engine 11th Cungress and

Meeting Place for the Powertrain and Sustainable Fuels Community







You can also take part virtually via our

live stream

27 and 28 February 2024 | 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
- Further development potentials for the IC engine
- Hydrogen and other sustainable energy sources
- Legal and technological differences in the markets

Panel discussion

No climate protection without IC engines!

Top speakers



Jonathan Atkinson, Cummins Inc., United Kingdom | Dina Bacovsky, BEST – Bioenergy and Sustainable Technologies GmbH, Austria | Michael Fleiss, Aurobay, Sweden | Prof. Dr. Uwe Dieter Grebe, AVL List GmbH, Austria | Dr. Monika Griefahn, eFuel Alliance e. V. | Thorsten Herdan, HIF EMEA GmbH | Benjamin Krieger, CLEPA, Belgium | Peter Müller-Baum, VDMA e. V. | Takahiro Nagai, National Research and Development Agency / New Energy and Industrial Technology Development Organization (NEDO), Japan | Benoit Poulet, Shell Global Solutions (Deutschland) GmbH | Prof. Dr. Peter Schöggl, AVL List GmbH, Austria | Dr. Markus Schwaderlapp, DEUTZ AG





engine Cungress

A WARM WELCOME **TO ALL PARTICIPANTS**

Concern about global climate change continues to increase. In Europe, discussions are still being dominated for political reasons by a ban on internal combustion engines through defined CO₂ fleet limit values and emissions standards. It will be interesting to see when the proposed one-sided, battery-oriented solution for passenger cars and commercial vehicles will become more adapted to the target orientations of other regions.

Leading Asian countries and others, together with industry and science, are relying on innovations for the production and use of energy in mobility that are open to all technologies. Only in this way can the defossilization of existing vehicle fleets - which is absolutely essential if we are to achieve our goals - be implemented quickly and in an economically justifiable manner. Due to the complex diversity of applications, a key role will be played by the creation of circular energy, raw material, supply, and production chains.

The congress will examine the future role of the internal combustion engine and its non-fossil fuels from the global perspective of leading

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



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, 27 February 2024, 19:00 h



SIMULTANEOUS INTERPRETING **GERMAN** → **ENGLISH**

ORGANIZERS





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 offhighway applications.

PROGRAM ADVISORY BOARDS

PASSENGER CAR ENGINE TECHNOLOGY



Peter Gutzmer Editor-in-Charge ATZ | MTZ Group



Dr. Christian **Brenneisen** Head of Pre-Development & Exhaust Aftertreatment Four cylinder In-line Gasoline Engine/ Simulation Powertrain, AUDI AG





Prof. Dr. Uwe Dieter Grebe Executive Vice President. AVL List GmbH (A)



Christian Lensch-Franzen CTO Powertrain Engineering, APL Automobil-Prüftechnik Landau GmbH



Dr. Christoph Executive Vice President, FEV Europe GmbH



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Dr. Marco Warth Vice President Product Development Engine Systems and Components MAHLE GmbH



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



COMMERCIAL VEHICLE ENGINE TECHNOLOGY



Christian Beidl Director of the Institute, VKM, TU Darmstadt



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



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

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



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



Dr. Markus Schwaderlapp SVP Research & Development, DEUTZ AG



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



SUSTAINABLE FUELS & ENERGY



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



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



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



Dr. David Bothe Director, Frontier Economics Ltd.



Dietmar Goericke Managing Director. FVV e. V.



Dr. Benedikt Heuser **Group Director** Energy, FEV Group



Jörg Hübeler Head of Market Development EMEA & APAC, Neste Germany



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



Dr. Wolfgang Warnecke Adviser Carbon Management, Shell Deutschland GmbH



Dr. Werner Willems Technical Specialist Powertrain Combustion Systems, Ford Forschungszentrum Aachen GmbH



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

engine Cungress Program

Tuesday, 27 February 2024



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

08:45

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

The technology perspective of the internal combustion engine in the global energy mix of the future



Prof. Dr. Uwe Dieter Grebe, Executive Vice President, AVL List GmbH, Austria

eFuels and their contribution to climate-neutral mobility



Dr. Monika Griefahn, Chair, eFuel Alliance e. V.

Green Innovation Fund of NEDO toward a carbon-neutral future



Renewable energies in the tank - reality or fiction?



Thorsten Herdan, CEO, HIF EMEA GmbH

11:45

PC engine technology 7ero emission

11:45



PC engine technology Solutions for future emissions legislation

CV engine technology Hydrogen engines



CV engine technology More efficiency: technologies and field experience

Sustainable fuels & energy Direct air capture



Sustainable fuels & energy Methanol

IN FOCUS: NO CLIMATE PROTECTION WITHOUT IC ENGINES!

