Engine 12th Cungress

Meeting Place for the Powertrain and Sustainable Fuels Community



25 and 26 February 2025 | Baden-Baden | Germany

with accompanying trade exhibition

Main topics

- Carbon-neutral IC engines from a global perspective
- CO₂ recycling as a key topic for reFuels
- reFuels from an investor's perspective
- Further development potentials and sustainability for the IC engine
- Hydrogen and other sustainable energy sources
- Legal and technological differences in the markets

Panel discussion

The new market-focused role of the IC engine in climate protection!

Top speakers



Prof. Dr. Frank Atzler, TU Dresden | Dr. Thomas Becker, BMW AG | Dr. David Bothe, Frontier Economics Ltd. | Prof. Dr. André Casal Kulzer, University of Stuttgart | Ralf Diemer, eFuel Alliance e.V. | Michael Fleiss, Aurobay, Sweden | Konstantin K. Kriegelsteiner, Isuzu Motors Ltd., Japan | Alain Mathuren, FuelsEurope, Belgium | Matthias Zink, Schaeffler AG and CLEPA, Belgium

Further top speakers to be confirmed

ATZ live

You can also take part virtually via our

virtually via our

www.vdiconference.com/01TA810025

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A WARM WELCOME TO ALL PARTICIPANTS

Geopolitical changes have greatly unsettled the sales markets. In Europe, this insecurity is being further exacerbated by a unilateral political and industrial position opposing the longer-term use of internal combustion engines. Pressure on governments is increasing. There is a growing demand for technological diversity and for more competition in energy sources and converters, both globally and in Europe. Will the hope of a quick adaptation of the legal framework to the real conditions of the market, with its cross-sector requirements, become a reality?

In Asian countries in particular, politics, industry, and science are focusing on innovations for energy production and its use in mobility that are open to different technologies. Only in this way can the defossilization of existing vehicle fleets, which is necessary if we want to achieve carbon-neutral mobility, take place quickly and in an economically acceptable manner. A key role is played by ensuring that energy, raw material, supply, and production chains are circular.

In this changing context, the congress will examine the future role of the internal combustion engine and its non-fossil fuels from a global perspective with leading experts.

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

We look forward to your participation.

On behalf of the program advisory boards



Prof. Dr. Pater Gutzmer Scientific Director of the Congress, Editor-in-Charge ATZ | MTZ Group

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 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 "sustainable fuels & energy"

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The digital event platform 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 AT THE KURHAUS CASINO BADEN-BADEN

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

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 com-

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-

bustion engine or the advancement of procedures and systems to

SIMULTANEOUS INTERPRETING

GERMAN → ENGLISH

Tuesday, 25 February 2025, 18:30 h

PARTICIPANTS

highway applications.







MEDIA PARTNER MTZ

PROGRAM ADVISORY BOARDS

PASSENGER CAR ENGINE TECHNOLOGY





Landau GmbH

Dr. Christoph Menne Executive Vice President, FEV Europe GmbH

Dr. Christian

ment In-line Gasoline

Engines & Simulation

Brenneisen



Dr. Michael Winkler Head of Powertrain, Hyundai Motor Europe Technical Center GmbH

COMMERCIAL VEHICLE ENGINE TECHNOLOGY



Dr. Andreas Broda Vice President / Head of Fuel Based Propulsion Systems, MAN Truck & Bus SE



Bernhard Raser Vice President Commercial Vehicles, AVL List GmbH [A]

Dr. Markus Schwaderlapp SVP Technology, DEUTZ AG

SUSTAINABLE FUELS & ENERGY



Manager eFuels. Porsche AG

Prof. Dr. **Thomas Koch** Institutsleiter. IFKM, Karlsruher Institut für Technologie (KIT)







Dr. Werner Willems Manager Business Unit Engineering, TEC4FUELS GmbH



Karl Dums Senior Project Dr. Ing. h.c. F.





