Meeting Place for the Powertrain Community

22 and 23 February 2022 | Baden-Baden | Germany

with accompanying trade exhibition

Main topics
• Climate-friendly internal combustion engines from a global perspective
• Internal combustion engines and fuels as a complete system: CO₂ neutrality, emissions, electrification
• The use of hydrogen and synthetic fuels
• Cross-sector life cycle considerations

Panel discussion
The internal combustion engine in regenerative energy systems of the future

Top speakers

Dr. Norbert Alt, FEV Group GmbH | Dr. Joachim Damasky, German Association of the Automotive Industry (VDA) | Dr. Jörg Dehmel, Shell Deutschland GmbH | Prof. Dr. Thomas Garbe, Volkswagen AG | Dr. Thomas Hametner, Österreichischer Automobil-, Motorrad- und Touringclub (ÖAMTC), Austria | Mats Hultman, Neste Corporation, Sweden | Dr. Masaaki Kubo, Nissan Motor Co., Ltd., Japan | Björn Noack, Robert Bosch GmbH | Dr. Markus Schwaderlapp, DEUTZ AG | Dr. Frank-Steffen Walliser, Dr. Ing. h.c. F. Porsche AG | Ulrich Weiß, Liebherr Machines Bulle SA, Switzerland

You can also take part virtually via our live stream
A WARM WELCOME TO ALL PARTICIPANTS

More than ever before, climate protection is at the center of the social, political, and industrial discussion in our economies. A major contribution must be made by abandoning fossil fuels, which are currently the world’s dominant source of energy, as quickly as possible.

Hydrogen and synthetic fuels based on biomass and electricity offer excellent potential for quickly transferring the existing infrastructure, together with the billions of vehicles and machines that use internal combustion engines, to a defossilized world. In the mobility sector, the internal combustion engine running on non-fossil fuels is not in competition with all-electric drive systems.

With its unique concept, the International Engine Congress will once again in 2022 bring together the current state of technological knowledge of the overall system of non-fossil fuels and internal combustion engines and a holistic assessment of this system with regard to climate protection.

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

Prof. Dr. Peter 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, 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 “sustainable fuels & energy”.

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

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

Tuesday, 22 February 2022, 19:00 h

ORGANIZERS

ATT 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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  ATZ | MTZ Group

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  FEV Group GmbH

- **Philipp Scarth**
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- **Dieter van der Put**
  Global Vice President Commercial Powertrains,
  FEV Group GmbH

- **Professor Dr. Helmut Eichlseder**
  Director of the Institute, IVT,
  Graz University of Technology (A)

- **Christian Lensch-Franzen**
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  AVL Automobil-Prüftechnik Landau GmbH

- **Prof. Dr. Martin Berger**
  Vice President Corporate Research and Advanced Engineering,
  MAHLE International GmbH
Tuesday, 22 February 2022

Welcome and opening of the congress as well as introduction to the program of lectures
Prof. Dr. Peter Gutzmer, Scientific Director of the Congress

KEYNOTE LECTURES I
Moderation: Prof. Dr. Peter Gutzmer, ATZ | MTZ Group

**Fit for climate sustainability: demand for ICE with zero CO₂ energy?**
Dr. Norbert Alt, COO & Executive Vice President, FEV Group GmbH

**Nissan’s electrification strategy**
Dr. Masaaki Kubo, General Manager, Nissan Motor Co., Ltd., Japan

**Fleet renewals until 2030 – which CO₂ savings are realistic?**
Dr. Joachim Damasky, General Manager, German Association of the Automotive Industry (VDA)

**PC engine technology**
11:15 PC engine technology
EU7/emissions control

**CV engine technology**
11:15 CV engine technology
Hydrogen

**Sustainable fuels & energy**
11:15 Sustainable fuels & energy
Defossilization of the transport sector in Europe – LCA

**Synthetic fuels – potentials for use in engines**

**Emissions control and control systems**

**EU7/emissions control**

**Impulse lecture on the subject of the panel discussion**
Speaker to be announced on the date of the congress

**IN FOCUS: THE INTERNAL COMBUSTION ENGINE IN REGENERATIVE ENERGY SYSTEMS OF THE FUTURE**
Moderation: Dr. Alexander Heintzel, Editor-in-Chief ATZ | MTZ Group,
Prof. Dr. Christian Beidl, Director of the Institute for Internal Combustion Engines and Powertrain Systems (VKM), TU Darmstadt