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

Impulse lecture: **Bringing down** CO₂ emissions from transport. Are we using all solutions?

Benjamin Krieger,

Secretary General, CLEPA -European Association of Automotive Suppliers, Belgium **PANEL DISCUSSION**



Michael Fleiss, CEO, Aurobay, Sweden



Benjamin Krieger,



Secretary General, CLEPA -European Association of Automotive Suppliers, Belgium



Dr. Markus Schwaderlapp, SVP Research & Development, DEUTZ AG



Takahiro Nagai, Deputy Director, New Energy and Industrial Technology Develop-

Dr. Monika Griefahn,

Chair, eFuel Alliance e. V.



a representative from politics

ment Organization (NEDO), Japan

18:15 End of the first day of the congress

Engine community evening

Wednesday, 28 February 2024

10:00 Coffee break 12:15 Lunch 14:30 Coffee break

Breaks

09:00

PC engine technology Technologies for more efficiency

CV engine technology Solutions for future emissions legislation



Sustainable fuels & energy Synthetic fuels more than CO₂ reduction

PLENARY LECTURES

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

From solution space to product development - DEUTZ's transition to sustainability



Fuel agnostic engines the next generation of heavy-duty ICE

Jonathan Atkinson, Executive Director -Product Strategy, Cummins Inc., United Kingdom

From fossil to green oil: how a legal framework for the transformation must be designed

Peter Müller-Baum, Managing Director Engines and Systems, VDMA e. V.



13:30

PC engine technology

Potentials of the internal combustion engine from a research perspective

CV engine technology Optimization of hydrogen engines



Sustainable fuels & energy International development in sustainable fuels

KEYNOTE LECTURES II

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

Sustainability also in motorsport? Track-toroad technology trends in fuels and drivetrains





Prof. Dr. Peter Schöggl, Vice President BF Racing, AVL List GmbH, Austria, Benoit Poulet, Delivery Manager Motorsport Product Dev., Shell Global Solutions (Deutschland) GmbH

What powers the global mobility of tomorrow?



Michael Fleiss, CEO, Co-author: Mattias Berglund, both Aurobay, Sweden

Outlook and concluding remarks 16:30 Prof. Dr. Peter Gutzmer, Scientific Director of the Congress

Meeting the 2030 targets for advanced biofuels



Doris Matschegg, both BEST – Bioenergy and Sustainable Technologies GmbH, Austria

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

to the parallel sessions





Presentations

parallel sessions

Tuesday, 27 February 2024



PC engine technology

Kongress-Saal I (1st Floor)



ZERO EMISSION

Moderation: Dr. Christian Brenneisen, AUDI AG

11:45

The new V8 powertrains of the Porsche Cayenne

Thomas Wasserbäch, Head of Combustion and Hybrid Powertrain System, Dr. Ing. h.c. F. Porsche AG

12:15

Optimization of combustion system, emission concept and hybrid operating strategy for a LCV powered by H₂ engine

Dr. Jan Niklas Geiler, Project Manager pfp H_2 ICE Democar, Robert Bosch GmbH, Co-authors: Klaus Moritz Springer, Ford-Werke GmbH, Michael Blomberg, Chair of Thermodynamics of Mobile Energy Conversion Systems (tme), RWTH Aachen University, Markus Kirzinger, Research Institute for Automotive Engineering and Powertrain Systems Stuttgart (FKFS)

12:45

PHev towards zerO EmissioNs & ultimate ICE efficiency: the PHOENICE project

Dr. Toni Tahtouh, Project Leader in the Mobility & Systems Division, IFP Energies Nouvelles, France, Co-authors: Prof. Federico Millo, Dr. Luciano Rolando, both Department of Energy, Polytechnic University of Turin, Rosario Liodice, FEV Italy, all Italy



SOLUTIONS FOR FUTURE EMISSIONS LEGISLATION

Moderation: Dr. Marco Warth, MAHLE GmbH

14:30

On-board monitoring for EU7 – evolution or revolution

Dr. Martin Piffl, Chief Engineer System Simulation & Analytics, Co-authors: Peter Götschl, Kurt Klumaier, Hannes Atzler, all AVL List GmbH, Austria

15:00

Innovative and cost-effective exhaust aftertreatment for LEV Tier IV emission legislation

Rolf Brück, Managing Director, Co-authors: Katrin Konieczny, both Emitec Technologies GmbH, Mats Laurell, Henrik Kobmark, both Aurobay, Sweden

15:30

Same engine, less CO₂ – maximizing fuel economy without compromising oil consumption

Michael Seemann, OEM & Industry Relation Manager, Co-author: Sabrina Strube, both Evonik Operations GmbH

