

international **engine** 8th **Congress**

Meeting Place for the Engine Community



PC



CV



Fuels

23 and 24 February 2021 | Baden-Baden | Germany
with accompanying trade exhibition

You can also
take part
virtually via our
live stream



Main topics

- Sustainable mobility: complete LCA
- Internal combustion engines and fuels as a complete system: CO₂ reduction, emissions control, electrification
- Climate-friendly internal combustion engines
- Increasing efficiency in products and processes
- Use of hydrogen and synthetic fuels

Panel discussion

CO₂ budget – the role of engines and fuels in sustainable mobility

Top speakers



Dr. Franz Bäumel, AUDI AG | **Prof. Dr. Christian Beidl**, TU Darmstadt | **Tobias Block**, German Association of the Automotive Industry (VDA), Belgium | **Dr. Simon Edwards**, Ricardo GmbH | **Prof. Dr. Helmut Eichlseder**, TU Graz, Austria | **Prof. Dr. Thomas Koch**, Karlsruhe Institute of Technology (KIT) | **Dr. Martin Stahl**, Stahl Automotive Consulting GmbH & Co. KG | **Daniel Weißbach**, Institute for Solid-State Nuclear Physics | **Dr. Zhixin Wu**, China Automotive Technology & Research Center

international engine 8th congress

A WARM WELCOME TO ALL PARTICIPANTS

Covid-19 has changed our world and our lives at a rate that we never thought possible. Our sensitivity towards our fellow human beings, the natural world, and our environment has increased. Our society must focus more than ever before on meeting the Paris climate protection targets.

National and international markets require an approach that is open to all technologies in order to fulfill mobility and transport needs. Electrified powertrains and efficient passenger car and commercial vehicle engines together with new fuels as part of an integrated system are key technologies for CO₂-neutral individual mobility with low emissions.

For that reason, in 2021 the International Engine Congress, with its globally unique event format, will continue its systematic examination of the complete system of internal combustion engines and innovative fuels that has been a trademark for six years now.

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
- The congress is a great opportunity to “network” – the evening event for the engine community offers stimulating discussions in an informal 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

THE INTERNATIONAL ENGINE CONGRESS AS A HYBRID EVENT



You have the choice:
attend the congress in person or take part via our live stream

The streaming package includes **all keynote, impulse, and plenary presentations as well as the panel discussion and all presentations of the parallel sessions “passenger car engine technology”, “commercial vehicle engine technology” and “innovative fuels”.**

The event app with the live stream offers you Q&A functions, 1:1 video chats with participants, exhibitors, and speakers, as well as live opinion surveys, your personal program overview, a virtual exhibition, and other useful functions.

You can find detailed information on our website.



ENGINE COMMUNITY EVENING

As every year, ATZlive and VDI Wissensforum invite you to round off the first day of the International Engine Congress with a get-together. You can look forward to interesting conversations with colleagues over dinner and have the opportunity to expand your network.

Tuesday, 23 February 2021, 19:00 h

PROGRAM ADVISORY BOARDS



PASSENGER CAR ENGINE TECHNOLOGY



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Editor-in-Charge
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COMMERCIAL VEHICLE ENGINE TECHNOLOGY



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Research
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for Combustion
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Head of Advanced
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Innovation, APL
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technik Landau GmbH



Prof. Dr. Thomas Koch
Director of the
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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,
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zentrum Aachen GmbH

ORGANIZERS

ATZ live

www.ATZlive.com



Wissensforum

www.vdi-wissensforum.de

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.

MEDIA PARTNER

MTZ



Tuesday, 23 February 2021

08:45 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

Development of the political frameworks of renewable fuels



09:00 Tobias Block, Coordinator of Renewable Fuels, German Association of the Automotive Industry (VDA), Belgium

Engine efficiency – a system view from the perspective of real operation



10:00 Prof. Dr. Christian Beidl, Director of the Institute, Institute for Internal Combustion Engines and Powertrain Systems (VKM), TU Darmstadt

The CO₂ remaining budget



09:30 Prof. Dr. Thomas Koch, Director of the Institute, Institute for Piston Machines (IFKM), Karlsruhe Institute of Technology (KIT)

11:15 PC engine technology
Electrification



14:30 PC engine technology
Emissions control potentials



11:15 CV engine technology
Hydrogen engines



14:30 CV engine technology
New technologies



11:15 Innovative fuels
Holistic ecobalances, LCA, and use of PtX energy



14:30 Innovative fuels
CO₂ balances, hydrogen, and PtL



IN FOCUS: SUSTAINABLE MOBILITY

Moderation: Dr. Alexander Heintzel, Editor-in-Chief ATZ | MTZ Group,
Prof. Dr. Christian Beidl, Director of the Institute, Institute for Internal Combustion Engines and Powertrain Systems (VKM), TU Darmstadt

The importance of reFuels for climate protection in transportation and market opportunities if the right strategy is pursued



16:30 Prof. (apl.) Dr. Uwe Lahl, Head of Department, Ministry of Transport Baden-Württemberg

eFuel – it is possible!