**PANEL DISCUSSION**
16:45

- **Dr. Joachim Damasky**, General Manager, German Association of the Automotive Industry (VDA)
- **Prof. Dr. Uwe Dieter Grebe**, Managing Director, AVL List GmbH, Austria
- **Ulrich Weiß**, Managing Director, Liebherr Machines Bulle SA, Switzerland

and representatives from politics and administration

End of the first day of the congress

Engine community evening
Wednesday, 23 February 2022

**08:30**
- **PC engine technology**
  - Concepts for a hydrogen internal combustion engine

**08:30**
- **CV engine technology**
  - Variable valve and crank trains

**08:30**
- **Sustainable fuels & energy**
  - Innovative system solutions for fuels and combustion engines

**16:30**
- **08:30**
  - **PC engine technology**
    - The hybridized internal combustion engine

**16:30**
- **CV engine technology**
  - Technologies for next-generation engines

**16:30**
- **Sustainable fuels & energy**
  - Outlook on CO₂ neutrality

**PLENARY LECTURES**

**Moderation: Karl Dums, Dr. Ing. h.c. F. Porsche AG**

**10:15**
- **Future powertrains – the mobile citizen’s view**
  - **Dr. Thomas Hametner**, Head of Technology, Test and Safety, Österreichischer Automobil-, Motorrad- und Touringclub (ÖAMTC), Co-author: Dr. Jürgen BlassNEGGER, Technisches Büro Blassnegger, both Austria

**10:45**
- **Renewable fuels and eFuels take us closer to the climate goals**
  - **Mats Hultman**, Head of OEM Partnerships, Neste Corporation, Sweden, Co-author: Dr. Teemu Sarjovaara, Neste Corporation, Finland

**11:15**
- **Challenges and solutions for fuels of today and tomorrow for a chemical and fuels production unit**
  - **Dr. Jörg Dehmel**, Transformation Manager, Shell Deutschland GmbH

**11:45**
- **The future of the sports car – eFuels and their application**
  - **Dr. Frank-Steffen Walliser**, Vice President Product Lines 911/718, Co-author: Jan Feldmann, both Dr. Ing. h.c. F. Porsche AG

**13:30**
- **PC engine technology**
  - **The hybridized internal combustion engine**

**13:30**
- **CV engine technology**
  - **Technologies for next-generation engines**

**13:30**
- **Sustainable fuels & energy**
  - **Outlook on CO₂ neutrality**

**KEYNOTE LECTURES II**

**Moderation: Prof. Dr. Peter Gutzmer, ATZ | MTZ Group**

**15:00**
- **Measures to lever the CO₂ reduction potential of renewable liquid fuels in the timeframe till 2030**
  - **Prof. Dr. Thomas Garbe**, Senior Manager Energy Carriers, Volkswagen AG, and Björn Noack, Project Director Sustainable Mobility Strategy, Robert Bosch GmbH

**15:30**
- **Sustainable powertrains for off-highway applications**
  - **Dr. Markus Schwaderlapp**, SVP Product Development, Co-authors: Dr. Georg Töpfer, Dr. Heiner Bütte, all DEUTZ AG

**15:00**
- **The off-highway sector in the field of tension of future powertrain concepts – What chances does the internal combustion engine have in this industry?**
  - **Ulrich Weiss**, Managing Director, Liebherr Machines Bulle SA, Switzerland

**16:00**
- **Outlook and concluding remarks**
  - **Prof. Dr. Peter Gutzmer**, Scientific Director of the Congress

**16:30**
- **During the breaks you have the opportunity to visit the exhibition!**

**09:30**
- **Coffee break**

**12:15**
- **Lunch**

**14:30**
- **Coffee break**
Presentations
parallel sessions

Tuesday, 22 February 2022

PC engine technology
Kongress-Saal I (1st Floor)

EU7/EMISSIONS CONTROL
Moderation: Prof. Dr. Uwe Dieter Grebe, AVL List GmbH

11:15 EU7 challenge for electric system
Gerald Teuschl, Product Manager, Co-authors:
Dr. Paul Kapus, Dr. Raimund Ellinger,
all AVL List GmbH, Austria

11:45 Reduction of air slip at overrun fuel cut-off as
an alternative to torque neutral combustions
Thomas Pausch, Engineer Research & Development,
Mercedes-Benz AG and Institute of Land and Sea Transport
Systems (ILS), TU Berlin

12:15 Turbo compressor for efficient high-pressure
air supply in catalyst heaters
Ahmet Çokşen, Aerodynamics & Product Manager,
Co-authors: Philipp Handschuh, both ebm-papst
Mulfingen GmbH & Co. KG, Mario Staiger, Jens Löffler,
both ebm-papst St. Georgen GmbH & Co. KG

