



FVV Newsletter 01/2022

The FVV is an organically grown innovation network. Here, globally operating manufacturers of power systems, fuel cells, vehicle / aircraft / industrial engines and turbomachines, as well as their suppliers and development service providers, conduct together with universities and other research institutions pre-competitive, collective research on future technologies. The goal was and is to continuously develop 'prime movers' as efficient energy converters in order to operate them in a cleaner and more sustainable way in the future with an increasing share of renewable energy sources - to the benefit of society, climate, environment and industry. We have many new ideas for the future. You can read about some of them here, others we will be happy to present to you in our own or in cooperation events. Please be assured - we are very much looking forward to sharing ideas with you. **#staytogether**

CONTINUITY IN AN ERA OF TRANSFORMATION

The FVV meets the challenges of the transformation through continuity. Below, the President Prof. Dr. Peter Gutzmer and Managing Director Dietmar Goericke explain how we live transformation at the FVV - both in terms of the scope of our work and its organisation.

Networked action for zero emissions



Climate protection is a global task - as is the development of competitive products for the world market. Collaborating with regional and international partners is both a sensible and inspiring way to bring new technologies to market more quickly. For that reason, FVV builds on a large, collective network to pave the way for a zero-emissions future in energy conversion.

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In the middle of a twin transformation



For FVV Managing Director Dietmar Goericke, the vision of climate neutrality is at the core of collective research. This vision can only be achieved through the use of CO2-neutral energy sources and efficient energy converters. FVV is expanding its network and deploying modern digital methods such as artificial intelligence to make this happen.

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THE PEOPLE BEHIND MODERN RESEARCH



The virtues of an engineer

Facts over feelings // For a logical and clearheaded engineer like Ekkehard Pott, this statement is a way of life. So getting all of Volkswagen's petrol and diesel powertrains ready for the forthcoming introduction of the Euro 7 standard is the perfect job for him. He adopts a level-headed approach to limit values and technologies; one must match the other, without question. In conversation, Pott is focussed at all times, not once veering off topic. He says little about himself, but speaks readily about production series, technology and physical interconnections.

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It's all about the system: FVV researches sustainable hybrid powertrains



Hybrid powertrains enable quick CO2 savings in road transport by combining an electric motor and a combustion engine - provided that the powertrain system of such a vehicle is designed from the outset to operate as efficiently as possible. In the FVV's new hybrid research programme, engineers are working across company boundaries to develop the methods and technologies needed to achieve this.

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New hydrogen engine alliance founded



Industry and research work closely together in new initiative // The hydrogen engine can make an important contribution to achieving climate goals

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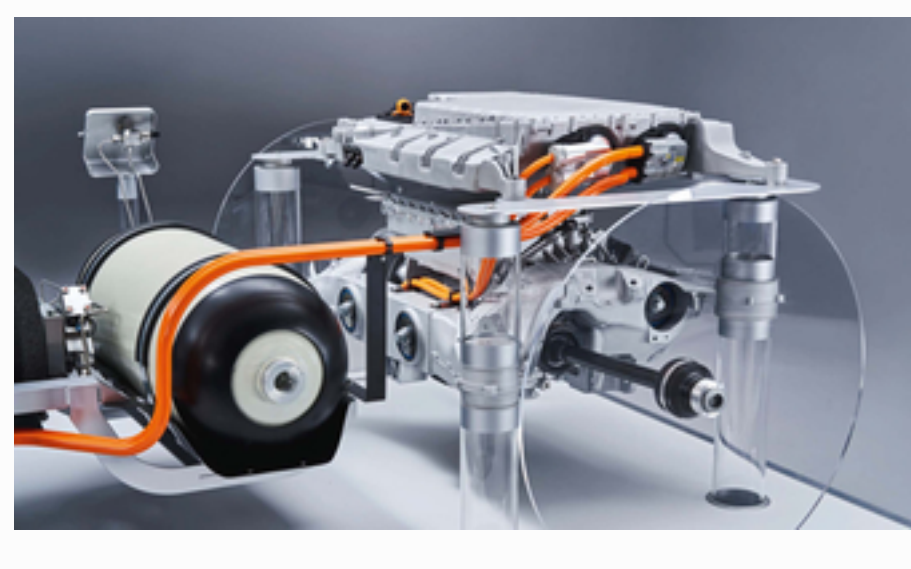
Particulate emissions of alternative fuels – OWI and KIT develop a method to analyse and predict PM reduction potential



