Science for a moving society

PROGRAMME · SPRING 2026

The FVV Transfer + Networking Event

25 – 27 March 2026

BONN · GERMANY

Collective intelligence – FVV members

Empowering a moving society – Participating research and technology (RTD) performers

Science for a moving society

Transfer + Networking

+ Industrial Collective Research (IGF) has a particular commitment to the transfer of knowledge. It empowers companies to meet the requirements of social responsibility and sustainable development and to address the associated technological change by solving common R&D issues on a pre-competitive, science-based approach. This unique collaboration bridges the gap between basic research and industrial application. The results are available to all interested parties and form the basis for individual adaptations and further development in the companies.

+ FVV organises open-topic research along the value chains, bringing together companies with the same interests regardless of size and economic power. We network bright minds and benefit from their knowledge and experience. At FVV manufacturers and suppliers, developers and scientists, leading industrial engineers, renowned academic researchers and excellent young talents meet on a regular basis, thus creating mutual understanding.

Ideas sometimes need time and a prolific place to grow.

Here at the FVV Transfer + Networking Events you will find both.

Event Schedule

Maritim Hotel Bonn · Kurt-Georg-Kiesinger-Allee 1 · 53175 Bonn, Germany

Wednesday 25 March 2026
FVV Committee Meetings

EXPERT GROUPS, RESEARCH COMMITTEE
12:00 – 18:00 4

Thursday 26 March 2026
Information Sessions

Session 1
SYSTEMS, COMPONENTS
09:00 – 17:30 5-8

Session 2
TURBOMACHINERY
09:00 – 16:30 9-11

10:30 – 11:15 Coffee Break · **12:45 – 14:00** Lunch Break · **15:30 – 16:00** Coffee Break

EVENING RECEPTION
19:00 – 23:00 8

Friday 27 March 2026
FVV Committee Meetings

EXPERT GROUPS, RESEARCH COMMITTEE
09:30 – 18:00 12

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REGISTRATION & CONTACT 14

EXPERT GROUPS, RESEARCH COMMITTEE

Wednesday · 25 March 2026

The committee meetings are **for members of the FVV only**. FVV members will receive the related agendas and documents prior to the meetings.

12:00 Expert Group Electric Motors

Carsten Weber (Ford-Werke GmbH)
Jana Müller (FVV eV)

12:00 Expert Group Energy Infrastructure & Storage

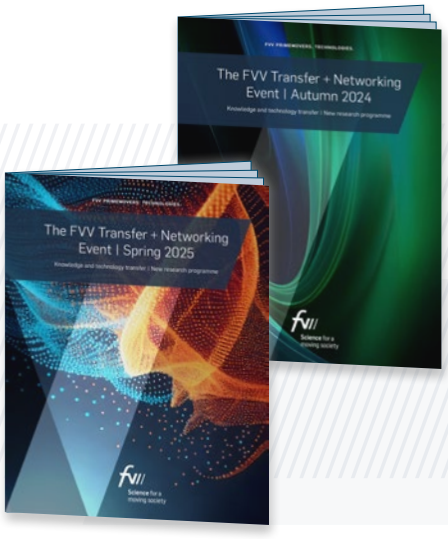
Hans-Jürgen Hitz (Robert Bosch GmbH)
Ralf Thee (FVV eV)

16:00 Research Committee

Dr Andreas Kufferath (Robert Bosch GmbH)
Martin Nitsche (FVV eV)

FVV Publications

The FVV as a transfer platform provides continued exchange between science, industry and society with reports from the project world, transfer + networking events and a newsletter.



www.fvv-net.de/en
→ Transfer | Projects

www.fvv-net.de/en
→ Transfer | Downloads | Magazine

Information Session 1

SYSTEMS, COMPONENTS

Thursday · 26 March 2026

09:00 Keynote

BASF's Path Towards Net Zero

SPEAKER Dr Kai Ehrhardt (BASF SE)

10:00 GHG-neutral European Energy System

Optimisation of the complete European energy system to achieve GHG neutrality as early as possible, with a minimum of cumulated GHG emissions for minimum costs

PROJECT 1526 · Orientation Studies · EG Energy Infrastructure & Storage · Interim report

PRESENTER Dr David Bothe (Frontier Economics Ltd.)

