

international **engine** 5th **Congress**

Meeting Place for the Engine Community



PC



CV



Fuels

27 and 28 February 2018 | Baden-Baden | Germany
with accompanying trade exhibition

In focus: energy systems and powertrains in 2030

Panel discussion: let's get rid of the internal combustion engine!?

Main topics

- Engines and fuels as complete systems
- CO₂ reduction
- Real driving emissions
- Spark-ignition engines in complete lambda 1 operation
- Diesel engines in electrified powertrains
- Synthetic fuels

Top Speakers



Dr. Wolfgang Demmelbauer-Ebner, Volkswagen AG | **Rudolf Ellensohn**, Liebherr Machines Bulle S.A., Switzerland | **Prof. Dr. Peter Gutzmer**, Schaeffler AG | **Thorsten Herdan**, VDMA e. V. | **Dr. Christian Landerl**, BMW Group | **Carsten Müller**, German Federal Parliament | **Jürgen Resch**, Deutsche Umwelthilfe e. V. | **Dr. Otmar Scharrer**, MAHLE International GmbH | **Dr. Markus Schwaderlapp**, DEUTZ AG | **Rashmi Urdhwarashe**, Automotive Research Association of India (ARAI), India

international **engine** 5th congress

A WARM WELCOME TO ALL PARTICIPANTS

The 5th International Engine Conference aims to make a contribution towards moving the emotional discussion about internal combustion engines back to an informed, objective level. Acclaimed experts from the automobile and commercial vehicle sectors will create this scientific basis by offering new approaches to solutions. Managers and decision-makers from these industries will present their companies' technical strategies and provide new impetus.

Efficient passenger car and commercial vehicle engines forming an integrated system together with fuels are the key technologies for CO₂-neutral individual mobility with the lowest 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 FESTIVAL HALL BADEN-BADEN

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



The Festival Hall Baden-Baden is Germany's biggest opera house and concert hall and is one of the largest classical music venues in Europe. The annual program comprises four festival cycles. The modern concert hall was constructed on the track bed of a former railway station, and since then the impressive station building, which was built in 1895, has been used as the foyer and part of the festival hall complex. It provides the ideal venue for the Engine Congress and is the perfect backdrop for lively discussions with expert colleagues.

ATZlive and VDI Wissensforum cordially invite you:
Tuesday, 27 February 2018, 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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national GmbH



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GmbH



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Robert Bosch GmbH



COMMERCIAL VEHICLE ENGINE TECHNOLOGY



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Senior Vice President
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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)



Lukas Walter
Vice President
Commercial
Powertrain
Systems,
AVL List GmbH (A)



INNOVATIVE FUELS



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WM Engineering &
Consulting GmbH

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Research
Association
for Combustion
Engines (FVW e. V.)



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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, 27 February 2018

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)

Mastering the future of gasoline engines



09:30

Dr. Christian Landerl, Head of Development Gasoline Engines, Co-authors: Prof. Dr. Christian Schwarz, Dr. Julian Lerch, all BMW Group

Powertrain 2030: driven by diversification



10:00

Dr. Otmar Scharrer, Vice President Corporate Research and Advanced Engineering, MAHLE International GmbH

Towards CO₂ neutral mobility in off-highway applications



10:30

Dr. Markus Schwaderlapp, Head of Research & Development, Co-author: Jürgen van Zadelhoff, both DEUTZ AG

11:45

parallel sessions

11:45

PC engine technology
CO₂ reduction



11:45

CV engine technology
Non-road/real driving emissions



11:45

Innovative fuels
Holistic considerations



14:45

PC engine technology
Lambda 1 over the whole engine map



14:45

CV engine technology
Electrification in the 2025 powertrain mix




14:45

Innovative fuels
Application of synthetic fuels



IN FOCUS: ENERGY SYSTEMS AND POWERTRAINS IN 2030

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

Key points of the WKM position paper



16:45

Prof. Dr. Christian Beidl, Head of Institute for Internal Combustion Engines and Powertrain Systems, TU Darmstadt

PANEL DISCUSSION

Let's get rid of the internal combustion engine!?

17:00



Dr. Wolfgang Demmelbauer-Ebner
Head of Gasoline Engine Development, Volkswagen AG



Rudolf Ellensohn
Technical Managing Director Combustion Engines, Liebherr Machines Bulle S.A., Switzerland



Carsten Müller MdB
i. a.: Member of the Committee for Environment, Nature Conservation, Building & Nuclear Safety, CDU Party, German Federal Parliament



Jürgen Resch
Executive Director, Deutsche Umwelthilfe e. V.



