

international **engine** 6th **Congress**

Meeting Place for the Engine Community



PC



CV



Fuels

26 and 27 February 2019 | Baden-Baden | Germany
with accompanying trade exhibition

In focus: Energy systems and powertrains in 2050

Panel discussion: Energy, mobility, prosperity – it all follows physics!?

Main topics: Engine and fuel as a system

- The energy transition in the transportation sector
- Economic analyses
- Synthetic carbon-neutral fuels
- CO₂ reduction
- Real driving emissions
- Potentials of gasoline and diesel engines
- Gasoline and diesel engines with electrification

Top Speakers



Prof. Dr. Uwe Dieter Grebe, AVL List GmbH, Austria | **Dr. Ulrich Kramer**, Ford-Werke GmbH |

Prof. (apl.) Dr. Uwe Lahl, Ministry of Transport Baden-Württemberg | **Carsten Müller**,

German Federal Parliament | **Dr. Markus Müller**, DEUTZ AG | **Dr. Thomas Pauer**, Robert Bosch GmbH |

Prof. Dr. Stefan Pischinger, FEV Group GmbH and RWTH Aachen University | **Dr. Kurt-Christian Scheel**,

German Association of the Automotive Industry (VDA) | **Prof. Dr. Ulrich van Suntum**, WWU Münster |

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

international **engine** 6th congress

A WARM WELCOME TO ALL PARTICIPANTS

The International Engine Congress provided new impetus in 2018. Emotional discussions concerning internal combustion engines were brought back to a more factual, objective level. Despite conflicts of interests, it was characterized by cooperation rather than confrontation. This establishment of trust is urgently necessary if we are to achieve greater openness to technology once again.

At the 6th International Engine Congress, renowned experts from the automobile and commercial vehicle industries will be showcasing a wide range of new technical solutions. Top executives from these sectors will give insights into their company's product strategies. The Engine Congress has also developed to become the leading congress for the entire system of internal combustion engines and fuels. Efficient passenger car and commercial vehicle engines, combined with new fuels to form an integrated system, are the key technology for carbon-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 KURHAUS CASINO BADEN-BADEN

As part of the International Engine Congress, we cordially invite you to an evening dinner with engine experts at the Kurhaus Casino Baden-Baden. You can look forward to interesting conversations with your expert colleagues about the day's events and expand your network.



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The Kurhaus Casino is located just a few minutes' walk from the congress venue. It is the city's main landmark and attracts thousands of visitors every year. Enjoy the excellent food and the historic atmosphere. The Kurhaus provides the ideal setting for the evening event of the Engine Congress for discussing the day's activities with the other congress participants.

ATZlive and VDI Wissensforum cordially invite you:

Tuesday, 26 February 2019, 19:30 h



**SIMULTANEOUS INTERPRETING
GERMAN → ENGLISH**

ORGANIZERS

ATZ live

www.ATZlive.com

VDI Wissensforum

www.vdi-wissensforum.de

MEDIA PARTNER

MTZ

PARTICIPANTS

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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Dr. Thomas Wintrich
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Engine Development,
Robert Bosch GmbH

COMMERCIAL VEHICLE ENGINE TECHNOLOGY



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Director of the
Institute, VKM,
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Research &
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DEUTZ AG



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Director, Auto-
motive Research
Association of India
(ARAI, IND)



Erik Versluis
Chief Engineer
Engine Development,
DAF Trucks N.V. (NL)

INNOVATIVE FUELS



Wolfgang Maus
Managing Director,
WM Engineering &
Consulting GmbH

Chairman



Dr. David Bothe
Associate Director,
Frontier Economics
Limited



Dietmar Goericke
Managing Director,
Research
Association
for Combustion
Engines (FWV e. V.)



Prof. Dr. Kurt Kirsten
Head of Advanced
Engineering and
Innovation, APL
Automobil-Prüftechnik
Landau GmbH



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, 26 February 2019

09:15

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

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

Auditorium (Basement)

Energy pathways and the impact on propulsion



09:30

Dr. Wolfgang Warnecke, Chief Scientist Mobility,
Co-authors: Dr. Andreas Kolbeck, Dr. Karsten Wilbrand,
all Shell Global Solutions (Deutschland) GmbH,
Ajay Mehta, PhD, Shell US, USA

FVV study: Options for the defossilization of the transportation sector (100% scenarios)



10:00

Dr. Ulrich Kramer, Technical Specialist Advanced
& Alternative Fuels, Ford-Werke GmbH

Is car-driving good or evil? The economic vs. the ideological view



10:30

Prof. Dr. Ulrich van Suntum, Director of Institute
and Professor of Economics, University of Münster (WWU)