RTDs Dr David Bothe (Frontier Economics Ltd.)
Dr Niels Jungbluth (ESU-services GmbH)
Prof Dr Albert Moser (RWTH Aachen, IAEW)
Prof Dr Thomas Kolb (DVGW-EBI)

COORDINATION Simon Hettig (Rolls-Royce Power Systems AG)
Hans-Jürgen Hitz (Robert Bosch GmbH)

SPONSOR FVV

10:30 Coffee Break

11:15 Modelling Approaches of Vehicle Induced PN / PM and Emission Reduction Strategies

PN / PM tailpipe simulation, evaluation of modelling approaches for brake and tyre induced particles and development of advanced control strategies

PROJECT 1499 · Emissions · EG Zero-Impact Emissions · Final report

PRESENTER Ferris Herkenrath (RWTH Aachen, tme)

RTD Prof Dr Stefan Pischinger (RWTH Aachen, tme)

COORDINATION Dr Frank Bunar (IAV GmbH)

SPONSOR FVV

11:45 Real Driving Data for Automotive Application

Real driving data and use cases for automotive powertrain development

PROJECT 1488 · Hybrids · EG Sustainable Powertrain Systems · Final report

PRESENTERS Ulf Kühne (TU Braunschweig, ivb)
Marcel Sander (TU Braunschweig, IfF)

RTDs Prof Dr Peter Eilts (TU Braunschweig, ivb)
Prof Dr Roman Henze (TU Braunschweig, IfF)

COORDINATION Christopher Grießhaber (SEG Automotive Germany GmbH)
Stefan Gottlieb (Robert Bosch GmbH)

SPONSOR FVV

12:15 Condensate Formation in Exhaust Systems

Surface condensation on exhaust gas conducting component surfaces under the influence of dynamic (cold start) operating conditions on a gasoline and diesel engine

PROJECT	1494 · Emissions · EG Sustainable Powertrain Systems · Final report
PRESENTERS	Prof Dr Thomas Koch (KIT Karlsruhe, IFKM) Prof Dr Dimosthenis Trimis (KIT Karlsruhe, EBI-VBT)
RTDs	Prof Dr Thomas Koch (KIT Karlsruhe, IFKM) Prof Dr Dimosthenis Trimis (KIT Karlsruhe, EBI-VBT)
COORDINATION	N.N.
SPONSOR	BMWE / IGF

12:45 Lunch Break

14:00 Power Density Increase of Hydrogen CI Engines

Increase of power density of a hydrogen CI engine within a closed working gas cycle

PROJECT	1493 · Fuels · EG Engines · Final report
PRESENTERS	Aristidis Dafis (Uni Magdeburg, IMS-EMA) Lukas Kniestedt (WTZ Roßlau gGmbH)
RTDs	Prof Dr Hermann Rottengruber (Uni Magdeburg, IMS-EMA) Dr Christian Reiser (WTZ Roßlau gGmbH)
COORDINATION	Dr Christian Schnapp (WinGD Ltd.)
SPONSOR	BMWE / IGF

14:30 Cold Start Optimisation for M-100 Methanol Engine

Investigation of internal engine measures to improve the cold start behaviour of a M-100 petrol engine for drives of passenger cars and light commercial vehicles

PROJECT	1492 · Fuels · EG Engines · Final report
PRESENTER	Prof Dr Frank Atzler (TU Dresden, IAD-LVAS) Prof Dr André Casal Kulzer (Uni Stuttgart, IFS)
RTDs	Prof Dr Frank Atzler (TU Dresden, IAD-LVAS) Prof Dr André Casal Kulzer (Uni Stuttgart, IFS)
COORDINATION	Prof Dr Thomas Garbe (VOLKSWAGEN AG)
SPONSOR	BMWE / IGF, FVV

15:00 Methanol Compatibility

Methanol compatibility of engine components and lubricants

PROJECT	1515 · Fuels · EG Engines · Final report
PRESENTER	Karin Engeländer (OWI Science for Fuels gGmbH)
RTDs	Dr Sangeetha Ramaswamy (OWI Science for Fuels gGmbH) Karolina Kumarasinghama (OWI Science for Fuels gGmbH)
COORDINATION	Dr Johann Wloka (Everllence SE)
SPONSOR	FVV

15:30 Coffee Break

16:00 CO_2 Reduction by Shorter Burn Duration

Well-founded investigations of innovative measures to reduce the burn duration in the diffusive burn-out phase of Diesel engines combustion in order to increase the combustion efficiency

PROJECT	1481 · Efficiency · EG Engines · Final report
PRESENTERS	Dr Sebastian Rieß (Uni Erlangen, FST) Shreyans Sakhare (RWTH Aachen, itv) Amanda Weaver (RWTH Aachen, tme)
RTDs	Prof Dr Stefan Pischinger (RWTH Aachen, tme) Prof Dr Heinz Pitsch (RWTH Aachen, itv) Prof Dr Michael Wensing (Uni Erlangen, FST)
COORDINATION	Dr Sascha Schönfeld (FEV Europe GmbH)
SPONSOR	FVV

