

international **engine** 7th **Congress**

Meeting Place for the Engine Community



PC



CV



Fuels

18 and 19 February 2020 | Baden-Baden | Germany
with accompanying trade exhibition

Main topics

- Climate protection: specifications, technology, economy, markets, life cycle
- Gasoline, diesel and gas engines: efficiency optimization, electrification, CO₂ reduction
- Emissions: outlook to EU7, real emissions, solutions
- Synthetic CO₂-neutral fuels, hydrogen: efficiency, production, application, costs

Panel discussion

**Future mobility and environmental objectives –
what will be the role of the internal combustion engine?**

Top speakers



Prof. Dr. Christian Beidl, TU Darmstadt | **Dr. Martin Berger**, MAHLE Powertrain GmbH |
Dr. David Bothe, Frontier Economics Limited | **Dr. Matthias Brendel**, AUDI AG |
Rolf Heinrich Dreisbach, AVL List GmbH, Austria | **Dr. Günter Fraidl**, AVL List GmbH, Austria |
Markus Maly, OMV Refining & Marketing GmbH, Austria | **Dr. Peter Sauermann**, BP Europa SE |
Dr. Thomas Schlick, Roland Berger GmbH | **Tong Wang**, China Automotive Technology & Research Center

international **engine** 7th congress

A WARM WELCOME TO ALL PARTICIPANTS

Climate protection targets and air quality specifications are changing our mobility. Europe has agreed on a further reduction in CO₂ limits. The electrification of powertrains is one solution that can fulfill part of our mobility and transportation requirements. However, national and international markets require a multi-track approach that must not neglect the internal combustion engine. CO₂-neutral fuels are indispensable components of this approach.

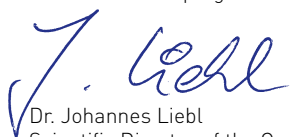
Once again in 2020, the International Engine Congress will continue its systematic examination of the complete system of internal combustion engines and innovative fuels on which it has consistently focused for many years. Efficient passenger car and commercial vehicle engines combined with new fuels are the key technology for CO₂-neutral individual mobility with low emissions.

Stay abreast of current trends and benefit from a lead in knowledge!

- You can expect international speakers as well as top-level presentations and panel discussions
- You can switch between lectures at any time, if you prefer to hear about another topic
- The congress is a great opportunity to "network" – the evening event for the engine community offers stimulating discussions in a pleasant, relaxing atmosphere
- The trade exhibition, held in parallel, provides ample information about innovative products and services in the field of combustion engine development

We look forward to your participation.

On behalf of the program advisory boards



Dr. Johannes Liebl
Scientific Director of the Congress,
Editor-in-Charge ATZ | MTZ | ATZelektronik

EVENING FOR THE ENGINE COMMUNITY AT THE UNIMOG MUSEUM GAGGENAU

As part of the International Engine Congress, we cordially invite you to spend an evening with other guests at the Unimog Museum in Gaggenau. Look forward to interesting discussions with your colleagues over dinner and expand your network.



Experience the fascination of the Unimog – with vehicles you can examine, touch, and be driven in. Have dinner among historic vehicles, learn more about the technical features of the Unimog, and enjoy a very special driving experience on the museum's thrilling outdoor test circuit, with its 100 % uphill gradients, 70 % downhill gradients, and 20 degree tilt angles.

ATZlive and VDI Wissensforum cordially invite you:
Tuesday, 18 February 2020, 19:00 h in Gaggenau

A bus transfer from the congress center to the Unimog Museum and back will be provided.



**SIMULTANEOUS INTERPRETING
GERMAN → ENGLISH**

ORGANIZERS

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www.ATZlive.com

VDI Wissensforum
www.vdi-wissensforum.de

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The event is primarily aimed at engineers and technicians in the industry or those involved in research and teaching, who are engaged in the optimization of the traditional developmental areas of the combustion engine or the advancement of procedures and systems to produce conventional or renewable fuels and lubricants. The lectures will be equally attractive for chemists and biologists who work in this industry. The focus will be on both diesel and spark-ignition engines (gasoline/gas) for passenger and commercial vehicles and off-highway applications.