Prof. Dr. Helmut Fichlseder Director of the Institute ITnA Graz University of Technology (A)



Dr. Günter Fraidl Senior Vice President Powertrain Systems Passenger Cars AVL List GmbH (A)



Dr. Erik Schünemann Director System Engineering Powertrain Subsystems Robert Bosch GmbH



Dr. Jörg Theobald CoE ICE Calibration Gasoline & Diesel Engines and Battery Core, Volkswagen AG



Dr. Michael Elicker Manager Innovation Engineering, Schaeffler Technologies AG & Co. KG



Jürgen Lehmann Head of R&D Engine & Aftertreatment Systems, Daimler Truck AG



Dieter van der Put Global Vice President Commercial Powertrains. FEV Group GmbH



Dr. Tobias Block Head of Strategy and Content. eFuel Alliance e.V.



Dr. David Bothe Director, Frontier Economics Ltd.



Martin Nitsche Managing Director, FVV e V



Martin Rothbart Senior Product Manager Energy and Sustainability, AVL List GmbH (Á)



Prof. Dr. **Thomas Willner** Professor for Process Engineering, HAW Hamburg

Engine CUNGRESS Program

Welcome and opening of the congress as well as introduction to the program of lectures

Prof. Dr. Peter Gutzmer, Scientific Director of the Congress

Tuesday, 25 February 2025

KEYNOTE LECTURES I

08:45



11:00 Coffee break 13:15 Lunch 16:00 Coffee break

Wednesday, 26 February 2025

08:45

PLENARY LECTURES II

Opening of the second day of the congress

Moderation: Prof. Dr. Christian Beidl, TU Darmstadt



Prof. Dr. Peter Gutzmer, Scientific Director of the Congress





Presentations parallel sessions

Tuesday, 25 February 2025



PC engine technology

Kongress-Saal 1 (1st Floor)



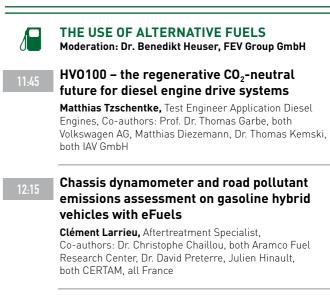
CV engine technology



Robb Janak, Director New Technology, Co-author: Dr. John Schwoerer, both Cummins Valvetrain Technology, USA

Sustainable fuels & energy

Auditorium (Basement)



5 Special requirements of alternative fuels for the selection of suitable materials in the lubricating oil and fuel circuit

Christof Schleusener, Head of Product Management Engine & Mobile Filtration, Co-authors: Dr. Andreas Dworog, Sebastian Pietruschka, Sieghard Pietschner, all Hengst SE

	SUSTAINABILITY AND ITS PROOF Moderation: Martin Rothbart, AVL List GmbH
14:30	Life cycle assessment: different approaches and the need for industry partnership Quentin Gauthier, Head of Sustainability Assessment, Neste, Finland
15:00	Bosch DFT – digital fuel twin as a solution for carbon footprint tracking of fuels Dr. Marko Babic, Head of Product Area Air Quality and Sustainability Solutions, Co-authors: Dr. Michael Storch, Dr. Erik Schünemann, all Robert Bosch GmbH
15:30	Transforming waste to value? Sustainability and levelized cost analysis of power-to- methanol production from sewage sludge Jannik Kexel, Project Manager Electrolysis, Co-authors: Benedikt Schroeder, Dr. Andreas Balazs, Robert Maurer, Dr. Thorsten Schnorbus, Andreas Müller, all FEV Europe GmbH, Dr. Benedikt Heuser, Johannes Buchmann, both FEV Group GmbH, Dr. Daniel Neumann, Dr. Hagen Wegner, both FEV Consulting GmbH