Dr. Otmar Scharrer
Vice President Corporate Research and Advanced Engineering, MAHLE International GmbH



Moderation: Dr. Alexander Heintzel, Editor-in-Chief ATZ | MTZ Group, 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 Festival Hall Baden-Baden

Wednesday, 28 February 2018



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

09:00

parallel sessions

09:00

PC engine technology
 Mixture formation and combustion



09:00

CV engine technology
 Gas engines – technology & application



09:00

Innovative fuels
 Bridge technologies



ENGINE AND FUEL

Moderation: Wolfgang Maus, WM Engineering & Consulting GmbH

Auditorium (Basement)

**A systemic approach:
 chances for the engines
 of the future!?**



10:30

Wolfgang Maus,
 Managing Director, WM Engineering & Consulting GmbH

**Emission potential of
 operating fluids and
 powertrain functions**



10:40

Christian Lensch-Franzen, Head of Engineering,
 Co-authors: Dr. Marcus Gohl, Michael Friedmann,
 Tobias Mink, all APL Automobil-Prüftechnik Landau GmbH

**Energy transition and sector
 coupling – general framework
 for the future mobility sector**



11:10

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

**Diesel – eFuel blends for
 simultaneous reduction of
 real driving NO_x and CO₂ emissions**



11:40

Dr. Gerd Rösel, Head of Advanced System Engineering,
 Co-authors: Dr. Giovanni Avolio, Jürgen Grimm, Dr. Oliver
 Maiwald, Dr. Oliver Kastner, Rolf Brück, all Continental AG

13:30

parallel sessions

13:30

PC engine technology
 Diesel hybrid



13:30

CV engine technology
 Engines –
 an international perspective



13:30

Innovative fuels
 Production of synthetic fuels



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

**Mobility for tomorrow –
 with or without the internal
 combustion engine?**



15:00

Prof. Dr. Peter Gutzmer, Deputy CEO,
 Chief Technology Officer, Schaeffler AG

**Challenges for the Indian
 automotive industry on the
 basis of BS-VI introduction in 2020**



15:30

Rashmi Urdhwaresh, Director,
 Automotive Research Association of India (ARAI), India

**Title of the presentation
 to be announced**



16:00

Thorsten Herdan, Managing Director Engines and
 Systems, VDMA e. V.

16:30

Outlook and concluding remarks
Dr. Alexander Heintzel, Editor-in-Chief ATZ | MTZ Group, and
Anne Bieler-Bultmann, Project Leader, VDI Wissensforum GmbH

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

to the parallel sessions



Presentations

parallel sessions

**Tuesday,
27 February 2018**



Breaks

11:00 Coffee break

13:15 Lunch

16:15 Coffee break

PC engine technology

Auditorium (Basement)



CO₂ REDUCTION

Moderation: Dr. Nikolai Ardey, AUDI AG

11:45

75g CO₂/km – powertrain concept and optimized powertrain components

Matthias Kratzsch, Executive Vice President
Powertrain Development, Co-authors: Dr. Mirko Leesch,
Dr. Christoph Danzer, all IAV GmbH

12:15

Title of the presentation to be announced

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

12:45

The Dual Mode VCS System as a modular variant for different engine families

Dr. Wolfgang Schöffmann, Head of Technology
Base Powertrain, Co-authors: Dr. Helfried Sorger,
both AVL List GmbH, Austria, Dr. Kai Arens,
IWIS Motorsysteme GmbH & Co. KG



LAMBDA 1 OVER THE WHOLE ENGINE MAP

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

14:45

All lambda 1 gasoline powertrains

Michael Görgen, Team Leader Gasoline Engine
Aftertreatment Calibration, Co-authors: Dr. Norbert Alt,
both FEV Europe GmbH, Johannes Claßen, Institute for
Combustion Engines, RWTH Aachen University

15:15

Technical opportunities to extend the stoichiometric operation area of boosted gasoline engines in the high volume segment

Dr. Claus Glahn, Technology Leader – Boosting,
Co-authors: Dr. Ingo Hermann, Dr. Matthias Kluin,
Achim Königstein, all Opel Automobile GmbH

15:45

High performance and stoichiometric operation – vision or reality?

Dr. Paul Kapus, Manager Gasoline Engine Development
and Concept Cars, Co-authors: Matthias Neubauer,
Daniel Hilbert, Manuel Krenn, Dr. Günter Fraidl,
all AVL List GmbH, Austria

CV engine technology

Forum (Ground Floor)



NON-ROAD/REAL DRIVING EMISSIONS

Moderation: Prof. Dr. Christian Beidl, TU Darmstadt

11:45

Real-time on-road oil consumption measurements for a commercial heavy-duty diesel engine

Tom George, Project Manager Development Powertrain Commercial Applications, Co-author: Volker Schille, both IAV GmbH, **Thomas McKinley Ph.D.**, Systems Integration and Validation Chief Engineer, Co-author: Trenton Berardi, both Cummins Inc., USA

12:15

High-efficiency SCR system with integrated particle filtration in the field of mobile machines

Adrian Troeger, Development Engineer, Co-authors: Dr. Vinod Rajamani, Dr. Georg Töpfer, Dr. Heiner Bülte, all DEUTZ AG

12:45

How to assess the state of exhaust catalyst systems in driving vehicles?