PROGRAM ADVISORY BOARDS

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Editor-in-Charge
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Robert Bosch GmbH

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Germany GmbH



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FPT Motoren-
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INNOVATIVE FUELS



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Frontier Economics
Limited



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Landau GmbH



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Director of the
Institute, IFKM,
Karlsruhe Institute
of Technology (KIT)



Prof. Dr. Georg Wachtmeister
Ordinary, Chair of
Internal Combustion
Engines,
TU Munich



Dr. Wolfgang Warnecke
Chief Scientist
Mobility, Shell
Global Solutions
(Deutschland)
GmbH



Dr. Werner Willems
Technical Specialist
Powertrain
Combustion Systems,
Ford Forschungs-
zentrum Aachen GmbH

Tuesday, 18 February 2020

08:30

Welcome and opening of the congress as well as introduction to the program of lectures
Dr. Johannes Liebl, Scientific Director of the Congress

KEYNOTE LECTURES I

 **Moderation: Dr. Johannes Liebl**, ATZ | MTZ | ATZelektronik

Auditorium (Basement)

Energy transition in the transport sector needs legislative changes



08:45

Markus Maly, Department Manager Market Analysis Downstream Oil, OMV Refining & Marketing GmbH, Austria, Co-author: Johanna Julia Atzmannstorfer, OMV AG, Belgium

Passenger car propulsion systems – vision and technical reality



09:10

Dr. Günter Fraidl, Senior Vice President, AVL List GmbH, Austria

Climate protection and mobility – an economic optimization problem!



09:35

Dr. David Bothe, Associate Director, Frontier Economics Limited

Joint discussion of the keynote lectures

10:00

Keynote speakers I, moderator, plenary session participants

11:15

parallel sessions

11:15

PC engine technology
Electrification



11:15

CV engine technology
Gas engines



11:15

Innovative fuels
Efficiency of fuels and engines



14:30

PC engine technology
Emissions I



14:30

CV engine technology
Variable valve timing, ultra-low emissions



14:30

Innovative fuels
Paths toward PtX industrialization



PANEL DISCUSSION

Future mobility and environmental objectives – what will be the role of the internal combustion engine?

16:45



Dr. David Bothe, Associate Director, Frontier Economics Limited



Karl Dums, Director Advanced Engineering Powertrain & Powertrain Strategy, Dr. Ing. h.c. F. Porsche AG



Prof. Dr. Uwe Dieter Grebe, Managing Director, AVL List GmbH, Austria



Gregor Petrowitsch, Representative, Fridays for Future Graz, Austria

as well as one representative from politics



Moderation:

Dr. Alexander Heintzel, Editor-in-Chief ATZ | MTZ Group, and **Wolfgang Maus**, Managing Director, WM Engineering & Consulting GmbH

18:15

End of the first day of the congress

19:00

Evening for the engine community

at the Unimog Museum Gaggenau

Wednesday, 19 February 2020



09:30 Coffee break
12:00 Lunch
14:30 Coffee break

08:30

parallel sessions

08:30



PC engine technology
 Internal combustion engine optimization

08:30



CV engine technology
 Supercharging

08:30



Innovative fuels
 PtX production and use

KEYNOTE LECTURES II

Moderation: Prof. Dr. Christian Beidl, TU Darmstadt

Auditorium (Basement)

10:15

Pathways to sustainable propulsion systems – let us go for innovation and fresh thinking



Prof. Dr. Christian Beidl, Head of Institute for Internal Combustion Engines and Powertrain Systems (VKM), TU Darmstadt

10:30

Modular hybrid powertrain adapted for synfuels



Dr. Martin Berger, Vice President Corporate Research and Advanced Engineering, MAHLE Powertrain GmbH, Co-authors: Dr. Marco Warth, MAHLE International GmbH, Simon Reader, Dr. Mike Bassett, both MAHLE Powertrain Ltd., UK

11:00

50 % efficiency for the internal combustion engine – the realization of a vision



Rolf Heinrich Dreisbach, Executive Vice President, Co-authors: Martin Wieser, Hans Felix Seitz, Helmut Theissl, all AVL List GmbH, Austria

11:30

Audi Denkwerkstatt: What can the powertrain world learn from the agile start-up world?



