

VDI

1st International VDI Conference

Future of Fuel Cells

Applications for Automotive and Heavy Duty Trucks

November 16-17, 2021 in Nuremberg, Germany

- Hydrogen Economy: On the Edge to Gigafactories
- Passenger Vehicles: Learning from International Best Projects
- Commercial Vehicles: Energy Transformation for Heavy Duty Trucks
- Technology Development: System Design for Mobility Applications
- Hydrogen Ecosystem: Understanding the Infrastructure Build-up

+ Panel Discussion „Vehicles Technology and Infrastructure Build-up“

+ World Café on Exploring National Strategies & International Cooperation

+ Start-up session with the newest players on the market

Join the debate
with experts from
industry, science
and politics

Meet international Experts from:



BOSCH



cellcentric



H2MOBILITY



NACO

**RATP
GROUP**

strategy&
Part of the PaC network

An event organized by VDI Wissensforum GmbH
www.vdi-international.com/01K0945021



H₂
Hydrogen



About us

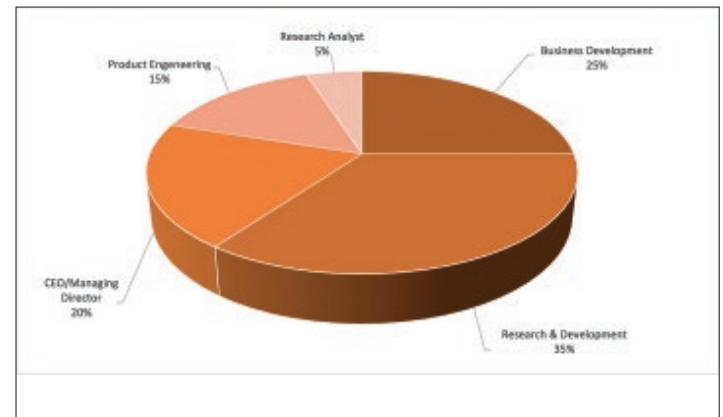
VDI

The Association of German Engineers (VDI) is one of the largest technical-scientific associations in Europe. Throughout the years, the VDI has successfully expanded its activities nationally and internationally to foster and impart knowledge about technology-related issues. As a financially independent, politically unaffiliated and non-profit organization the VDI is recognized as the key representative of engineers both within the profession and in public.

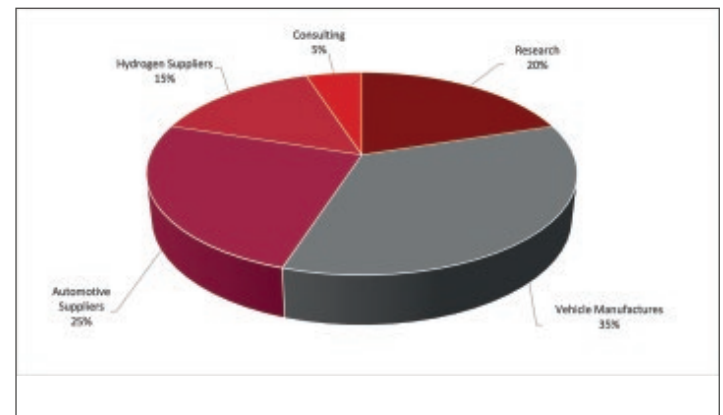
Supporting Experts

Dr. Philipp Rose PwC Strategy& (Germany) GmbH, Berlin

Expected Participants according to Functions



Expected Participants according to Industries



Reasons to attend

Meet international experts to discuss the newest fuel cell trends.

Learn about the strategies to roll-out fuel cell production.

Get informed about current initiatives in Europe and abroad.

Network with experts and important automotive representatives.

Benefit from safe and unique networking opportunities.

Hear from selected speakers about the adoption towards hydrogen and fuel cell technology.

Discuss the Impact of the change in mobility habits and hydrogen technology for automotive.

09:00 Registration & Welcome Coffee

10:00 Chair's Welcome and Opening Address

Dr. Philipp Rose, Manager, Strategy&, Germany

10:15 Say Hi and Meet your Peers!

Introduce yourself, have your digital business cards ready and discover who else is joining the event. Get to know your peers!

10:30 Future needs Heritage: Hydrogen Fuel Cells Gigafactory

- Technology Development
 - Fuel Cells for Long-Haul Heavy-Duty and other applications
 - Business perspective towards high-volume commercialization
- Prof. Dr. Christian H. Mohrdieck, Managing Director, Cellcentric, Germany

I. Hydrogen Economy: National Strategies & International Cooperation

11:15 The Hydrogen Economy

Dr. Klaus Bonhoff, Director General, Federal Ministry of Transport and Digital Infrastructure, Germany

11:45 The Role of Fuel Cells for the Energy Transformation in Mobility

- What are the world's approaches towards fuel cells in mobility?
- Who will deliver hydrogen for our fuel cell electric vehicles?
- Will FCEV and hydrogen refuelling stations be economically viable?

Ulf Groos, Head of Department Fuel Cell Systems, Fraunhofer ISE, Germany

12:15  Networking Lunch

13:30 Energy pathways for a climate-neutral Germany in 2045

Prof. Dr.- Ing. Detlef Stolten, Director, Institute - Techno-economic systems analysis (IEK-3), Forschungszentrum Jülich GmbH, Germany

Hydrogen for
the energy
transition

14:00 Interactive World Café

During this session, we invite you to directly engage with other experts in small round table discussions. Identify challenges within your sector as well as problems, needs and solutions. Decide what exactly you would like to discuss and introduce your own experiences and cases.