11:45

parallel sessions

11:45



PC engine technology
RDE

11:45



CV engine technology
CO₂ contribution of gas engines

11:45



Innovative fuels
Production and supply

14:45



PC engine technology
Electrification

14:45



CV engine technology
Electrification

14:45



Innovative fuels
Standardization and application

IN FOCUS: ENERGY SYSTEMS AND POWERTRAINS IN 2050

 **Moderation: Dr. Alexander Heintzel**, Editor-in-Chief ATZ | MTZ Group

Short report on the current further development of the results of the panel discussion in 2018



16:45

Wolfgang Maus,
Managing Director, WM Engineering & Consulting GmbH,
Co-authors: Dr. Wolfgang Demmelbauer-Ebner, Volkswagen AG, Rudolf Ellensohn, Liebherr Machines Bulle S.A. (CH), Carsten Müller, MdB, Jürgen Resch, DUH e. V., Dr. Otmar Scharrer, MAHLE International GmbH

PANEL DISCUSSION

Energy, mobility, prosperity – it all follows physics!?

17:00



Prof. (apl.) Dr. Uwe Lahl,
Head of Department,
Ministry of Transport
Baden-Württemberg



Carsten Müller MdB,
CDU Parliamentary Group,
German Federal Parliament



Dr. Markus Müller,
Senior Vice President Product
Development & Technical
Customer Support, DEUTZ AG



Dr. Kurt-Christian Scheel,
Managing Director, German
Association of the Automotive
Industry (VDA)



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



Moderation:
Dr. Johannes Liebl, Editor-in-Charge
ATZ | MTZ | ATZelektronik, and
Wolfgang Maus, Managing Director,
WM Engineering & Consulting GmbH

18:00

End of the first day of the congress

19:30

Evening for the engine community

at the Kurhaus Casino Baden-Baden

Wednesday, 27 February 2019



Breaks

10:00 Coffee break
12:00 Lunch
14:30 Coffee break

09:00

parallel sessions

09:00

PC engine technology
Lambda 1



09:00

CV engine technology
Paths to zero impact emissions



09:00

Innovative fuels
Application I



ENGINE AND FUEL AS A SYSTEM

Moderation: Prof. Dr. Christian Beidl, TU Darmstadt

Auditorium (Basement)

Economics of alternative fuels – how to ensure a successful market launch



10:30

Dr. David Bothe, Associate Director, Frontier Economics Ltd.

The emission-free hydrogen engine as attractive propulsion technology for commercial vehicles



11:00

Thomas Korn, CEO, KEYOU GmbH

Transportation and climate protection – a contrast?



11:30

Dr. Kurt-Christian Scheel, Managing Director, German Association of the Automotive Industry (VDA)

13:30

parallel sessions

13:30

PC engine technology
Emission control



13:30

CV engine technology
Efficiency 50%+



13:30

Innovative fuels
Application II



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

Mobile propulsion systems for a CO₂-neutral future



15:00

Prof. Dr. Stefan Pischinger, President & CEO, FEV Group GmbH, and Head of Institute for Combustion Engines (VKA), RWTH Aachen University

Cause-effect relationships between mega trends, regulations, and mobility solutions



15:30

Dr. Thomas Pauer, Senior Vice President, Robert Bosch GmbH

Auditorium (Basement)

Propulsion options and their impact on the energy pathways



16:00

Prof. Dr. Uwe Dieter Grebe, Executive Vice President Global Business Development, Sales & International Operations, Co-author: Martin Rothbart, both AVL List GmbH, Austria

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 and Editor-in-Charge ATZ | MTZ | ATZelektronik, and **Anne Bieler-Brockmann**, Project Leader, VDI Wissensforum GmbH

Presentations

parallel sessions

Tuesday,
26 February 2019



Breaks

11:00 Coffee break

13:15 Lunch

16:15 Coffee break

PC engine technology

Auditorium (Basement)



RDE

Moderation: Dr. Nikolai Ardey, AUDI AG

11:45

The effects of RDE and WLTP on real-world emissions performance and the consequences for Euro 6, the industry, and consumers

Nick Molden, Chief Executive Officer, Emissions Analytics Ltd, UK

12:15

RDE cycle generation – a statistical approach to cut down testing effort and provide a secure base to approve RDE legislation compliance

Johannes Claßen, Research Associate, Institute for Combustion Engines (VKA), RWTH Aachen University, Co-authors: Dr. Norbert W. Alt, Matthieu Doucet, Dr. Michael Görgen, all FEV Europe GmbH