SYNTHETIC FUELS –
POTENTIALS FOR USE IN ENGINES
Moderation: Dr. Michael Elicker,
Schaeffler Technologies AG & Co. KG

14:30 The fulfillment of fuel specifications and
resulting challenges presented by reFuels
Dr. Olaf Toedter, Head of New Technologies and
Ignition Systems, KIT Campus Transfer GmbH (KCT),
Co-author: Prof. Dr. Thomas Koch, both Institute for Piston
Machines (IFKM), Karlsruhe Institute of Technology (KIT)

15:00 Drop-in renewable gasoline fuels for CO₂
reduction: evaluation and demonstration
of functional potentials
Dr. Michael Storch, Development Engineer,
Co-authors: Torsten Kunz, both Robert Bosch GmbH,
Dr. Hanno Krämer, Markus Send, both AUDI AG

15:30 Synthetic fuel detection in production vehicles
using machine learning
Dr. André Bojahr, Technical Consultant for Data Science,
Co-authors: Nils Paetsch, Hilko Janßen, Arne Kirchner,
all IAV GmbH
**Sustainable fuels & energy**

Auditorium (Basement)

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**DEFOSsILIZATION OF THE TRANSPORT SECTOR IN EUROPE – LCA**  
Moderation: Dietmar Goericke, Research Association for Combustion Engines (FVV e. V.)

- FVV Fuels Study IV – transformation of European mobility to GHG neutrality

  - **Study design and assumptions**  
    Dr. Ulrich Kramer, Technical Expert Future Fuels, Ford-Werke GmbH

  - **Energy demand and societal costs**  
    Dr. David Bothe, Director, Frontier Economics Ltd.

  - **Environmental impacts and critical raw material demands**  
    Dr. Chiara Pozzi, Giuseppe Previtero, Luisa Cusanno, all PUNCH Torino SpA, Italy, Dr. Rahul Mital, General Motors, USA

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**INDUSTRIALIZATION OF CO₂-REDUCING FUELS FOR THE EXISTING FLEET**  
Moderation: Dr. Wolfgang Warnecke, Shell Global Solutions (Deutschland) GmbH

- eFuels – from vision to reality

  - Karl Dums, Senior Manager eFuels, Dr. Ing. h.c. F. Porsche AG

- Impact of OME/diesel blends on a modern exhaust gas aftertreatment system and resulting emissions of a multi-cylinder and a single-cylinder research engine

  - Alexander Mokros, Research Assistant, Institute for Internal Combustion Engines and Powertrain Systems (VKM), TU Darmstadt

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**Renewable fuels from biomass and their contribution to sustainable mobility**

- Dr. Franziska Müller-Langer, Head of Department Biorefineries, DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH
Presentations parallel sessions

Wednesday, 23 February 2022

Breaks
09:30 Coffee break
12:15 Lunch
14:30 Coffee break

PC engine technology
Kongress-Saal I (1st Floor)

08:30
CONCEPTS FOR A HYDROGEN INTERNAL COMBUSTION ENGINE
Moderation: Prof. Dr. Helmut Eichlseder, Graz University of Technology
Analysis of mixture formation and combustion in H₂ engines for passenger cars and light commercial vehicles
Dr. David Lejsek, Senior Expert Thermodynamics, Co-authors: Dr. Paul Jochmann, both Robert Bosch GmbH, Dr. Peter Grabner, Dr. Eberhard Schutting, both Institute of Internal Combustion Engines and Thermodynamics (IVT), Graz University of Technology, Austria

09:00
Aftertreatment system layout for a hydrogen combustion engine
Dr. Lukas Virnich, Product Manager Commercial Hydrogen Engines, Co-authors: Dr. Verena Huth, both FEV Europe GmbH, Dr. Matthias Thewes, FEV Group GmbH

13:30
THE HYBRIDIZED INTERNAL COMBUSTION ENGINE
Moderation: Dr. Michael Winkler, Hyundai Motor Europe Technical Center GmbH
xHEV concept achieving the 2030 CO₂ targets
Dr. Matthias Thewes, Group Vice President Gasoline & Hybrid Powertrains, Co-authors: Dr. Henning Baumgarten, both FEV Group GmbH, Dr. Tolga Uhlmann, Dr. Andreas Balazs, Peter Zwar, Dr. Dominik Lückmann, Andreas Müller, Dr. Christian Sahr, Thomas Lüdiger, all FEV Europe GmbH