Topics:

- Changing Mobility Habits (open)
- Hydrogen Fuel Cells in Aerospace and Maritime Applications (open)
- The Way towards a Hydrogen Society (open)

15:30  Networking & Coffee Break

II. Passenger Vehicles: International Best Practices & Market Challenges

16:00 Hydrogen Fuel Cell Technology at the BMW Group

- Introduction of the BMW iX5 hydrogen vehicle project
- Technological deep dive into the BMW fuel cell powertrain
- FCEV as a complement to BEV in the electrification of mobility
- Challenges and perspectives for FCEVs in passenger vehicles

Dr. Jürgen Guldner, General Project Manager Hydrogen Technology and Vehicle Projects, BMW, Germany

16:30 Speaking slot reserved for Toyota

17:00 Lessons learned from leading fuel-cell vehicle markets: Japan, California and Germany

- Government and industry in Japan, California and Germany are working to accelerate the production and adoption of fuel-cell passenger vehicles, buses and trucks as well as refuelling stations
- A mixture of common and unique approaches and outcomes can be observed
- Comprehensively examining these reveals important lessons for efforts to accelerate fuel cell vehicles in these countries and beyond

Assoc. Prof. Gregory P. Trencher, Associate Professor, Graduate School of Global Environmental Studies at Kyoto University, Japan

18:00 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.

09:00 Chair's Welcome

Dr. Philipp Rose, Manager, Strategy&, Germany

III. Commercial Vehicles: International Benchmarks & Current Pilot Projects

09:15 Speaking slot reserved for MAN

09:45 Hydrogen-Fuelled Heavy Duty Trucks in Daily Usage

Marc Freymüller, CEO, Hyundai Hydrogen Mobility, Switzerland

10:15 H2 Challenges for a Public Transport Operator

- Green generation vehicles
- Supply and Maturity of vehicles
- Long term maintenance

Dr. Côme Berbain, Head of Innovation, RATP Group, France

10:45 ☕ Networking & Coffee Break

IV. Under the Hood: Newest Technologies & Technical Challenges

11:15 Fuel Cell System Design in the World of Decarbonized Heavy Duty Transport

- Development of Stack specifically for heavy duty application
- Integrated toolchain to optimize development process
- Predictive functionality for further fuel consumption improvements
- Lifetime improvements

Amy Nelson, Manager & Stack Architect, AVL Fuel Cell Canada Inc., Canada,
co-author: Falko Berg, Manager PEM Systems, AVL List GmbH, Austria

11:45 Fuel Cell Solutions For Mobility Applications

- Use cases for Fuel Cell solutions in mobility applications
- Requirements to Fuel Cell solutions
- Status of development and mass production preparation

Christoffer Uhr, Vice President Engineering Fuel Cell Mobility Solutions, Bosch, Germany

12:15 Start-up Session

In regards to fuel cell applications for automotive and commercial vehicles, there are many interesting industry newcomers that significantly influence the market. Listen to their presentations and get actively involved in the speed networking session. **Use the chance and present your start-up free of charge!**

Confirmed Start-ups:

Camideos, Germany
EH Group Engineering AG, Switzerland

Insplorion AB, Sweden
Naco Technologies, Latvia
NanoSun, United Kingdom

12:45 🍴 Networking Lunch

V. Hydrogen Ecosystem: Infrastructure Build-up & Current Initiatives

14:00 Speaking slot reserved for Linde Engineering

14:30 Refuelling Heavy Trucks with Hydrogen: Options and Challenges

- Status of refuelling options for HD & trade offs
- Infrastructure today & outlook

Nikolas Iwan, CEO, H2 MOBILITY Deutschland, Germany

15:00 Closing Panel Discussion: Vehicles Technology and Infrastructure Build-up

Hosted by Dr. Philipp Rose, Manager, Strategy& Germany
Panelists to be announced November 1, 2021.

16:00 End of Conference

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If you want to meet with and reach out to the first-rate experts attending this VDI conference and to powerfully present your products and services to the well-informed community of conference participants, please contact:

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Become a speaker

Become a speaker at our international VDI Automotive Conferences. Make yourself known in the industry and discuss best practice examples with other international experts. We are looking for speakers on: Autonomous Trucking and Transportation, Electrified Drivetrains, Hydrogen and Fuel Cell Automotive Technology.

Please submit your topic to:
Benedikt Rothhagen
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International Business Development
Phone: +49 211 6214-194
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Registration

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. German VAT directives apply. Please state your VAT-ID with your registration.

Conference venue
Leonardo Royal Hotel Nürnberg
Bahnhofsplatz 3
90443 Nürnberg

Phone: +49 911 633660
Email: info.royalnuernberg@leonardo-hotels.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 Leonardo Royal Hotel Nürnberg. 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 16, 2021.

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 an administrative fee of € 250.00 plus German VAT if you cancel your registration earlier than 4 weeks 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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Register online!

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Yes, I will participate as follows:

Participation Fee + VAT
 VDI Conference 16.-17.11.2021
(01K0945021)
€ 1840

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