16:30 CFD Simulation of Droplet Separators

Development and implementation of an experimentally validated 3D-CFD model for the simulation of the separation efficiency of droplet separators for fuel cell systems

PROJECT	1455 · Development Tools · EG Fuel Cells · Final report
PRESENTERS	Dr Stephan Boden (HZDR e.V.)
RTD	Dr Dirk Lucas (HZDR e.V.)
COORDINATION	Dr Michael Harenbrock (MANN+HUMMEL GmbH)
SPONSOR	FVV

Information Session 1
SYSTEMS, COMPONENTS
Thursday · 26 March 2026

17:00 Additively Manufactured High-pressure Components

Increasing the fatigue strength of additively manufactured high-pressure components

PROJECT	1487 · Materials Components · EG Materials Science & Recycling · Final report
PRESENTER	Prof Dr Anna Trauth (TU Darmstadt, IFSW-WM)
RTDs	Prof Dr Carsten Könke (MFPA Weimar) Prof Dr Anna Trauth (TU Darmstadt, IFSW-WM)
COORDINATION	Stefan Zimmermann (Woodward L'Orange GmbH)
SPONSOR	BMWE / IGF

17:30 End of the session

Evening Reception

Next to the challenging knowledge transfer, **networking** is at the heart of our event. We are looking forward to the traditional evening reception for all conference participants - because only together we can shape Science for a moving society.

Start 19:00
Maritim Hotel Bonn

Information Session 2

TURBOMACHINERY

Thursday · 26 March 2026

09:00 Keynote

(Together with Session 1 in **Hall Beethoven**)

BASF's Path Towards Net Zero

SPEAKER Dr Kai Ehrhardt (BASF SE)

10:00 GHG-neutral European Energy System

(Together with Session 1 in **Hall Beethoven**)

Optimisation of the complete European energy system to achieve GHG neutrality as early as possible, with a minimum of cumulated GHG emissions for minimum costs

PROJECT 1526 · Orientation Studies · EG Energy Infrastructure & Storage · Interim report

PRESENTER Dr David Bothe (Frontier Economics Ltd.)

RTDs Dr David Bothe (Frontier Economics Ltd.)
Dr Niels Jungbluth (ESU-services GmbH)
Prof Dr Albert Moser (RWTH Aachen, IAEW)
Prof Dr Thomas Kolb (DVGW-EBI)

COORDINATION Simon Hettig (Rolls-Royce Power Systems AG)
Hans-Jürgen Hitz (Robert Bosch GmbH)

SPONSOR FVV

10:30 Coffee Break

11:15 HT-Threshold Calculation Methods II

Advanced computational methods and testing technique for the evaluation of threshold and propagation behaviour of mechanically short cracks at different temperatures and frequency ranges

PROJECT 1520 · Materials · EG Turbo Machines · Interim report

PRESENTER Nico Bürger (TU Darmstadt, MPA-IfW)

RTDs Prof Dr Peter Gumbsch (Fraunhofer-IWM)
Prof Dr Matthias Oechsner (TU Darmstadt, MPA-IfW)

COORDINATION Julian von Lautz (MTU Aero Engines AG)

SPONSOR BMWE / IGF

11:45 Integrated Creep-fatigue Assessment

Generalization, extension and verification of damage accumulation approaches for an integrated assessment of realistic operation loads within FEM-Programs

PROJECT	1518 · Development Tools · EG Turbo Machines · Interim report
PRESENTER	Eike Blum (TU Darmstadt, MPA-IfW)
RTDs	Prof Dr Peter Gumbsch (Fraunhofer-IWM) Prof Dr Stefan Weihe (Uni Stuttgart, MPA) Prof Dr Matthias Oechsner (TU Darmstadt, MPA-IfW)
COORDINATION	Dr Martin Reigl (GE Vernova)
SPONSOR	BMWE / IGF

12:15 Simulation-Crack Behaviour Coarse Grain II

Optimization of the high-temperature crack behaviour assessment of coarse-grained materials

PROJECT	1521 · Development Tools · EG Turbo Machines · Interim report
PRESENTER	Anne Preuschoff (Uni Stuttgart, MPA)
RTDs	Prof Dr Stefan Weihe (Uni Stuttgart, MPA) Prof Dr Matthias Oechsner (TU Darmstadt, MPA-IfW)
COORDINATION	Markus Fried (MTU Aero Engines AG)
SPONSOR	BMWE / IGF