16:45 Karl Dums, Director Advanced Engineering Powertrain & Powertrain Strategy, Dr. Ing. h.c. F. Porsche AG

PANEL DISCUSSION CO₂ budget – the role of engines and fuels in sustainable mobility



17:00 Rolf Heinrich Dreisbach, Executive Vice President, AVL List GmbH, Austria



Christian Enderle, Vice President Powertrain Development, Dr. Ing. h.c. F. Porsche AG



Prof. Dr. Thomas Koch, Director of the Institute, IFKM, Karlsruhe Institute of Technology (KIT)



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



Nicole Steiger, Managing Director, JSC Automotive GmbH

19:00 Engine community evening

18:15 End of the first day of the congress



10:30 Coffee break
12:45 Lunch
16:00 Coffee break

Wednesday, 24 February 2021

08:30

parallel sessions

08:30

PC engine technology
Increasing internal combustion engine efficiency



08:30

CV engine technology
Electrification / emissions control



08:30

Innovative fuels
Energy for mobility



PLENARY LECTURES

Moderation: Wolfgang Maus, WM Engineering & Consulting GmbH

China automotive fuel economy standards and fuel efficiency promotion policies



10:15 Dr. Zhixin Wu, Vice President, China Automotive Technology & Research Center

Refining the vision for a 2035 heavy-duty engines portfolio



10:45 Dr. Simon Edwards, Global Director, Technology, Ricardo GmbH, Co-authors: Andrew Skipton-Carter, Andrew Auld, both Ricardo UK Ltd., UK, Nikolas Hill, Ricardo Energy & Environment, UK

Zero Impact – objective and significance for vehicle propulsion systems and the air quality situation



11:15 Prof. Dr. Helmut Eichseder, Director of the Institute, Institute of Internal Combustion Engines and Thermodynamics (IVT), Graz University of Technology, Austria, Co-author: Prof. Dr. Christian Beidl, Institute for Internal Combustion Engines and Powertrain Systems (VKM), TU Darmstadt

13:30

parallel sessions

13:30

PC engine technology
Increasing efficiency in development processes



13:30

CV engine technology
Heavy duty 2030



13:30

Innovative fuels
Sustainable internal combustion engines



KEYNOTE LECTURES II

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

Underlying conditions for future combustion engines from the perspective of an OEM



15:00 Dr. Franz Bäuml, Head of product line A1 / A3 / TT, Co-authors: Dr. Christian Brenneisen, both AUDI AG, Dr. Ekkehard Pott, Lars Hentschel, both Volkswagen AG

Application of LCA (Life Cycle Analysis) methods on efficiency analysis of vehicle propulsion systems



16:00 Daniel Weißbach, Chief Technical Officer, Institute for Solid-State Nuclear Physics

16:30

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



09:30 Coffee break
11:45 Lunch
14:30 Coffee break

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

to the parallel sessions



Presentations

parallel sessions

Tuesday,
23 February 2021



10:30 Coffee break
12:45 Lunch
16:00 Coffee break

PC engine technology

Kongress-Saal I (1st Floor)



ELECTRIFICATION

Moderation: Dr. Norbert Alt, FEV Europe GmbH

11:15

Customer first! – the key to achieving customers’ acceptance for connected powertrains

Sebastian Barth, Senior Project Engineer, Co-authors: Michael Fischer, both Honda R&D Europe (Deutschland) GmbH, Pascal Schlatter, Institute for Internal Combustion Engines and Powertrain Systems (VKM), TU Darmstadt

11:45

The combustion engine in hybrid powertrains – highly efficient and cost optimized derived from modular platforms

Dr. Wolfgang Schöffmann, Head of Technology Base Powertrain, Co-authors: Gerald Teuschl, Dr. Raimund Ellinger, Michael Howlett, Dr. Paul Kapus, Christoph Sams, Karl Weihrach, all AVL List GmbH, Austria

12:15

Life cycle assessment of an internal combustion engine vehicle using renewable electricity for fuel and vehicle production

Dr. André Sternberg, Scientist, Co-authors: Christoph Hank, Dr. Achim Schaadt, all Fraunhofer Institute for Solar Energy Systems (ISE)