STIMULUS KEYNOTE

Dr. Matthias Brendel, Head of Audi Denkwerkstatt, AUDI AG

13:30

parallel sessions

13:30



PC engine technology
 Emissions II

13:30



CV engine technology
 The engine in the hybrid powertrain

13:30



Innovative fuels
 PtX application

KEYNOTE LECTURES III

Moderation: Dr. Johannes Liebl, ATZ | MTZ | ATZelektronik

Auditorium (Basement)

15:00

Mobility 2050



Dr. Peter Sauermann, Regional Technology Director Europe, BP Europa SE

15:30

China automotive fuel economy standards and fuel efficiency promotion policies



Tong Wang, Senior Project Manager, China Automotive Technology & Research Center (CATARC)

16:00

Future powertrain mix 2030 and beyond



Dr. Thomas Schlick, Senior Partner Automotive, Roland Berger GmbH

During the breaks you have the opportunity to visit the exhibition!

to the parallel sessions



16:30

Outlook and concluding remarks
Dr. Johannes Liebl, Scientific Director of the Congress

Presentations

parallel sessions

**Tuesday,
18 February 2020**



Breaks

10:30 Coffee break

12:45 Lunch

16:00 Coffee break

PC engine technology

Auditorium (Basement)



ELECTRIFICATION

Moderation: Dr. Martin Berger,
MAHLE International GmbH

11:15

Results of a patent analysis and a market study for the estimation of concepts of future hybrid vehicle drives

Prof. Dr. Wilhelm Hannibal, Professor of Design, Faculty of Mechanical Engineering, South Westphalia University of Applied Sciences, Co-authors: Niklas Haverkamp, Kanzlei Patentanwalt Prof. Dr. Jens Haverkamp, Prof. Dr. Peter Eilts, Institute of Internal Combustion Engines (IVB), TU Braunschweig

11:45

TwinRex – Dedicated Hybrid Engine for a serial-parallel powertrain with excellent cost-value index

Dr. Oguz Budak, Team Manager Gasoline Combustion Systems, Co-authors: Dr. Norbert Alt, Andreas Sehr, Dr. Tolga Uhlmann, all FEV Europe GmbH

12:15

Future diesel powertrain in LCV and SUV – electrified, modular platform with focus on emission, efficiency and cost

Dr. Wolfgang Schöffmann, Head of Technology Base Powertrain, Co-authors: Michael Howlett, Michael Weissbäck, Hannes Wancura, all AVL List GmbH, Austria



EMISSIONS I

Moderation: Dr. Norbert Alt, FEV Europe GmbH

14:30

The path towards vehicles with ultra clean internal combustion engines and the future emission regulations in Europe

Dr. Panagiota Dilara, Clean Vehicles Team Leader, Internal Market, Industry, Entrepreneurship and SMEs, European Commission, Belgium

15:00

Systemic development approach of optimized piston ring design to reduce particulate raw emissions

Thomas Bastuck, Project Manager Pre-Development, Co-authors: Richard Mittler, both Federal-Mogul Burscheid GmbH, Dr. Steffen Hoppe, Federal-Mogul Holding Deutschland GmbH

15:30

The ring catalyst – an innovative, ultracompact solution for EU7

Rolf Brück, Managing Director, Co-author: Thomas Härig, both Vitesco Technologies Emitec GmbH