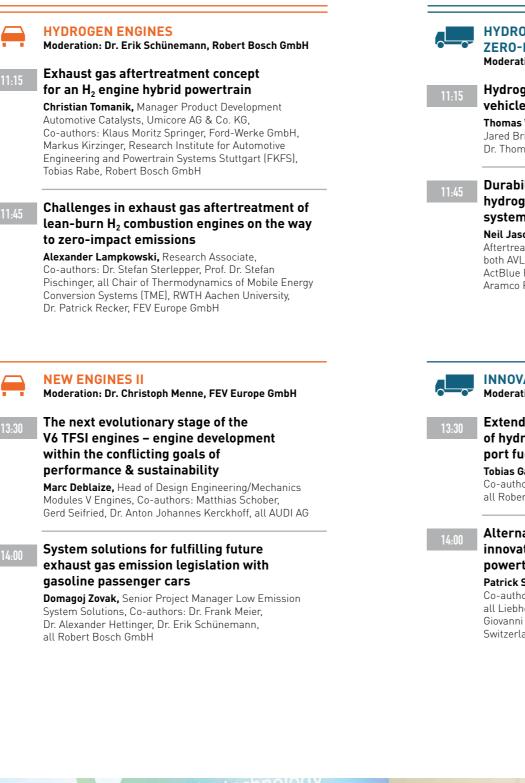
Presentations parallel sessions

Wednesday, 26 February 2025



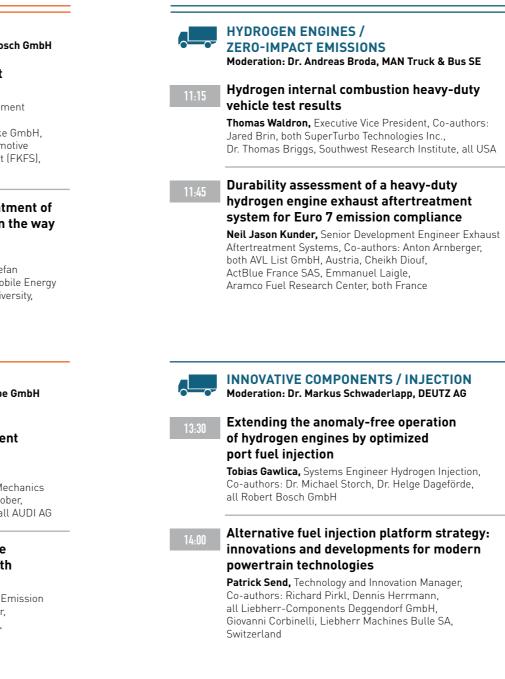
PC engine technology

Kongress-Saal 1 (1st Floor)



CV engine technology

Forum (Ground floor)





The technology engine in the globa



Sustainable fuels & energy

Auditorium (Basement)



eFuels - on the road to R100 Matthias Moras, Manager eFuels Development, Co-authors: Porsche eFuels team, all Dr. Ing. h.c. F. Porsche AG



REFUELS: TECHNOLOGY, AVAILABILITY, AND COSTS Moderation: Dr. Werner Willems, TEC4FUELS GmbH



Obstacles to a German reFuels strategy

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

Analysis of the availability of sustainable, biogenic gasoline in Europe

Lars Knaup, Research Assistant, Institute for Internal Combustion Engines and Powertrains (VKM), TU Darmstadt, Co-authors: Prof. Patricia Thornley, Aston University, Great Britain, Dr. Kornél Szalay, Institute of Technology, Hungarian University of Agriculture and Life Sciences, Hungary, Prof. Dr. Jörg Sauer, Institute of Catalysis Research and Technology (IKFT), Karlsruhe Institute of Technology (KIT)

As of 25 November 2024



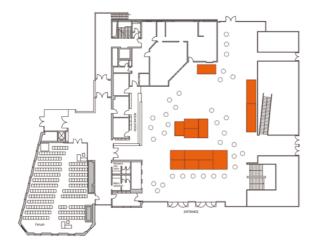
EXHIBITION AND SPONSORSHIP

ACCOMPANYING EXHIBITION

Our exhibition provides the ideal presentation platform for all companies that supply components for complete systems and internal combustion engines, as well as those who contribute to their optimization through their development work or who are active in the fields of sustainable fuels and energy.