12:45

Holistic evaluation methodology for powertrains in RDE scenarios

Christian Lensch-Franzen, Head of Engineering, Co-authors: Tobias Mink, Martin Schäfer, Alexander Ebel, all APL Automobil-Prüftechnik Landau GmbH



ELECTRIFICATION

Moderation: Dr. Otmar Scharrer, MAHLE International GmbH

14:45

Consistent hybrid powertrain behavior – the key to achieving customer acceptance

Sebastian Barth, Senior Project Engineer, Co-authors: Derya Karabulut, Dr. Michael Fischer, all Honda R+D Europe GmbH

15:15

The ICE in the electrified powertrain – modular approach within a common platform between cost and CO₂ optimization

Dr. Wolfgang Schöffmann, Head of Technology Base Powertrain, Co-authors: Dr. Helfried Sorger, Gerald Teuschl, Dr. Günter Fraidl, all AVL List GmbH, Austria

15:45

eTurbo – a key technology to achieve performance and energy efficiency while respecting Lambda 1

Peter Davies, Senior Director Powertrain, Co-authors: Denis Jeckel, Nathaniel Bontemps, Daniele Zecchetti, all Garrett, France/Germany

CV engine technology

Forum (Ground Floor)



CO₂ CONTRIBUTION OF GAS ENGINES

Moderation: Prof. Dr. Christian Beidl, TU Darmstadt

11:45

Opportunities for CO₂ reduction: an assessment of high-pressure direct-injection natural-gas technology

Sarah Flick, PhD, Corporate Development Manager, Westport Fuel Systems, Canada

12:15

How to address durability-related challenges in commercial vehicle gas engines

Johannes Gell, Project Manager Mechanical Development & Validation, Co-authors: Anton Arnberger, Gernot Hasenbichler, all AVL List GmbH, Austria, Johannes Andersen, AVL MTC AB, Sweden

12:45

New engine technologies in India

Dr. Seshu Bhagavathula, Chief Technology Officer, Co-author: Sadagopan Krishnan, both Ashok Leyland Technical Centre, India



ELECTRIFICATION

Moderation: Roland Nipp, ISUZU MOTORS Germany GmbH

14:45

Impacts of powertrain hybridization on engine exhaust behavior of heavy-duty vehicles

Mikula Thiem, Research Assistant, Co-authors: Nicolas Hummel, Prof. Dr. Christian Beidl, all Institute for Internal Combustion Engines and Powertrain Systems (VKM), TU Darmstadt

15:15

The CeTrax central electric drive – a holistic system approach for commercial vehicles from ZF

Dr. Jochen Witzig, Director Product Center Transmission Systems for Buses, Commercial Vehicle Technology, ZF Friedrichshafen AG

15:45

Dedicated diesel range extender engine for medium-duty delivery truck

Dr. Joschka Schaub, Deputy Department Manager Diesel Powertrain Concept, Co-authors: Matthias Kötter, Markus Ehrly, Stefan Wedowski, all FEV Europe GmbH

Innovative fuels

Kongress-Saal I (1st Floor)



PRODUCTION AND SUPPLY

Moderation: Wolfgang Maus, WM Engineering & Consulting GmbH

11:45

Power-based fuels – global concept and local implementation

Stephan Stollenwerk, Manager Energy System and Storage, Co-author: Dr. Jens Kanacher, both innogy SE

12:15

Hydrogen as the basis for mobility with a low carbon footprint: from a fundamental, technological, economic, and ecological perspective

Dr. Otto Machhammer, Consultant Chemical Technology, Energy and Water, M+ machhammer consulting, Co-author: Dr. Hans-Jürgen Maaß, New Process Plant Concepts (NPPC)

12:45

Fuels from CO₂: why and how?

Prof. Dr. Robert Schlögl, Director, Fritz-Haber-Institut of the Max-Planck-Gesellschaft



STANDARDIZATION AND APPLICATION

Moderation: Dr. Werner Willems, Ford Forschungszentrum Aachen GmbH

14:45

Fuel technologies for low emission mobility

Dr. Norbert Neumann, Manager Technology Deployment Europe, BP Europa SE

15:15

Standardization of fuels and its meaning for the realisation concerning future fuels

Dr. Jürgen Fischer, Managing Director, DIN Standardization Committee for Petroleum and Fuels (FAM)

15:45

System approach for future diesel and OME blends scenario

Dr. Gerd Rösel, Head of Advanced System Engineering BU ES & Head of Innovation BU HEV, Co-authors: Dr. Giovanni Avolio, Dr. Oliver Kastner, all Continental Automotive GmbH