In a current research project contracted by FVV, OWI Science for Fuels gGmbH and the Institute of Internal Combustion Engines at the Karlsruhe Institute of Technology intend to develop a new method to quickly and reliably analyze and predict the potential for reducing particulate emissions of alternative fuels and fuel blends // If successfully developed, the method could be incorporated into fuel standards

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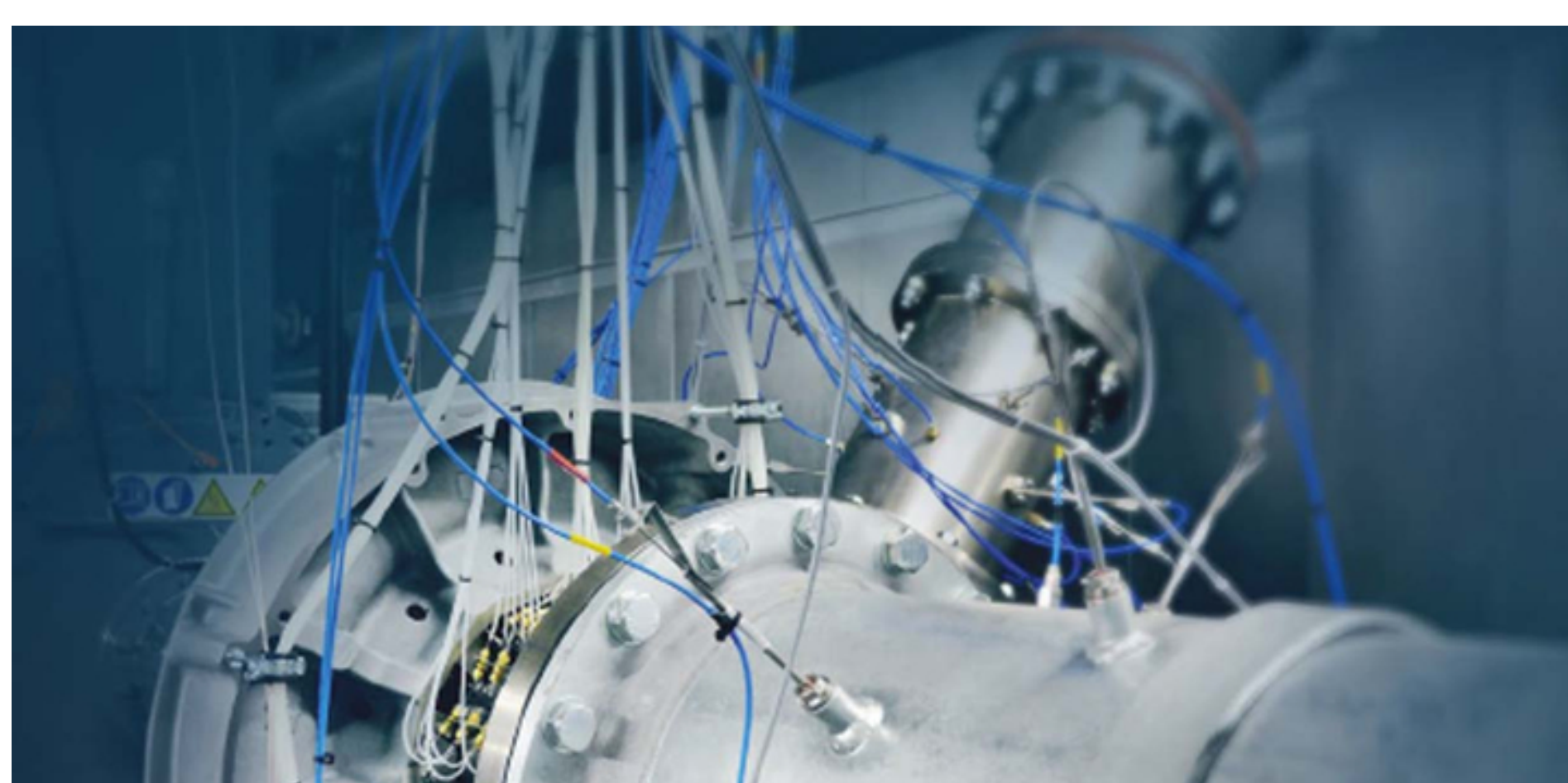
Programmed for success



Hybrid powertrains and hydrogen as energy sources are crucial elements of the journey to climate neutrality. But that's not all – they are also central to two new FVV research programmes, encompassing numerous projects that are designed to provide scientifically sound answers to some of the most pressing questions of our era.