CV engine technology

Forum (Ground Floor)



GAS ENGINES

Moderation: Prof. Dr. Christian Beidl, TU Darmstadt

11:15

MPI valves for use in large engine applications – challenges in the development and derived benefits for operation

Dr. Peter Christiner, Senior Manager Engineering, Co-authors: Claudia Hengstberger, Michael Köhler, Markus Schmitzberger, Andreas Stimmeder, all Robert Bosch AG, Austria

11:45

Natural gas vehicle development in Japan: the utilization of natural gas as an alternative fuel

Akiyoshi Kishi, Section Manager, Isuzu Motors Limited, Japan

12:15

Managing cryogenic fuels on heavy-duty vehicles

Adrian Post, Chief Systems Engineer, Fuel Supply, Co-authors: David Mumford, Gage Garner, Robbi McDonald, all Westport Fuel Systems, Canada



VARIABLE VALVE TIMING, ULTRA-LOW EMISSIONS

Moderation: Roland Nipp, ISUZU MOTORS Germany GmbH

14:30

Variable valve actuation as an efficient measure for OHV drive systems

Dr. Georg Töpfer, Coordinator of Advanced Engineering, Co-authors: Adrian Troeger, both DEUTZ AG, Justus Himstedt, Stefan Steichele, both MAHLE GmbH

15:00

CO₂ reduction by minimizing friction at the pcu in conflict of targets with increased oil aerosol formation

Magnus Lukas Lorenz, Engineer for Durability and Functional Testing HDEP and MDEG Engines, Co-authors: Jürgen Lehmann, Dr. Peter Kožuch, all Daimler Truck AG, Prof. Dr. Thomas Koch, Institute for Piston Engines (IFKM), Karlsruhe Institute of Technology (KIT)

15:30

HD diesel engine – exhaust gas temperature management and advanced exhaust gas aftertreatment technology for ultra low NO_x emission legislation

Jonas Edvardsson, Technical Coordinator, Johnson Matthey, Sweden, Co-author: Dr. Hannes Noll, AVL List GmbH, Austria

Innovative fuels

Kongress-Saal I (1st Floor)



EFFICIENCY OF FUELS AND ENGINES

Moderation: Wolfgang Maus, WM Engineering & Consulting GmbH

11:15

Just a drop in the fuel tank? The potential of synthetic fuels

Prof. Dr. André Bardow, Director of the Institute, Chair of Technical Thermodynamics and Institute for Thermodynamics (LTT), RWTH Aachen University

11:45

Liquid fuels as chemical batteries

Prof. Dr. Robert Schlögl, Director of Inorganic Chemistry at FHI, Director of Heterogeneous Reactions at CEC, Fritz Haber Institute of the Max Planck Society

12:15

Super lean burn technology for a 50 % thermal efficiency SI engine

Prof. em. Norimasa Iida, Super Lean Burn Engine Laboratory, Co-author: Prof./Ph.D. Takeshi Yokomori, both Keio University, Japan



PATHS TOWARD PTX INDUSTRIALIZATION

Moderation: Dr. Wolfgang Warnecke, Shell Global Solutions (Deutschland) GmbH

14:30

Processes for the production of OME fuels

Prof. Dr. Jakob Burger, Professor of Chemical and Thermal Process Engineering, TU Munich, Co-authors: Dr. Eckhard Ströfer, OME Technologies GmbH, Prof. Dr. Hans Hasse, Laboratory of Engineering Thermodynamics, TU Kaiserslautern

15:00

Roadmap to an OME specification

Dr. Thomas Wilharm, CEO, Co-authors: Dr. Hendrik Stein, both ASG Analytik-Service GmbH, Innokentij Bogatykh, Faculty of Mechanical and Process Engineering, Augsburg University of Applied Sciences