EMISSIONS CONTROL POTENTIALS

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

14:30

Potential of variable valve train systems to overcome the NO_x/CO₂ trade-off in emission legislation – a comparison for diesel PC and CV applications

Dr. Michael Elicker, Manager System Engineering Heavy Duty, Co-authors: Andreas Möller, both Schaeffler Technologies AG & Co. KG, Dr. Maximilian Brauer, René Pohlke, both IAV GmbH

15:00

Holistic hybrid RDE calibration methodology for EU7

Dr. Michael Görgen, Department Manager Emission Calibration, Co-authors: Dr. Martin Nijs, both FEV Europe GmbH, Frank Dorscheidt, Johannes Claßen, both Institute for Combustion Engines (VKA), RWTH Aachen University

15:30

Application of a systematic development methodology for post-EU6 engine calibration under RDE boundary conditions

Henning Nies, Research Assistant, Co-authors: Prof. Dr. Christian Beidl, both Institute for Internal Combustion Engines and Powertrain Systems (VKM), TU Darmstadt, Holger Hüners, Deniz Serifsoy, both ISUZU MOTORS Germany GmbH

CV engine technology

Forum (EG)



HYDROGEN ENGINES

Moderation: Dr. Andreas Broda, MAN Truck & Bus SE

11:15

With lean-burn concept and turbocharging to an efficient hydrogen engine

Thomas Korn, CEO & Co-Founder, KEYOU GmbH

11:45

Potentials and challenges of hydrogen combustion system development as a sustainable fuel for commercial vehicles

Dr. Reza Rezaei, Manager, Co-authors: Marc Sens, Michael Riess, Dr. Christoph Bertram, all IAV GmbH

12:15

Combustion system development for hydrogen fuelled heavy duty internal combustion engines

Dr. Lukas Virnich, Senior Project Manager, Co-authors: Bernd Lindemann, Dr. Martin Mütter, Dr. José Geiger, all FEV Europe GmbH, Andreas Kremer, Robert Bosch GmbH



NEW TECHNOLOGIES

Moderation: Jürgen Lehmann, Daimler Truck AG

14:30

Jet ignition as an enabling technology for stable, highly dilute hydrogen combustion in off-road and heavy-duty engines

Michael Bunce, Head of Research, Co-authors: Dr. Nathan Peters, both MAHLE Powertrain LLC, USA, Dr. Bouzid Seba, Bakir Puran, both Liebherr Machines Bulle SA, Switzerland

15:00

Cylinder deactivation as effective means for exhaust thermal management and CO₂ reduction – test results on a US 13L HDDE

Robb Janak, Director New Technology, Jacobs Vehicle Systems, Inc., USA

15:30

A new class of AI-based engine models

Dr. Dominik Rether, Project Lead UserCylinder, Co-authors: Dr. Michael Grill, both Research Institute of Automotive Engineering and Vehicle Engines Stuttgart (FKFS), Prof. Dr. Michael Bargende, Institute of Automotive Engineering (IFS), University of Stuttgart

Innovative fuels

Auditorium (Basement)



HOLISTIC ECOBALANCES, LCA, AND USE OF PTX ENERGY

Moderation: Wolfgang Maus, WM Engineering & Consulting GmbH

11:15

Precise stock-taking – ensuring an efficient usage of the remaining CO₂ budget in mobility

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

11:45

LCA – a further requirement for engineers

Dr. Olaf Toedter, Director New Technologies & Ignition Systems, Co-authors: Philipp Weber, Prof. Dr. Thomas Koch, all Institute for Piston Machines (IFKM), Karlsruhe Institute of Technology (KIT)

12:15

Energy carriers for transport cost-effectively produced overseas and transported to Germany

Dr. Otto Machhammer, Consultant, M+ machhammer consulting



CO₂ BALANCES, HYDROGEN, AND PTL

Moderation: Dr. David Bothe, Frontier Economics Ltd.

14:30

Climate protection in the transport sector

Prof. Dr. Dr. Ulrich Schmidt, Head of Research Center, Institute for the World Economy (IfW Kiel)

15:00

“Green” hydrogen for ground-based heavy duty long-distance transportation – a techno-economic analysis of various provision chains

Prof. Dr. Martin Kaltschmitt, Head of Institute, Co-authors: Lucas Sens, Dr. Ulf Neuling, all Institute of Environmental Technology and Energy Economics (IUE), Hamburg University of Technology

15:30

The hydrogen engine for commercial vehicles: bridging technology or long-term solution?