Christian von Pyschow, Scientific Assistant, Co-authors: Nicolas Hummel, Prof. Dr. Christian Beidl, all Institute for Internal Combustion Engines and Powertrain Systems, TU Darmstadt, Dr. Andreas Geißelmann, Umicore AG & Co. KG



ELECTRIFICATION IN THE 2025 POWERTRAIN MIX

Moderation: Lukas Walter, AVL List GmbH

14:45

Electro fuels as alternative to electrification – energetic and economic analysis

Christian Bach, Head of Department, Swiss Federal Laboratories for Materials Science and Technology (Empa), Switzerland

15:15

Electrification within the drive mix 2025 – effects on application development for commercial vehicles

Markus Uhl, Development Engineer, Mitsubishi Fuso Truck and Bus Corporation – Daimler AG, Japan, Co-author: Lukas Walter, AVL List GmbH, Austria

15:45

5 years experience of eHighways for heavy vehicles in review

Christer Thoren, Project Manager Electric and Hybrid Powertrain Technology, Scania CV AB, Sweden

Innovative fuels

Kongress-Saal I (1st Floor)



HOLISTIC CONSIDERATIONS

Moderation: Wolfgang Maus, WM Engineering & Consulting GmbH

11:45

Electrifying the world – chances and challenges for sustainable energy carriers in the mobility sector

Prof. Dr. Kurt Kirsten, Head of Advanced Engineering and Innovation, APL Automobil-Prüftechnik Landau GmbH, Co-author: Dr. Wolfgang Warnecke, Shell Global Solutions (Deutschland) GmbH

12:15

Fueling clean transport to 2025+: update of JEC well-to-wheel (WTW) methodology for comparing alternative fuels and vehicle options to 2025+

Dorothee Lahaussais, Manager Fuels & Energy, Toyota Motor Europe NV/SA, Belgium, Co-authors: Heiko Maas, Ford-Werke GmbH, Heather Hamje, Concawe, Belgium, Laura Lonza, European Commission / Joint Research Centre, Italy

12:45

A holistic environmental balance in the conflict between development periods, use profiles and methodology.

Lea Schwarz, Ph.D. Student, Co-authors: Prof. Dr. Michael Bargende, both Institute for Internal Combustion Engines and Automotive Engineering, University of Stuttgart, Stefan Dreyer, Ulrich Baretzky, Wolfgang Kotschek, Dr. Florian Bach, all AUDI AG



APPLICATION OF SYNTHETIC FUELS

Moderation: Prof. Dr. Georg Wachtmeister, TU Munich

14:45

Potential of dimethylether as an alternative diesel fuel for a CO₂ sustainable powertrain solution

Dr. Herwig Ofner, Project Manager R&D, Co-author: Alexander Morozov, both AVL List GmbH, Austria, **Dr. Jost Weber**, Technical Manager, DENSO AUTOMOTIVE Deutschland GmbH, Co-authors: Takamasa Yokota, Satoru Sasaki, both DENSO Corporation, Japan

15:15

OME in a CI engine – a concept for CO₂ neutrality and ultra-low pollutant emissions

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

15:45

Potential of the sustainable C1 fuels OME, DMC, and MeFo for particle-free combustion in SI and CI engines

Dr. Martin Härtl, Senior Engineer, Co-authors: Dominik Pélerin, Patrick Dworschak, Andreas Stadler, Sebastian Blochum, Kai Gaukel, Prof. Dr. Georg Wachtmeister, all Institute of Internal Combustion Engines, TU Munich

Presentations

parallel sessions

**Wednesday,
28 February 2018**



Breaks

10:00 Coffee break

12:10 Lunch

14:30 Coffee break

PC engine technology

Auditorium (Basement)



MIXTURE FORMATION AND COMBUSTION

Moderation: Dr. Thomas Wintrich, Robert Bosch GmbH

09:00

Droplet stream impact injectors for novel combustion processes in Otto and diesel engines

Prof. Dr. Dr. Franz Durst, CEO, Co-author: Mathias Etzold, both FMP Technology GmbH

09:30

Lean combustion, EGR or gHCCI at high load: challenging tasks in the 0D/1D engine simulation

Dr. Michael Grill, Head of Department 0D/1D Simulation, Co-authors: Dr. Mahir-Tim Keshin, both Research Institute of Automotive Engineering and Vehicle Engines Stuttgart (FKFS), Aleksandar Fandakov, Sebastian Hann, both Institute for Internal Combustion Engines and Automotive Engineering, University of Stuttgart



DIESEL HYBRID

Moderation: Prof. Dr. Helmut Eichlseder, TU Graz

13:30

48V diesel hybrid: a strong combination for improved real-world fuel economy and driving performance?