15:30

Cost-efficient and sustainable cars

Dr. Hermann Pengg-Bührlen, Managing Director, Audi e-gas Betreibergesellschaft m.b.H., AUDI AG, Co-authors: Martin Zapf, Prof. Christian Weindl, both Coburg University, Dr. Thomas Büttler, Dr. Christian Bach, both Eidgenössische Materialprüfungsanstalt (EMPA), Switzerland

Presentations

parallel sessions

Wednesday,
19 February 2020



Breaks

09:30 Coffee break

12:00 Lunch

14:30 Coffee break

PC engine technology

Auditorium (Basement)



INTERNAL COMBUSTION ENGINE OPTIMIZATION

Moderation: Prof. Dr. Uwe Dieter Grebe, AVL List GmbH

08:30

The polyvalent internal combustion engine – technologies and combinations of those as a basis for future engine families

Marc Sens, Senior Vice President Advanced Development
Powertrain, Co-authors: Michael Günther, Torsten Tietze,
Mirko Leesch, Wolfgang Wukisiewitsch, Christoph Danzer,
all IAV GmbH

09:00

The new 4 cylinder engine for the DRM – a blueprint for motorsport in the future?

Ulrich Baretzky, Director Engine Development AUDI
Motorsport, AUDI AG



EMISSIONS II

Moderation: Prof. Dr. Helmut Eichlseder, TU Graz

13:30

Emissions and fuel consumption in real driving

Dr. Thomas Hametner, Head of Engineering, Test and Safety,
Österreichischer Automobil-, Motorrad- und Touringclub
(ÖAMTC), Austria, Co-authors: Dr. Reinhard Kolke,
ADAC e. V., Anton Keller, Touring Club Schweiz (TCS),
Switzerland, Lone Otto, FDM, Denmark

14:00

Interaction and influence of HVO-based fuels on diesel combustion – characteristics of PM, emission performance, efficiency and CO₂ potential

Paul Lagaly, Scientific Assistant, Co-authors: Daniel Erforth,
Dr. Heiko Kubach, Dr. Olaf Toedter, Prof. Dr. Thomas Koch,
all Institute for Piston Engines (IFKM), Karlsruhe Institute
of Technology (KIT)



CV engine technology

Forum (Ground Floor)



SUPERCHARGING

Moderation: Dr. Markus Schwaderlapp, DEUTZ AG

08:30

The second-generation electrically driven compressor – more power for more possibilities

Dr. Hermann Breitbach, Vice President Global Engineering and Innovation, Co-authors: Dr. Ralf Christmann, Dietmar Metz, all BorgWarner Turbo Systems Engineering GmbH

09:00

Electrified turbomachinery for reduced emissions and fuel usage in internal combustion engines

Dr. Shinri Szymko, Advanced Engineering Director, Bowman Power Group Ltd, UK



THE ENGINE IN THE HYBRID POWERTRAIN

Moderation: Jürgen Lehmann, Daimler AG

13:30

48V hybrid system based on a switched reluctance motor for city busses

Markus Lampalzer, Teamleader Engine Mechatronics, **Michael Lechner**, Teamleader Testing Inverter E-Machine, both MAN Truck & Bus SE

14:00

Electrified efficiency – diesel hybrid powertrain concepts for light commercial vehicles

Dr. Joschka Schaub, Department Manager Diesel Powertrain Concept and Controls, Co-authors: Dr. Markus Ehrly, Matthias Uebbing, all FEV Europe GmbH, Dr. Thorsten Schmidt, Volkswagen AG

Innovative fuels

Kongress-Saal I (1st Floor)



PTX PRODUCTION AND USE

Moderation: Dr. David Bothe, Frontier Economics Limited

08:30

Hydrogen as an option to manage power generation intermittency

Martin Rothbart, Senior Product Manager, Co-authors: Jürgen Rechberger, Richard Schauerl, David Reichholf, all AVL List GmbH, Austria

09:00

Hydrogen as a fuel – production, distribution and outlook

Paul Karzel, OEM Interface Manager – Hydrogen, Co-authors: Dr. Wolfgang Warnecke, Dr. Andreas Kolbeck, all Shell Deutschland Oil GmbH