Are you, for example, a supplier of components, systems, and modules for diesel and gasoline engines, a provider of measuring and testing equipment, or a development service provider? Would you like to make contact with top-level participants of the International Engine Congress and present your products and services to a specialist audience in your market without waste coverage?

Then be part of our event 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. Choose from a wide range of exhibition and sponsoring possibilities. We will also be happy to design individual sponsoring and exhibition packages for you in accordance with your specific wishes and requirements.



YOUR CONTACT PARTNERS

ATZlive Mr. Alex Woidich Event & Sales Manager Phone +49 611 7878-206 alex.woidich@springernature.com VDI Wissensforum GmbH Ms. Jasmin Habel Project Consultant Exhibition & Sponsoring Phone +49 211 6214-213 jasmin.habel(@vdi.de

GOLD SPONSOR 2025



BRONZE SPONSOR 2025



EXHIBITORS ALREADY REGISTERED FOR 2025*

- ACTech GmbH
- Emitec Technologies GmbH
- Schaeffler Engineering GmbH
- Schaeffler Technologies AG & Co. KG
- SEM AB

POSTER EXHIBITION*

Evelyn Flesch, Institute of Sustainable Mobile Powertrains (NMA), TU Munich

Dr. Sebastian Wohlrab, Leibniz Institute for Catalysis e. V. [LIKAT] Victor Zaghini Francesconi, Institute of Catalysis Research and Technology (IKFT), Karlsruhe Institute of Technology (KIT)

*As of 25 November 2024







We are happy to inform you about the various presentation opportunities available: www.motorenkongress.de/en/exhibition-and-sponsoring

REGISTRATION FEE

Participation on site

Keynote and plenary presentations, panel discussion as well as passenger car engine technology, commercial vehicle engine technology and sustainable fuels & energy € 1,745.- plus VAT € 1,645.- plus VAT for VDI members

Participation via live stream

Keynote and plenary presentations, panel discussion as well as passenger car engine technology, commercial vehicle engine technology and sustainable fuels & energy € 995.– plus VAT € 895.– plus VAT for VDI members

Both participant packages include all submitted conference documents and the use of the digital event platform including live streams. 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 & AMEX). Participants with a billing address outside Germany, Austria and Switzerland are requested to pay by credit card.

DATE

25 and 26 February 2025

LANGUAGES USED IN THE PRESENTATIONS

On site: German and English with simultaneous interpreting (German – English / English – German)

Virtually via live stream: original audio and English simultaneous interpreting

YOUR CONTACT PARTNER

Participants – service and registration

Customer Service Phone +49 211 6214-201 Telefax +49 211 6214-154 wissensforum@vdi.de Online Registration and Further Information:

www.vdiconference.com/01TA810025



VENUE

Kongresshaus Baden-Baden Augustaplatz 10 76530 Baden-Baden | Germany Phone +49 7221 304-0 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.motorenkongress.de/en 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: Conventions & Events Team Phone +49 7221 275-271 sales@baden-baden.com

Please make your reservation by 31 January 2025 at the latest.



VDI Wissensforum GmbH VDI-Platz 1 40468 Düsseldorf wissensforum@vdi.de www.vdiconference.com www.vdiconference.com/01TA810025

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Meeting Place for the Powertrain and Sustainable Fuels Community



Further Information and Online Registration:



www.vdiconference.com/01TA810025

12th International Engine Congress 2025 25 and 26 February 2025 | Baden-Baden | Germany or virtually via live stream

THE ORGANIZERS

ATZlive

// Spotlight on Powertrain and Vehicle Engineering //

Our events are a regular fixture in the calendar for vehicle and engine developers. Here you can expect innovative specialist conferences on up-to-date subjects concerning vehicle and powertrain technology – from the viewpoints of research, development and use.

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 – an ideal addition to what Springer Vieweg offers in the print and online field.



VDI WISSENSFORUM

// 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.