12:45 Lunch Break

14:00 Creep-fatigue Crack Behaviour of Welded Joints II

Assessment of flaws in welded joints in power plants under flexible operation II

PROJECT	1458 · Materials · EG Turbo Machines · Final report
PRESENTER	Dr Min Huang (Uni Stuttgart, MPA)
RTDs	Prof Dr Stefan Weihe (Uni Stuttgart, MPA) Prof Dr Matthias Oechsner (TU Darmstadt, MPA-IfW)
COORDINATION	Dr Shilun Sheng (Siemens Energy Global GmbH & Co. KG)
SPONSOR	AVIF

14:30 Flexible HP-Turbines

Aerothermal interaction mechanisms at the outer casing region of modern high pressure turbines

PROJECT	1447 · Development Tools · EG Turbo Machines · Final report
PRESENTER	Dominik Ade (TU Darmstadt, GLR)
RTDs	Prof Dr Heinz-Peter Schiffer (TU Darmstadt, GLR)
COORDINATION	Christoph Lyko (Rolls-Royce Deutschland Ltd & Co KG)
SPONSOR	DFG, FVV

Information Session 2
TURBOMACHINERY
Thursday · 26 March 2026

15:00 Fuel Cell Compressor Design

System efficiency optimal compressor design for PEM fuel cells in mobile applications

PROJECT	1439 · Development Tools · EG Turbo Machines · Final report
PRESENTERS	Simon Mertes (RWTH Aachen, tme) Simon Loerwald (RWTH Aachen, IST)
RTDs	Prof Dr Stefan Pischinger (RWTH Aachen, tme) Prof Dr Peter Jeschke (RWTH Aachen, IST)
COORDINATION	Dr Thomas Hildebrandt (NUMECA Ingenieurbüro GmbH & Co. KG)
SPONSOR	BMWE / IGF, FVV

15:30 Coffee break

16:00 Suction Sided Noise Emission of Radial Compressors

Development of prediction methods for the noise emission of centrifugal compressors in their suction line and derivation of guidelines for low-noise design

PROJECT	1508 · Development Tools · EG Turbo Machines · Final report
PRESENTER	Marius Geilich (RWTH Aachen, IST)
RTD	Prof Dr Peter Jeschke (RWTH Aachen, IST)
COORDINATION	Vera van Dinther (Everllence SE) Nicolai Ehlenbeck (Everllence SE)
SPONSOR	BMWE / IGF

16:30 End of the session

Evening Reception

Evening reception for all conference participants · **Start 19:00**
→ more information

EXPERT GROUPS, RESEARCH COMMITTEE

Friday · 27 March 2026

The committee meetings are **for members of the FVV only**. Participants will receive the related agendas and documents prior to the meetings by a separate invitation.

09:30 Expert Groups

Expert Group Sustainable Powertrain Systems
Thorsten Oberpenning (Rolls-Royce Power Systems AG)
Ralf Thee (FVV eV)

Expert Group Engines
Dr Christian Weiskirch (Traton R&D Germany)
Martin Nitsche (FVV eV)

Expert Group Fuel Cells
Dirk Weberskirch (Traton R&D Germany)
Jana Müller (FVV eV)

Expert Group Turbo Machines
Heinz Knittel (MTU Aero Engines AG)
Dirk Bösel, Matthias Zelinger (FVV eV)

Expert Group Zero-impact Emissions
Dr Frank Bunar (IAV GmbH)
Dr Markus Münz (VDMA Engines and Systems)

Expert Group Materials Science and Recycling
Dr Dieter Eppinger (SEG Automotive Germany AG)
Max Decker (FVV eV)