Anton Arnberger, Technical Expert Commercial Gas Engine, Co-authors: Bernhard Raser, both AVL List GmbH, Austria, Prof. Dr. Helmut Eichlseder, Dr. Peter Grabner, both Institute of Internal Combustion Engines and Thermodynamics (IVT), Graz University of Technology, Austria

Presentations

parallel sessions

**Wednesday,
24 February 2021**



09:30 Coffee break
11:45 Lunch
14:30 Coffee break

PC engine technology

Kongress-Saal I (1st Floor)



INCREASING INTERNAL COMBUSTION ENGINE EFFICIENCY

Moderation: Dr. Franz Bäuml, AUDI AG

08:30

Charge-air cooling of high performance engines in an ejector refrigeration cycle

Tobias Beran, PhD Student, Co-authors: Jan Gärtner, both Mercedes-Benz AG, Prof. Dr. Thomas Koch, Institute for Piston Machines (IFKM), Karlsruhe Institute of Technology (KIT)

09:00

Ignition system for alternative fuels – robust ignition, minimized spark plug wear and combustion process diagnostics

Dr. Jakob Ängeby, Director Research, SEM AB, Sweden



INCREASING EFFICIENCY IN DEVELOPMENT PROCESSES

Moderation: Christian Lensch-Franzen, APL Automobil-Prüftechnik Landau GmbH

13:30

Model-based hybrid calibration – benefits and limitations

Gerald Teuschl, Senior Product Manager Electrification, Co-authors: Christian Jung, Dr. Raimund Ellinger, Marco Decker, all AVL List GmbH, Austria

14:00

AI-driven gasoline direct injection development: a knowledge-discovery framework for comprehensible evaluations of complex physical phenomena

Massimiliano Botticelli, Ph.D. Candidate, Co-authors: Robin Hellmann, Dr. Paul Jochmann, Dr. Karl Georg Stapf, Dr. Erik Schünemann, all Robert Bosch GmbH

CV engine technology

Forum (Ground Floor)



ELECTRIFICATION / EMISSIONS CONTROL

Moderation: Dr. Markus Schwaderlapp, DEUTZ AG

08:30

Dedicated engine and exhaust aftertreatment concepts for strongly electrified powertrains in the light commercial vehicle segment

Dr. Joschka Schaub, Department Manager Powertrain Concepts and Controls, Co-authors: Dr. Markus Ehrly, Dr. Martin Pieper, all FEV Europe GmbH, Giuseppe Sammito, FEV Italia s.r.l., Italy

09:00

Thermal management on demand; the exhaust aftertreatment solution for future heavy duty applications

Rolf Brück, Managing Director, Co-authors: Dr. Manuel Presti, both Vitesco Technologies Emitec GmbH, Mathias Keck, Manuel Faiss, both BIN Boysen Innovationszentrum Nagold GmbH & Co. KG



HEAVY DUTY 2030

Moderation: Prof. Dr. Christian Beidl, TU Darmstadt

13:30

Heavy-duty engine 2030: which concepts can contribute to achieving the CO₂ targets for commercial vehicles?

Dr. Hubertus Ulmer, Manager eMobility Commercial Vehicles, Co-authors: Dr. Reza Rezaei, Tom George, Dr. Jörn Seebode, all IAV GmbH

14:00

50% efficiency on the internal combustion engine – status and measurement results

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

Innovative fuels

Auditorium (Basement)



ENERGY FOR MOBILITY

Moderation: Wolfgang Maus, WM Engineering & Consulting GmbH

08:30

Energy carriers for future mobility

Dr. Martin Härtl, Chief Engineer, Co-authors: Sebastian Blochum, Christoph Kraus, Prof. Dr. Georg Wachtmeister, all Chair of Internal Combustion Engines (LVK), TU Munich

09:00

E-fuels – gamechanger of mobility

Elmar Kühn, CEO, UNITI – German Association of Small- and Medium-Sized Mineral Oil Companies



SUSTAINABLE INTERNAL COMBUSTION ENGINES

Moderation: Dr. Werner Willems, Ford Forschungszentrum Aachen GmbH

13:30

New initiatives for industry-academia collaboration for ICE research in Japan – Zero Emission Mobility Power Source Consortium (ZEM Conso)

Dr. Mitsuharu Oguma, Principal Research Manager, National Institute of Advanced Industrial Science and Technology (AIST), Co-author: Prof. Takuji Ishiyama, Graduate School of Energy Science, Energy Conversion Science Department, Kyoto University, Japan

14:00

Operation of OME in a single cylinder research engine and a series engine – an analysis of efficiency and ultra-low emissions by an OME-specific application