Presentations

parallel sessions

Wednesday,
27 February 2019



Breaks

10:00 Coffee break

12:00 Lunch

14:30 Coffee break

PC engine technology

Auditorium (Basement)



LAMBDA 1

Moderation: Dr. Norbert Alt, FEV Europe GmbH

09:00

Water injection and lambda 1 experiences

Jaguar Land Rover Ltd., UK (oral confirmation)

09:30

Water injection for gasoline engines – potentials and challenges

Dr. Ingo Hermann, Project Leader Advanced Engineering,
Co-authors: Martin Paroll, Dr. Claus Glahn,
Dr. Werner Gumprich, all Opel Automobile GmbH



EMISSION CONTROL

Moderation: Dr. Thomas Wintrich, Robert Bosch GmbH

13:30

Combined application of 3D-CFD and high-speed videoendoscopy on a turbocharged GDI engine

Dr. Markus Bertsch, Development Engineer Combustion
System, Co-authors: Michael Lippisch, Dr. Wolfram Wiese,
Dr. Erik Schünemann, all Robert Bosch GmbH

14:00

Optimizing gasoline particulate filter technologies to improve filtration performance

David Waters, Product Manager,
Co-author: Henry Jahnke, both NGK Europe GmbH



CV engine technology

Forum (Ground Floor)



PATHS TO ZERO IMPACT EMISSIONS

Moderation: Rolf Dreisbach, AVL List GmbH

09:00

Modular heavy-duty exhaust gas treatment tool box system with autarcic thermal management to realize high NO_x conversion especially in urban driving conditions

Dr. Christoph Menne, Managing Director, Co-authors: Klaus Schrewe, Dr. Bernd Maurer, Jens Schlencker, all HJS Emission Technology GmbH & Co. KG

09:30

Road to the sustainable powertrain

Peter Krähenbühl, General Manager, FPT Motorenforschung AG, Switzerland



EFFICIENCY 50%+

Moderation: Thomas Nickels, MAN Truck & Bus AG

13:30

Assessment of factors influencing the wall heat transfer with regard to increasing efficiency and compliance with future CO₂ limits for commercial vehicles

Christian Hennes, PhD Student, Co-authors: Dr. Peter Kožuch, Jürgen Lehmann, all Daimler AG, Prof. Dr. Thomas Koch, Institute of Reciprocating Engines (IFKM), Karlsruhe Institute of Technology (KIT)

14:00

Influence of engine cooling concepts on fuel consumption and performance – simulation and experimental results

Dr. Alexander Schydlo, Mechanical Engineering / Thermodynamics, Co-authors: Robert Martens, Dominik Renner, Thomas Malischewski, all MAN Truck & Bus AG

Innovative fuels

Kongress-Saal I (1st Floor)



APPLICATION I

Moderation: Prof. Dr. Kurt Kirsten, APL Automobil-Prüftechnik Landau GmbH

09:00

Operation of a diesel engine with alcohol manifold injection

Aleksander Damyanov, Scientific Project Assistant, Co-author: Prof. Dr. Peter Hofmann, both Institute for Powertrains and Automotive Technology (IFA), TU Vienna, Austria

09:30

Flex-fuel capability via advanced digital combustion rate shaping and airpath control

Daniel Neumann, Research Associate, Institute for Combustion Engines (VKA), RWTH Aachen University, Co-authors: Christian Frenken, Paul Muthyala, Christian Jörg, all FEV Europe GmbH



APPLICATION II

Moderation: Dietmar Goericke, Research Association for Combustion Engines (FVV e. V.)

13:30

Combustion process optimization for oxymethylene ether (OME) fuels for different diesel applications

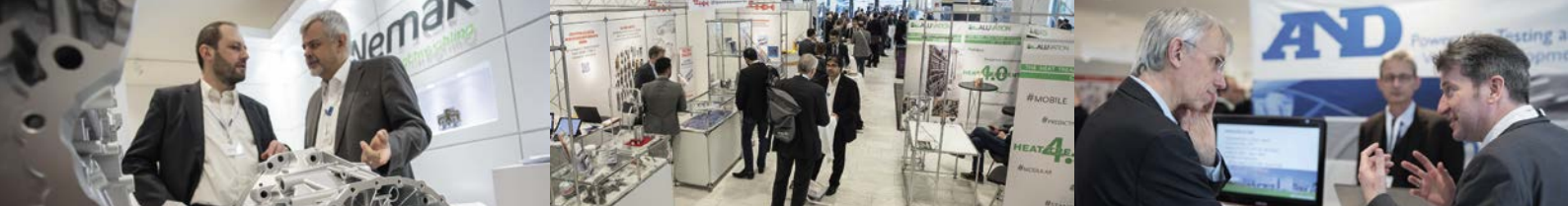
Kai Gaukel, Research Assistant, Co-author: Prof. Dr. Georg Wachtmeister, both Institute of Internal Combustion Engines, TU Munich, and **Marcel Pannwitz**, Development Engineer, Co-author: Torsten Tietze, both IAV GmbH