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RESEARCH REPORTS



Turbocharging progress | Centrifugal Compressor Research

Some machines are hidden away so well that they are barely noticed by the public – despite playing a decisive role in the progress of an industrialized society. This is the fate of the centrifugal compressor. However, Europe is the global technological leader in industrial centrifugal compressors. And leading positions also have to be defended. Industrial Collective Research is a proven instrument that lays the groundwork for this. The Centrifugal Compressor Research expert group founded within FVV more than 50 years ago successfully coordinates this collective research – laying an important foundation for an industrial country that is switching its energy supply to renewable sources.

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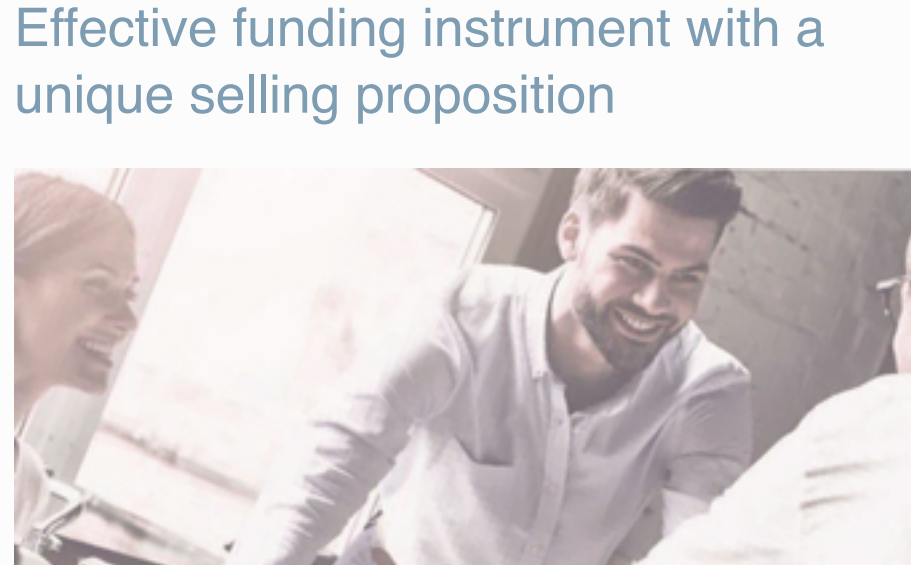
THEMIS News

FVV 2022 Spring Conference:
Information sessions & committee meetings

THEMIS Calendar:
FVV meetings in March/April

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Industrial Collective Research (IGF): Effective funding instrument with a unique selling proposition



Industrial Collective Research (IGF) has successfully facilitated pre-competitive, cross-industry and transfer-oriented cooperation between industry and science in Germany since 1954. This is confirmed by a BMWI from Kienbaum Consultants International GmbH, the results of which were published by the Federal Ministry for Economic Affairs and Climate Action (BMWK) at the beginning of January 2022.

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The AiF annual magazine ZOOM 2020/2021 shows the contribution of IGF to solving the great challenges of our time



How did SMEs cope with the Corona crisis? How does the AiF support SMEs in making contributions to solving the major challenges of our time? What ideas does politics have to strengthen SMEs with an affinity for research? The AiF annual magazine ZOOM 2020/2021 answers these and other questions in a spotlight-like manner.

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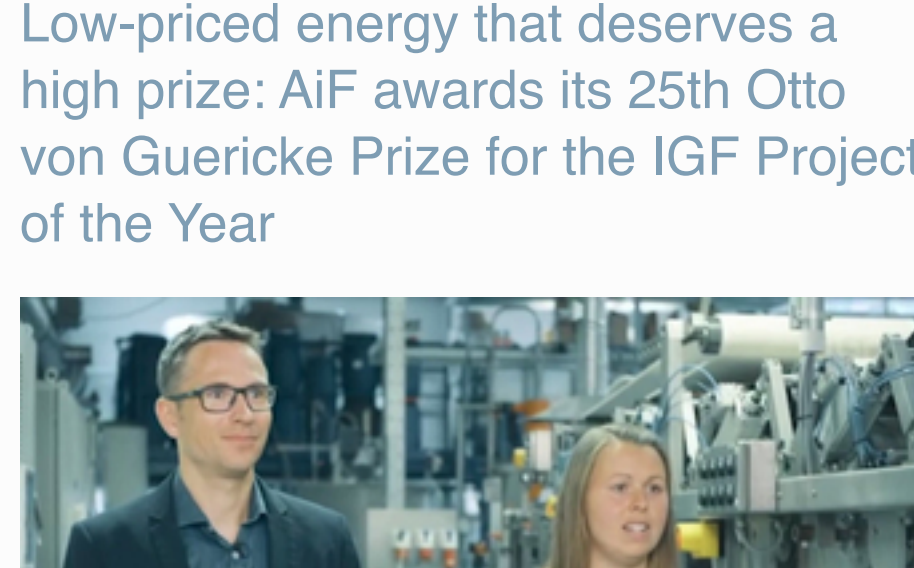
Results of the AiF Peer Reviewer Election 2021