CV engine technology

Forum (Ground floor)



HYDROGEN ENGINES

Moderation: Jürgen Lehmann, Daimler Truck AG

11:45

Hydrogen combustion engine with highest efficiency

André Ferrarese, Director Research and Development, Co-authors: Elio Augusto Kumoto, Dr. Ralf Marquard, all Tupy SA, Brazil

12:15

Optimized hydrogen injection strategies for lowest NO_x emissions

Dr. Olaf Weber, Project Leader Engine Systems, Co-authors: Jan Leberwurst, Dr. Jochen Broz, all Schaeffler Technologies AG & Co. KG, Dr. Jens Steinmill, Schaeffler Engineering GmbH

12:45

Tailored cooling and charge motion concept for spark ignited hydrogen combustion engine to achieve highest efficiency and power density

Dr. Lukas Virnich, Product Manager Hydrogen Commercial Engines, Co-authors: Dr. Björn Franzke, Dr. Avnish Dhongde, all FEV Europe GmbH

Sustainable fuels & energy

Auditorium (Basement)



DIRECT AIR CAPTURE

Moderation: Dr. Tobias Block, eFuel Alliance e. V.

11.45

Direct air capture – technology status and challenges in technology scaling

Dr. Marc-Simon Löffler, Head of Department Renewable Fuels and Processes (REG), Co-author: Raphael Vollmer, both Center for Solar Energy and Hydrogen Research Baden-Württemberg (ZSW)

12:15

Regulatory framework and certification of renewable fuels of non-biological origin (RFNBOs)

Julia Nevares Celli de Oliveira, Senior Project Manager Sustainability, Meo Carbon Solutions GmbH

12:45

Direct air capture: core technology for carbon negativity

Karl Dums, Senior Project Manager eFuels, Co-authors: Arne Siemens, Fabian Ehrat, all Dr. Ing. h.c. F. Porsche AG



MORE EFFICIENCY: TECHNOLOGIES AND FIELD EXPERIENCE

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

14:30

Fuel injection technology for hydrogen and its derivates – development progress for heavy-duty applications

Günther Neuhaus, Project Manager Hydrogen Components, Co-authors: Richard Pirkl, Patrick Send, Dennis Herrmann, all Liebherr-Components Deggendorf GmbH,

François Masson, Head of Departement System Integration and Control, Co-author: Giovanni Corbinelli, both Liebherr Machines Bulle SA, Switzerland

15:00

Thermodynamic simulation of engine brake systems with decompression for heavy-duty applications with the help of variable valve train systems

Marlies Stühmer, Senior Specialist Hydromechanical Systems Modeling and Simulation, Co-authors: Philipp Müller, Dr. Jan Fortl, Michael Neumann, all Schaeffler Technologies AG & Co. KG

15:30

Effects of advanced truck fleet monitoring on engine efficiency, reliability, and sustainability

PhD Luis Serrano, Professor, Co-authors: Prof. PhD Joao Fonseca Pereira, Joao Braguez, Ricardo Almeida, all School of Technology and Management, Polytechnic Institute Leiria, Portugal



METHANOL

Moderation: Dr. Werner Willems, Ford Forschungszentrum Aachen GmbH

14:30

Engine technology used for methanol-fueled vessels at sea

Kjeld Aabo, Senior Advisor Maritime Transport, Methanol Institute, Belgium

15:00

Green methanol production – introduction of the "WATER" project

Dr. Benedikt Heuser, Group Director Energy, FEV Group GmbH, Co-authors: Dr. Thorsten Schnorbus, Dr. Adrian Schlosshauer, both FEV Europe GmbH, Florian Tidau, Teaching and Research Area Mechatronics in Mobile Propulsion (MMP), RWTH Aachen University

15:30

Methanol as fuel – status of standardization and outlook

Dr. Jürgen Fischer, Managing Director FAM, DGMK e. V.



Presentations

parallel sessions

Wednesday, 28 February 2024



PC engine technology

Kongress-Saal I (1st Floor)



TECHNOLOGIES FOR MORE EFFICIENCY

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



Development of a passive pre-chamber spark plug for passenger cars feasible for mass production

Dr. Alexander Eichhorn, System Developer PC/LCV Combustion Concepts / Thermodynamics, Co-authors: Matthias Blankmeister, Michael Frank, Dr. Corinna Vonau, all Robert Bosch GmbH



Overview of current developments of pre-chamber spark plugs for passenger car applications

Marko Certic, Lead Engineer Spark Ignited Combustion Concepts, AVL List GmbH, Austria, Co-authors: Dr. Metin Korkmaz, Federal-Mogul Ignition GmbH, James Lykowski, Tenneco Powertrain Ignition, USA



