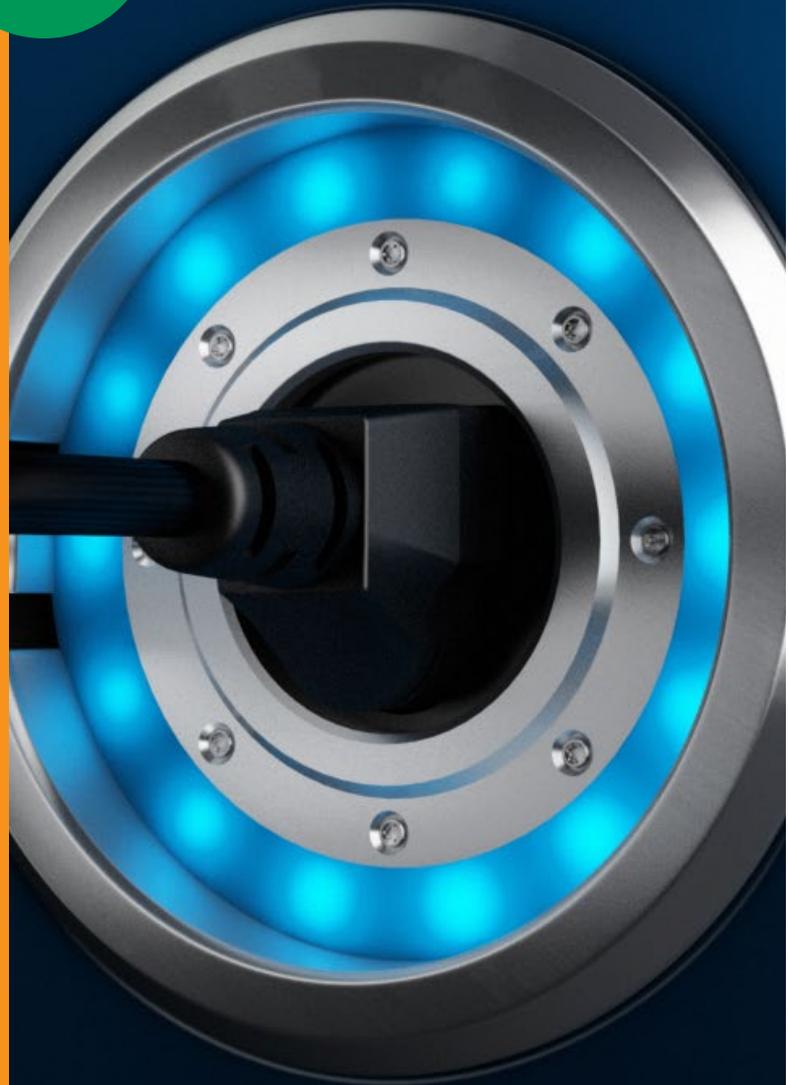
Amsterdam, The Netherlands

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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Registration

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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



You will find more hotels
close to the venue at
www.vdi-wissensforum.de/hrs

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.

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Automotive Drives

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Register online!

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Participants
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VDI Conference 06.-07.11.2019
(01K0941019) € 1790

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