14:00

Analysis of two engine configurations using OME as a potential CO₂ neutral and low emission diesel substitute

Markus Münz, Research Assistant, Co-authors: Alexander Mokros, Prof. Dr. Christian Beidl, all Institute for Internal Combustion Engines and Powertrain Systems (VKM), TU Darmstadt





EXHIBITION AND SPONSORSHIP

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- ELTRO GmbH
- Emission Analytics Ltd.
- FEV Europe GmbH
- hollomet GmbH
- IHI Hauzer Techno Coating BV
- Ionbond Netherlands BV
- KST-Motorenversuch GmbH & Co. KG
- Schaeffler Engineering GmbH
- Schaeffler Technologies AG & Co. KG
- SONCEBOZ Automotive SA
- Thermamax Hochtemperaturdämmungen GmbH
- Thomas Magnete GmbH
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ACCOMPANYING EXHIBITION

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.

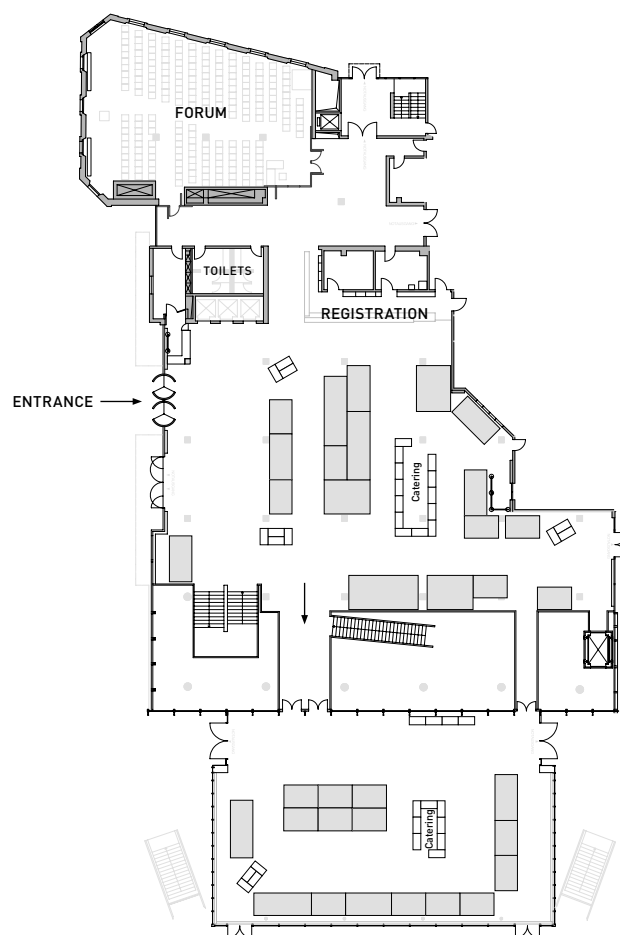
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The logo for Thomas, featuring a stylized green icon of three horizontal bars to the left of the word 'Thomas' in a bold, green, sans-serif font.



We are happy to inform you about the various presentation opportunities available:
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VENUE

Kongresshaus Baden-Baden
Augustaplatz 10 | 76530 Baden-Baden | Germany
Phone +49 7221 304-0
www.kongresshaus.de/en

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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Phone +49 7221 275-271
ey@baden-baden.com

Please make your reservation by 25 January 2019 at the latest.

TERMS & CONDITIONS

Cancellations are possible until 4 February 2019. 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 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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REGISTRATION FEE

Passenger car engine technology, commercial vehicle engine technology or innovative fuels
€ 1,450.– plus VAT
€ 1,350.– 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

By bank transfer after receipt of an invoice or by credit card (MasterCard, Visa).
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Acad. title

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Department

Function

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Postal code / City

Country

Phone, Fax

E-Mail

Invoice address (if different from above address)

Vat No.

Date, Signature

Registration fee

☐ € 1,450.-*

☐ 1,350.-* 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 26 February 2019

☐ yes ☐ no

I am interested in exhibition and sponsoring opportunities

☐ yes ☐ no

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Bank transfer after invoice ☐

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.

CS001348

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ATZ live