POTENTIALS OF THE INTERNAL COMBUSTION ENGINE FROM A RESEARCH PERSPECTIVE

Moderation: Prof. Dr. Helmut Eichlseder, TU Graz



Potentials, chances, and evaluation of diesel technology for passenger car application

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



X-in-the-loop and reinforcement learning for emission control development

Dr. Sung Yong Lee, Chief Engineer, Co-authors: Mario Picerno, Prof. Dr. Jakob Andert, all Teaching and Research Area Mechatronics in Mobile Propulsion (MMP), RWTH Aachen University

CV engine technology

Forum (Ground floor)



SOLUTIONS FOR FUTURE EMISSIONS LEGISLATION

Moderation: Dr. Michael Elicker, Schaeffler Technologies AG & Co. KG

09:00

EPA'27, Tier 5, Euro 7 – divergent ambitions: future challenges and technology approaches for EU and US for commercial vehicles

Anton Arnberger, Product Manager Commercial Engines, Co-authors: Hannes Wancura, Hannes Atzler, Robert Gunja, all AVL List GmbH, Austria

09:30

Efficient emission reduction by the thermal management system CatVap® with conventional and synthetic fuels

Artur Müller, Lead Development Engineer Series Development, Co-authors: Fabian Feldhaus, Robin Thannimmotil, all Albonair GmbH, Robert Szolak, Fraunhofer Institute for Solar Energy Systems (ISE)

Sustainable fuels & energy

Auditorium (Basement)



SYNTHETIC FUELS - MORE THAN CO₂ REDUCTION

Moderation: Prof. Dr. Thomas Koch, Karlsruhe Institute of Technology (KIT)

09:00

Using drop-in gasolines with increased renewable potential: a comparison to some typical fossil fuels concerning emission testing and fuel composition

Dr. Hanno Krämer, Senior Specialist Fuels, AUDI AG, Co-author: Markus Send, Audi Formula Racing GmbH

09:30

Lecture inquired



OPTIMIZATION OF HYDROGEN ENGINES

Moderation: Dr. Markus Schwaderlapp, DEUTZ AG

13:30

Hydrogen internal combustion engine dyno test results with a driven turbo

Thomas Waldron, Executive Vice President, Co-author: Jared Brin, both SuperTurbo Technologies Inc., USA

14:00

Virtual product development for the hydrogen direct injection engine (H₂-DI)

Cyrill Mandanis, Simulation Engineer System Engineering Powertrain Components, Co-authors: Dr. Paul Jochmann, Dr. Robin Hellmann, Nikola Jovicic, all Robert Bosch GmbH



INTERNATIONAL DEVELOPMENT IN SUSTAINABLE FUELS

Moderation: Martin Rothbart, AVL List GmbH

13:30

Fuel science: sustainable mobility based on renewable resources

Dr. Bastian Lehrheuer, Chief Engineer, Chair of Thermodynamics of Mobile Energy Conversion Systems (tme), RWTH Aachen University

14.00

Renewable diesel as option to defossilize quickly and efficiently – theory and practice

Jörg Hübeler, Head of Market Development EMEA & APAC, Neste Germany GmbH

As of 7 November 2023





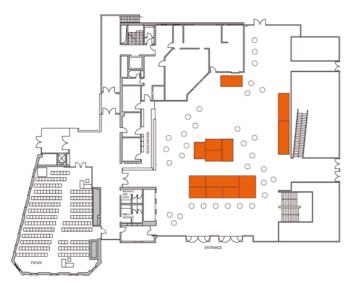
EXHIBITION AND SPONSORSHIP

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.



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EXHIBITORS ALREADY REGISTERED FOR 2024

AS OF 7 NOVEMBER 2023

- Albonair GmbH
- AVL List GmbH
- Emitec Technologies GmbH
- SEM AB

YOUR CONTACT PARTNERS

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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, impulse, and plenary presentations, panel discussion as well as passenger car engine technology, commercial vehicle engine technology and sustainable fuels & energy

€ 1,695.- plus VAT

€ 1,595.- 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 & AMEX].

Participants with a billing address outside Germany, Austria and Switzerland are requested to pay by credit card.

DATE

27 and 28 February 2024

LANGUAGES USED IN THE PRESENTATIONS

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

Virtually via live stream: English

Online Registration and Further Information:

www.motorenkongress.de/er



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 29 January 2024 at the latest.

YOUR CONTACT PARTNER

Participants – service and registration

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Meeting Place for the Powertrain and Sustainable Fuels Community







Further Information and Online Registration:



www.motorenkongress.de/en

11th International Engine Congress 2024 27 and 28 February 2024 | 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.