PTX APPLICATION

Moderation: Dr. Werner Willems, Ford Forschungszentrum Aachen GmbH

13:30

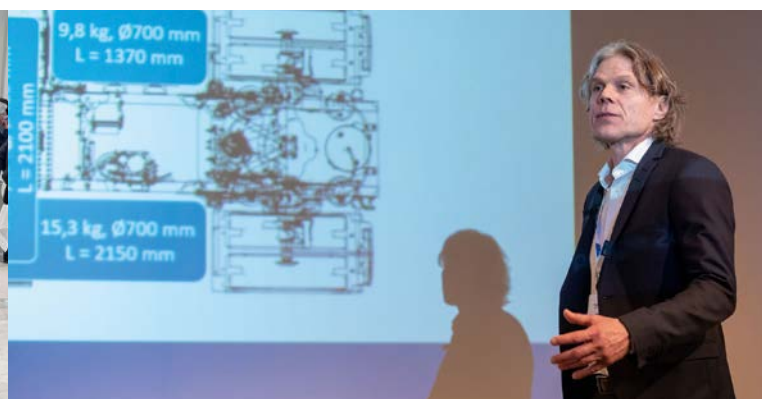
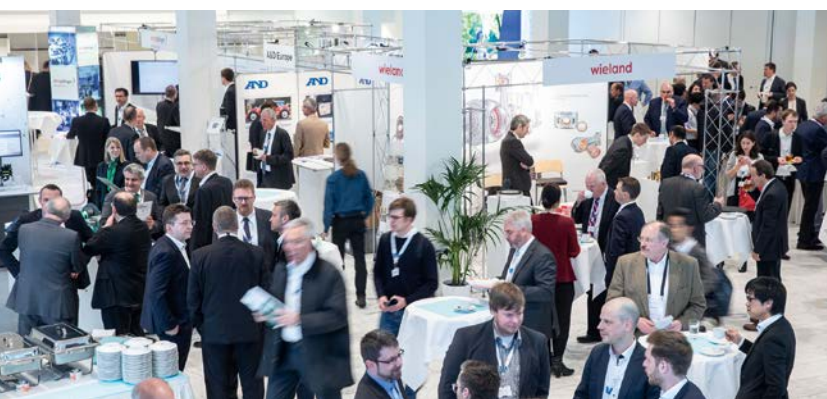
Renewable drop-in fuels as an immediate measure to reduce CO₂ emissions of heavy-duty applications

Dr. Barbara Graziano, Project Manager Emissions & Performance, Diesel Powertrains, Co-authors: Avnish Dhongde, both FEV Europe GmbH, Jaykumar Yadav, Vikram Betgeri, both Institute for Combustion Engines (VKA), RWTH Aachen University

14:00

Sustained CO₂ reduction in car traffic with renewable fuels

Karl Dums, Director Advanced Engineering Powertrain & Powertrain Strategy, Co-authors: Hans-Peter Deeg, Marcos Remedios Marques, Dietmar Schwarzenthal, all Dr. Ing. h.c. F. Porsche AG