At the AiF (Arbeitsgemeinschaft Industrieller Forschungsvereinigungen / Federation of Industrial Research Associations), around 200 honorary experts ensure that only the best projects in open-themed Industrial Collective Research (IGF) are funded by the Federal Ministry for Economic Affairs and Climate Protection (BMWK).

[Learn More](#)

Low-priced energy that deserves a high prize: AiF awards its 25th Otto von Guericke Prize for the IGF Project of the Year

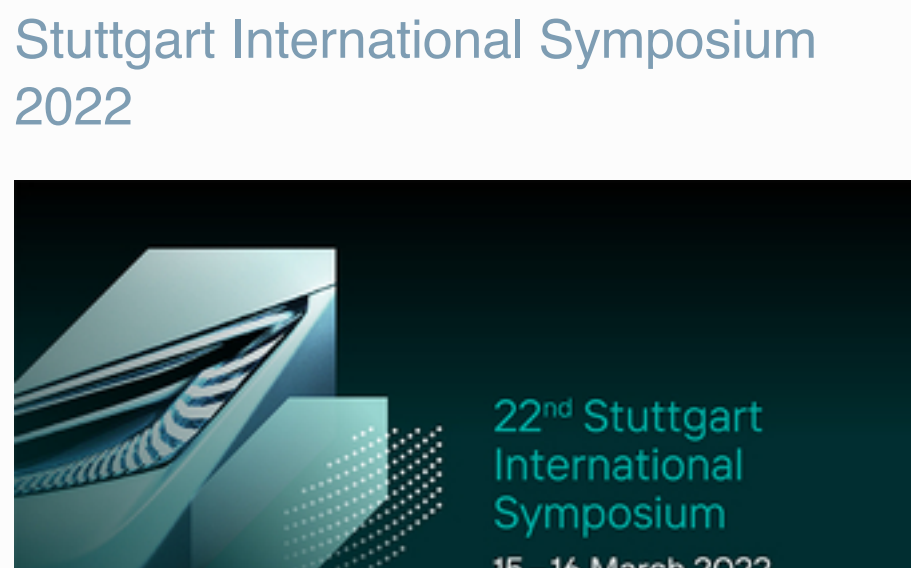


The team "Power distributor from the paper machine" wins the Otto von Guericke Prize for the IGF Project of the Year // This year's finalists had convinced the jury with a particularly high gain in knowledge, but also with the great economic significance of the results for medium-sized companies

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EVENTS

15 - 16 March 2022 | Online Conference Stuttgart International Symposium 2022

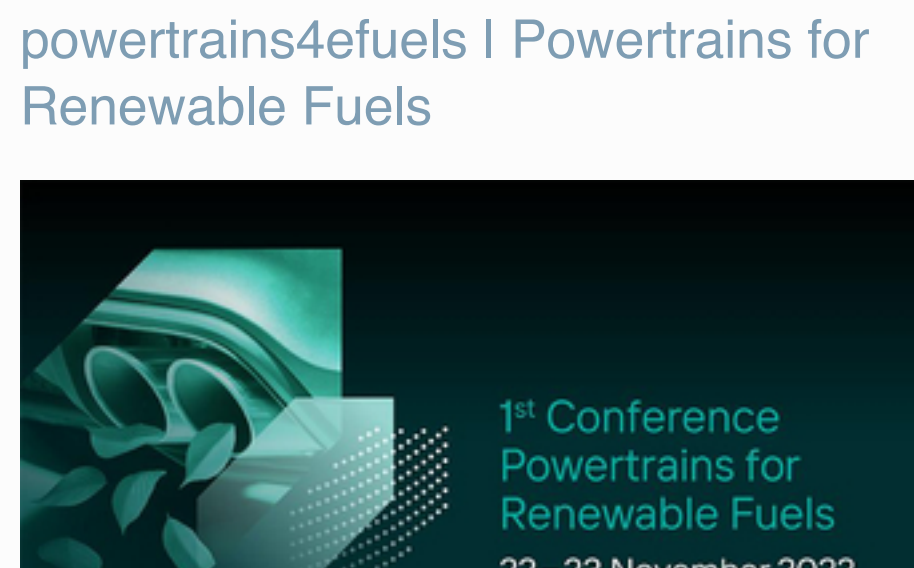


For many years, the **Stuttgart International Symposium** on Automotive and Engine Technology has been one of the largest specialist congresses on the subject of vehicle and engine development in Europe and one of the most important industry meetings in the automotive industry.