14:00
Thermal management of e-drivetrains through new cooling fluids
Dr. Volker Null, Technology Manager Thermal & Dielectric Fluids, Shell Global Solutions (Deutschland) GmbH
08:30
VARIABLE VALVE AND CRANK TRAINS
Moderation: Dieter van der Put, FEV Group GmbH
Application of dynamic cylinder deactivation for NOx and CO2 emissions reduction on a HD diesel truck
Dr. Hans-Josef Schiffgens, Business Development Executive, Co-authors: Robert Wang, Vijay Srinivasan, all Tula Technology Inc., USA

09:00
Variable compression ratio system for next-generation large bore engines – latest development results
Stefano Ghetti, Director Diesel Base Engine and Powertrain Development, Co-authors: Christopher Marten, Dr. Werner Bick, all FEV Europe GmbH, Dieter van der Put, FEV Group GmbH

13:30
Spark ignition – searching for the optimal spark profile
Dr. Jakob Ängeby, Director Research, SEM AB, Sweden, Co-authors: Anupam Saha, Ola Björnsson, Prof. Marcus Lundgren, all Department of Energy Sciences, Combustion Engines, Lund University of Technology, Sweden

14:00
50 % BTE on a hydrogen internal combustion engine
Rolf Heinrich Dreisbach, Executive Vice President, Co-authors: Anton Arnbeger, Martin Wieser, Bernhard Raser, all AVL List GmbH, Austria

08:30
INNOVATIVE SYSTEM SOLUTIONS FOR FUELS AND COMBUSTION ENGINES
Moderation: Dr. Werner Willems, Ford Forschungszentrum Aachen GmbH
Sustainable heavy-duty transport from a future energy-system perspective
Dr. Karsten Wilbrand, Senior Principal Scientist, Co-authors: Dr. Andreas Kolbeck, Dr. Andreas Janssen, Jörg Adolf, all Shell Global Solutions (Deutschland) GmbH

09:00
Closed Carbon Cycle Mobility – assessment of synthetic fuels from renewable methanol
Benedikt Heuser, Senior Project Manager, Co-authors: Dr. Thorsten Schnorbus, Dr. Martin Müther, all FEV Europe GmbH

13:30
CO2 Direct Air Capture (DAC): challenges and opportunities to meet climate targets
Prof. Dr. Hans Kistenmacher, Senior Advisor to the Board of Global Thermostat, Co-authors: Prof. Dr. Peter Eisenberger, Columbia University und Global Thermostat, Dr. Ron Chance, Global Thermostat, both USA

14:00
Roadmap for CO2 reduction by upscaling the production of alternative fuels
Prof. Dr. Manfred Aigner, Director of the Institute, Co-authors: Dr. Christoph Arndt, both Institute of Combustion Technology, German Aerospace Center (DLR), Dr. Ulf Neuling, Hamburg University of Technology (TUHH), Uwe Sautig, Griesemann Gruppe
EXHIBITION AND SPONSORSHIP

GOLD SPONSOR 2022

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 digital event platform. 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.

EXHIBITORS ALREADY REGISTERED FOR 2022

- ebm-papst St. Georgen GmbH & Co. KG
- KST-Motorenversuch GmbH & Co. KG
- Nagel Maschinen- und Werkzeugfabrik GmbH
- SEM AB

POSTER PRESENTATIONS 2022

- BASF SE
- Evolve Lubricants, Inc.

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We are happy to inform you about the various presentation opportunities available: www.motorenkongress.de/en
We are happy to inform you about the various presentation opportunities available: www.motorenkongress.de/en this year to participate in the conference virtually via our live stream. The digital event platform 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.

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. If you are prevented from attending the conference in person for health reasons or due to travel restrictions, you have the opportunity to participate in the conference virtually via our live stream. The digital event platform 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.

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.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: Conventions & Events Team
Phone +49 7221 275-271
sales@baden-baden.com

Please make your reservation by 20 January 2022 at the latest.

REGISTRATION FEE

Participation on site
Keynote, impulse, and plenary presentations, panel discussion as well as passenger car engine technology, commercial vehicle engine technology and sustainable fuels & energy
€ 1,595.– plus VAT
€ 1,495.– 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 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. 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

22 and 23 February 2022

LANGUAGES USED IN THE PRESENTATIONS

On site: German and English with simultaneous interpreting (German – English / English – German)
Virtually via live stream: English

YOUR CONTACT PARTNER

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THE ORGANIZERS

**ATZlive**
// 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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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.

**Further Information and Online Registration:**

www.enginecongress.com

9th International Engine Congress 2022
22 and 23 February 2022 | Baden-Baden | Germany or virtually via live stream