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





EXHIBITION AND SPONSORSHIP

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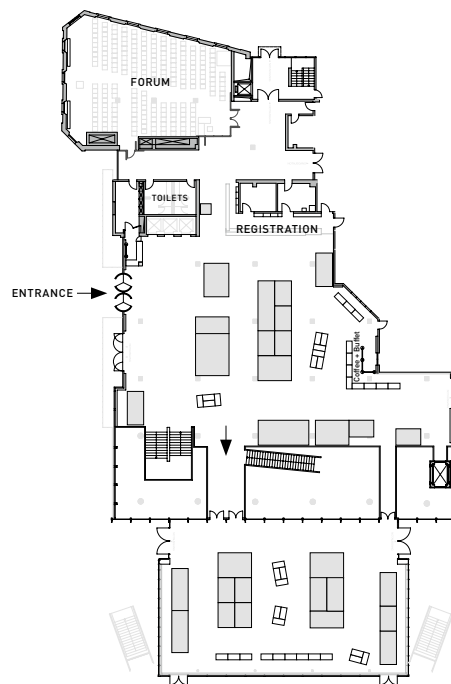
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ACCOMPANYING EXHIBITION

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. In addition to each exhibition package, every exhibitor will be given a virtual stand in our app. This will enable you not only to upload documents and to chat, but also to hold 1:1 video calls with all participants. We will also be happy to design individual sponsoring and exhibition packages for you in accordance with your specific wishes and requirements. Take your pick from a variety of options.



REGISTRATION FEE

Participation on site

Keynote, impulse, and plenary presentations, panel discussion as well as passenger car engine technology, commercial vehicle engine technology or innovative fuels
€ 1,495.– plus VAT
€ 1,395.– plus VAT for VDI members

Participation via live stream

Keynote, impulse, and plenary presentations, panel discussion as well as passenger car engine technology, commercial vehicle engine technology and innovative fuels
€ 795.– plus VAT
€ 695.– plus VAT for VDI members

Both participant packages include all submitted conference documents and the use of the event app. If you are attending the conference in person, the conference fee also includes catering during the coffee and lunch breaks and the evening event.

Mode of payment

By bank transfer after receipt of an invoice or by credit card (MasterCard, Visa).
Participants with a billing address outside Germany, Austria and Switzerland are requested to pay by credit card.

DATE

23 and 24 February 2021

LANGUAGES USED IN THE PRESENTATIONS

German and English with simultaneous interpreting
(German – English / English – German)

INFORMATION ON CORONAVIRUS SAFETY



The health and safety of our customers and employees is our top priority. We have therefore developed a safety concept to ensure protection against the risk of coronavirus. We will closely observe official national and regional regulations and will, of course, comply with current coronavirus protection measures. This may in some circumstances result in some restrictions for participants. For example, it may not be possible to freely move between parallel sessions or the maximum capacity of the conference rooms may be limited.

Online Registration and Further Information:

www.enginecongress.com



VENUE

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Augustaplatz 10
76530 Baden-Baden | Germany
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www.kongresshaus.de

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 website:
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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Please make your reservation by 22 January 2021 at the latest.

If you are prevented from attending the conference in person for health reasons or due to travel restrictions, you have the opportunity this year to participate in the conference virtually via our live stream. The event app offers you Q&A functions, 1:1 video chats with participants, exhibitors, and speakers, live opinion surveys, your personal program overview, a virtual exhibition, and other useful functions.



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international **engine** 8th **Congress**

Meeting Place for the Engine Community



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Fuels

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and Online Registration:**



www.enginecongress.com

8th International Engine Congress 2021
23 and 24 February 2021 | Baden-Baden | Germany or virtually via live stream

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// Spotlight on Powertrain and Vehicle Engineering //

ATZlive organizes its high-caliber conferences for vehicle and engine specialists together with key representatives from research and industry to ensure that they are tailor-made to the needs of the participants and address the very latest issues. Our close collaboration with the editorial teams of our specialist magazines ATZ and MTZ keeps us fully up-to-date on the latest topics and trends on the market.

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ATZ live

www.ATZlive.com

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// We develop engineers //

Our passion: sharing knowledge and skills covering almost all technological disciplines. Your added value: a diverse and comprehensive range of further education options. We draw on the extensive expertise of the VDI (Association of German Engineers) and a comprehensive network of experts. At our events, we put the emphasis on practical relevance. Other qualifications, such as management and leadership knowledge, social skills, business administration and law, round off our range of further education programs. Dedicated staff with extensive experience and expertise ensure that the events are staged successfully. About 20 members of our staff are themselves engineers and can provide a high level of technological knowledge.

VDI Wissensforum

www.vdi-wissensforum.de/en