Sebastian Barth, Project Engineer, Co-authors: Jörg Böttcher, Dr. Michael Fischer, all Honda R&D Europe (Deutschland) GmbH

14:00

Diesel hybrid powertrains – lowest exhaust emissions, minimum CO₂ and fun-to-drive

Dr. Joschka Schaub, Team Leader, Co-authors: Dr. Christoph Menne, Matthias Kötter, Thomas Körfer, all FEV Europe GmbH



CV engine technology

Forum (Ground Floor)



GAS ENGINES – TECHNOLOGY & APPLICATION

Moderation: Dr. Peter Heuser, FEV Group GmbH

09:00

New engines for future emissions requirements

Martial Suchet, Sales Director Gas Engines, Liebherr Machines Bulle S.A., Switzerland

09:30

Commercial natural gas vehicles: tomorrow's engine technologies for most stringent NO_x and CO₂ targets

Anton Arnberger, Technical Expert – Commercial Gas Engine, Co-authors: Gernot Hasenbichler, both AVL List GmbH, Austria, Dr. Stefano Golini, FPT Industrial S.p.A – Powertrain R&T, Italy, David Mumford, Westport Fuel Systems Inc., Canada

ENGINES – AN INTERNATIONAL PERSPECTIVE

Moderation: Michael Aschaber, STEYR MOTORS GmbH

13:30

Efficient diesel engines for light-duty commercial vehicles with a wide range of applications and a strong customer focus

Andreas Bug, Head of Department Light Duty Engines for Commercial Vehicle, Co-author: Alexander Lienert, both MAN Truck & Bus AG

14:00

Diesel-powered heavy-duty vehicles in Japan: latest emission regulations and responding technologies, fuel economy standards, and challenges for alternative fuels

Toshio Ichimasa, Executive, ISUZU Motors Limited, Japan

Innovative fuels

Kongress-Saal I (1st Floor)



BRIDGE TECHNOLOGIES

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

09:00

Options for de-carbonization of future transport

Dr. Andreas Kolbeck, Technology Expert Powertrain Trends, Co-authors: Dr. Wolfgang Warnecke, Dr. Christoph Balzer, Dr. Karsten Wilbrand, all Shell Global Solutions (Deutschland) GmbH

09:30

Zero-emission logistics and hydrogen refilling stations in Switzerland – illustrated by the example of Coop

Dr. Philipp Dietrich, CEO, H2 Energy AG, Switzerland



APPLICATION AND SUPPLY OF SYNTHETIC FUELS

Moderation: Dr. Werner Willems, Ford Forschungszentrum Aachen GmbH

13:30

e-fuels – a central module for future engine design?

Lars Hentschel, Manager Advanced Gasoline Engines, Co-authors: Dr. Karsten Michels, Prof. Dr. Thomas Garbe, Martin Hönig, all Volkswagen AG

14:00

Sustainable methanol-based fuel from CO₂ and electricity: economic and regulatory perspectives

Benedikt Stefánsson, Director of Business Development, Carbon Recycling International (CRI), Iceland



ACCOMPANYING EXHIBITION

EXHIBITORS 2017

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- Zapp Materials Engineering GmbH
- Zipper-Technik GmbH

EXPERTS' OPINIONS ON THE INTERNATIONAL ENGINE CONGRESS

“Outstanding congress with fundamental input regarding the transition of mobility!”

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

“What makes the International Engine Congress so special is the topicality of the subjects, the presentation of the importance of fuels and the great solutions for the internal combustion engine!”

Prof. Dr. Peter Gutzmer, Schaeffler AG

“Top moderation, top neutrality and quality of the presentations!”

Dr. Götz Hartmann, MAGMA Gießereitechnologie GmbH

“The congress offers content and quality and overall is a worthwhile event.”

Gudmund Smedler, Johnson Matthey Plc



EXHIBITION AND SPONSORSHIP

WHO SHOULD BECOME AN EXHIBITOR

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.

We are happy to inform you about the various presentation opportunities available:
www.enginecongress.com/exhibition

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Kongresshaus Baden-Baden
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Phone +49 7221 304-0
www.kongresshaus.de

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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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ey@baden-baden.com

Please make your reservation by 30 January 2018 at the latest.

TERMS & CONDITIONS

No cancellation charge is due if registration is canceled by
29 January 2018. Cancellations made after that date will incur
a charge of 35 % of the registration fee. For cancellations made
after 5 February 2018 the full registration fee is payable.
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
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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

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I hereby register for the congress. I agree to the terms and conditions and accept that my registration is binding.

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First name

Acad. Titel

Company / Institute

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 27 February 2018

☐ 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

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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.

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