16:00 Research Committee

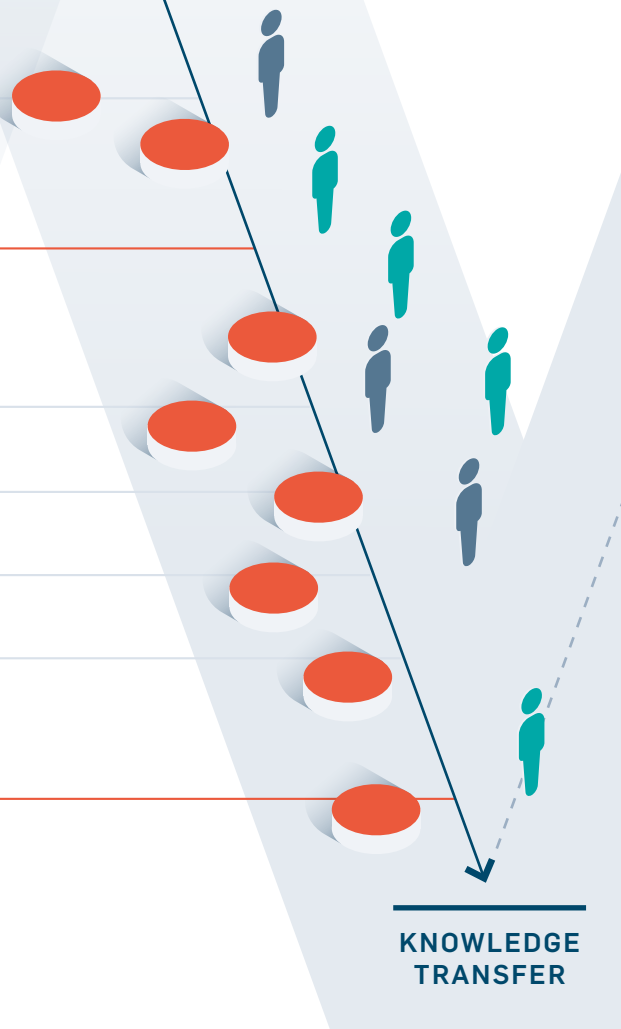
Dr Andreas Kufferath (Robert Bosch AG)
Martin Nitsche (FVV eV)

MAKE IT NEW: MAKING PROJECTS WORK

TOGETHER WE DEVELOP IDEAS FOR THE FUTURE

The second day of the transfer + networking event belongs to the FVV committees and the planning of future research.

For this purpose, specialists from the member companies meet in expert groups to identify common research needs and to design projects accordingly.



SYSTEM

Energy Infrastructure and Storage
Hans-Jürgen Hitz · Robert Bosch

Sustainable Powertrain Systems
Thorsten Oberpenning · Rolls-Royce Solutions

SUBSYSTEMS

Energy Conversion Systems

→ Engines
Dr Christian Weiskirch · Traton R&D Germany

→ Electric Motors
Carsten Weber · Ford-Werke

→ Fuel Cells
Dirk Weberskirch · Traton R&D Germany

→ Turbo Machines
Heinz Knittel · MTU Aero Engines

→ Zero-impact Emissions
Dr Frank Bunar · IAV

COMPONENTS

Materials Science and Recycling
Dr Dieter Eppinger · SEG Automotive Germany

To learn how we make projects work, please note the information on our research priorities and work structure in the Terms of Reference (ToR) document: **MAKE IT NEW – Science for a moving society.**

DATE AND VENUE

25 – 27 March 2026

Maritim Hotel Bonn
Kurt-Georg-Kiesinger-Allee 1
53175 Bonn, Germany
www.maritim.de

PARTICIPANT FEE

Conference registration fee
350 € (plus 19 % VAT)

Participants with FVV members discount
250 € (plus 19 % VAT)

Research institutions
can participate in the event free of charge with up to 5 persons (incl. lecturer). From the 6th person onwards, costs of 150 € (plus 19 % VAT) will be incurred.

The registration fee includes participation in the technical information sessions including conference documents and proceedings, lunch, coffee and snacks during breaks and access to the evening reception on 26 March 2026.

Conference languages
The conference language is German. All sessions are translated into English. Headsets are available for free.

GENERAL TERMS AND CONDITIONS

You may register online through the → **registration tool**. The closing date for registrations is **Friday, 13 March 2026**.

Participation can be cancelled free of charge until **Friday, 20 March 2026**. In case of cancellation after the deadline or unannounced non-participation the full participant fee will be charged.

Cancellations are to be made in writing (by e-mail, fax or standard mail). By registering you accept the general → **terms and conditions**. All participants will receive an electronic confirmation after the registration deadline. The invoice will be issued after the event.

HOTEL RESERVATIONS

We have arranged for a roomblock at ›Maritim Hotel Bonn‹ from 25 – 27 March 2026 at a preferential rate of 159 € (Classic incl. breakfast).

The closing date is **Wednesday, 28 January 2026**. The reservation code is ›FVV‹. Early booking is recommended.

→ **Booking Maritim Hotel Bonn**

ORGANISERS

The event is organised by

VDMA Academy GmbH
Lyoner Strasse 18
60528 Frankfurt / M., Germany
www.vdma-academy.eu

On behalf of

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Lyoner Strasse 18
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www.fvv-net.de

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PHOTO
S. 1 / S. 15: © MIDJOURNEY AI

Science for a moving society

INDUSTRIELLE GEMEINSCHAFTSFORSCHUNG

Innovative and sustainable research cooperations need a stable funding framework. Our projects are funded through contributions from public research funds – notably from the Industrial Collective Research (IGF) programme.

We would like to thank all of our sponsors and research partners for their fantastic suppport!

www.fvv-net.de