The two-day **22nd International Stuttgart Symposium** features 100 scientific presentations and discussion in six different virtual rooms, exciting keynotes from automotive industry executives, and a panel discussion on "Fit for 55 - How to make it?" with top-class participants. Let us surprise you!

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22 - 23 November 2022 | Stuttgart powertrains4fuels | Powertrains for Renewable Fuels

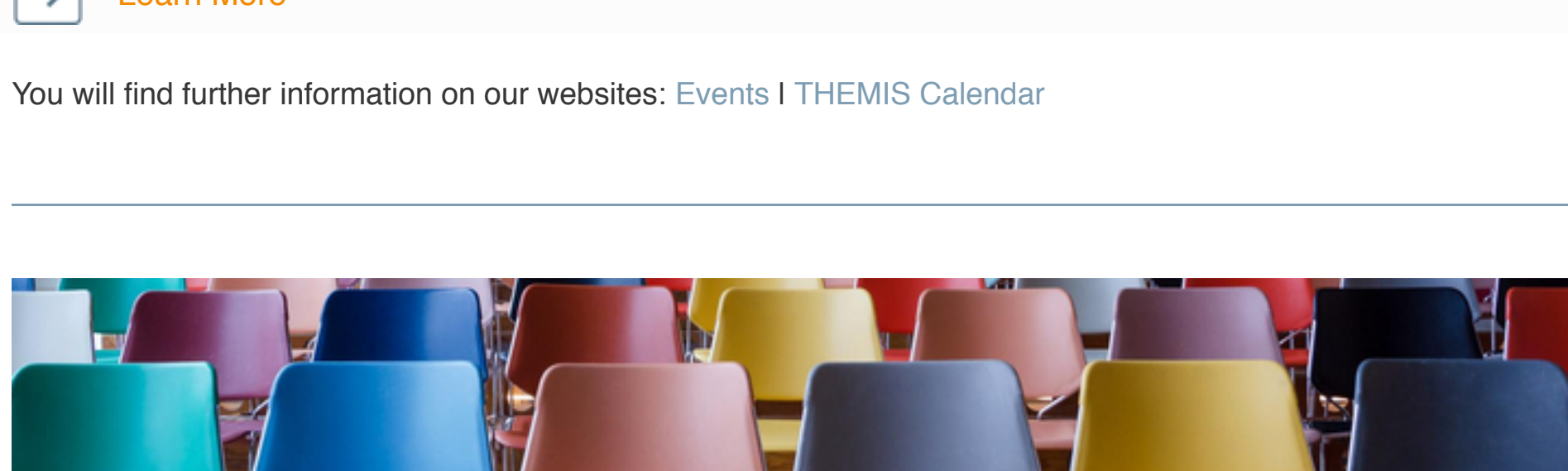


CO2-neutral eFuels and also CO2-free fuels such as H2 and NH3 have great potential for new powertrain developments. For the rapid reduction of CO2 emissions of the existing vehicle fleet, eFuels offer an impressive solution.

The **conference Powertrains for Renewable Fuels** is aimed at participants from industry, science and politics who are interested in challenges and solutions for CO2-neutral mobility using renewable fuels.

[Learn More](#)

You will find further information on our websites: [Events](#) | [THEMIS Calendar](#)



LAST BUT NOT LEAST

As soon as the situation allows, probably from April onwards, the upcoming **meetings of the project user committees (PA)** in the ongoing research programme are once again back to being held **face-to-face**. This does not mean that we will forego any safety standards. Due to the strictly limited number of participants per meeting room here in Frankfurt in the VDMA building as well as at the RTD performers, it is all the more important that you **have registered your participation in THEMIS by the registration deadline**. Unfortunately, persons who have not registered cannot be admitted. **The FVV team looks forward to meeting you all in person and thanks you for your kind support!**

For questions regarding your newsletter subscription, please contact Petra Tutsch or Stephanie Smieja at newsletter@fvv-net.de