EXHIBITION AND SPONSORSHIP

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- FKFS
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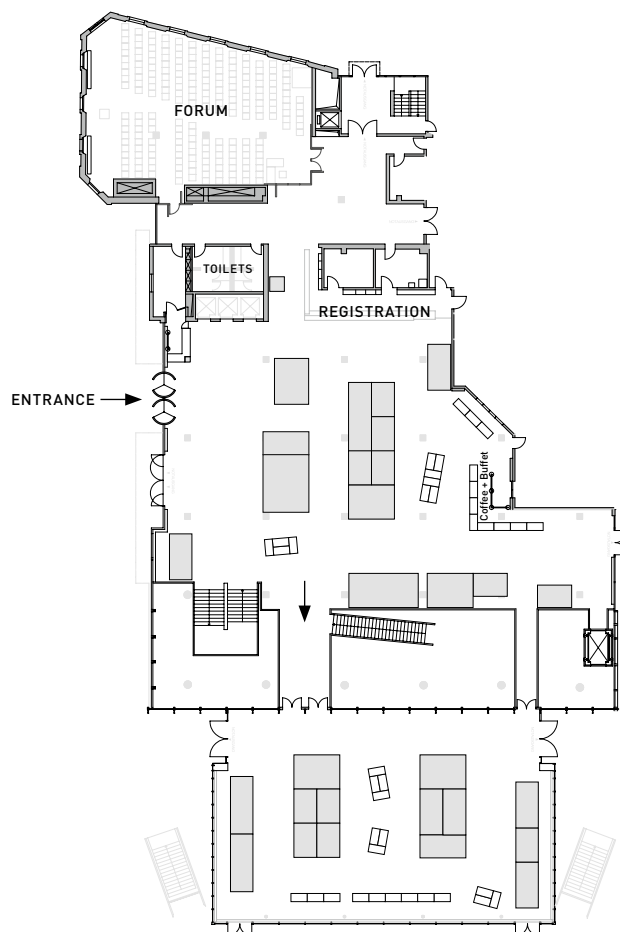
The exhibition provides the ideal presentation platform for companies that supply components for internal combustion engines or that develop and optimize engines and engine parts. These include suppliers of components, systems, and modules for diesel and gasoline engines, companies that produce measuring and testing equipment, and development service providers.

If you would like to make contact with prominent congress participants and present your products and services effectively to a selected specialist audience, then you should become involved in the congress as an exhibitor or sponsor. This industry meeting place gives you the ideal opportunity to take part in technical discussions with the participants and to make new contacts within the industry. We offer individual sponsorship and exhibition packages tailored to your specific needs. Take your pick from a variety of options.

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HOTELS

Various hotels in Baden-Baden – all centrally located – have room blocks at reduced rates for participants.

The complete list of hotels can be found on the event home page at www.ATZlive.com.
Conference participants may book rooms either online or directly at Baden-Baden Kur & Tourismus GmbH.

Your contact person at Baden-Baden Kur & Tourismus GmbH is:
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schantl@baden-baden.com

Please make your reservation by 20 January 2020 at the latest.

TERMS & CONDITIONS

Cancellations are possible until 27 January 2020. If a cancellation is made after this date, the full registration fee will be charged. Cancellations must be made in writing. The date of the postmark will determine whether the deadline has been met. If you are unable to attend, we will be happy to accept a substitute participant.

Should a speaker be unable to attend at short notice because of force majeure, illness, accident or other circumstances for which ATZlive and VDI Wissensforum cannot be held responsible, another qualified person will, wherever possible, be appointed to the exclusion of any claim for compensation. Should the event be canceled altogether, we will of course refund the registration fee.

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Passenger car engine technology, commercial vehicle engine technology or innovative fuels
€ 1,495.– plus VAT
€ 1,395.– plus VAT for VDI members

This includes the congress documents, coffee breaks, drinks, two lunches and the evening event. Participants may move between different lectures at any time.

Mode of payment

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Postal code / City

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Vat No.

Date, Signature

Registration fee

☐ € 1,495.-*

☐ 1,395.-* for VDI members

VDI membership number

* plus VAT

Please choose your main subject focus:

☐ PC engine technology

☐ CV engine technology

☐ Innovative fuels

Participation in the evening event on 18 February 2020

☐ yes ☐ no

I am interested in exhibition and sponsoring opportunities

☐ yes ☐ no

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Credit card ☐ MasterCard ☐ Visa

Card holder

Card number

Card security code

Credit card valid until

You will receive confirmation of participation upon receipt of your registration and be invoiced three weeks before the congress. You will receive your congress documents when registering at the venue. Please register one person per form only.

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