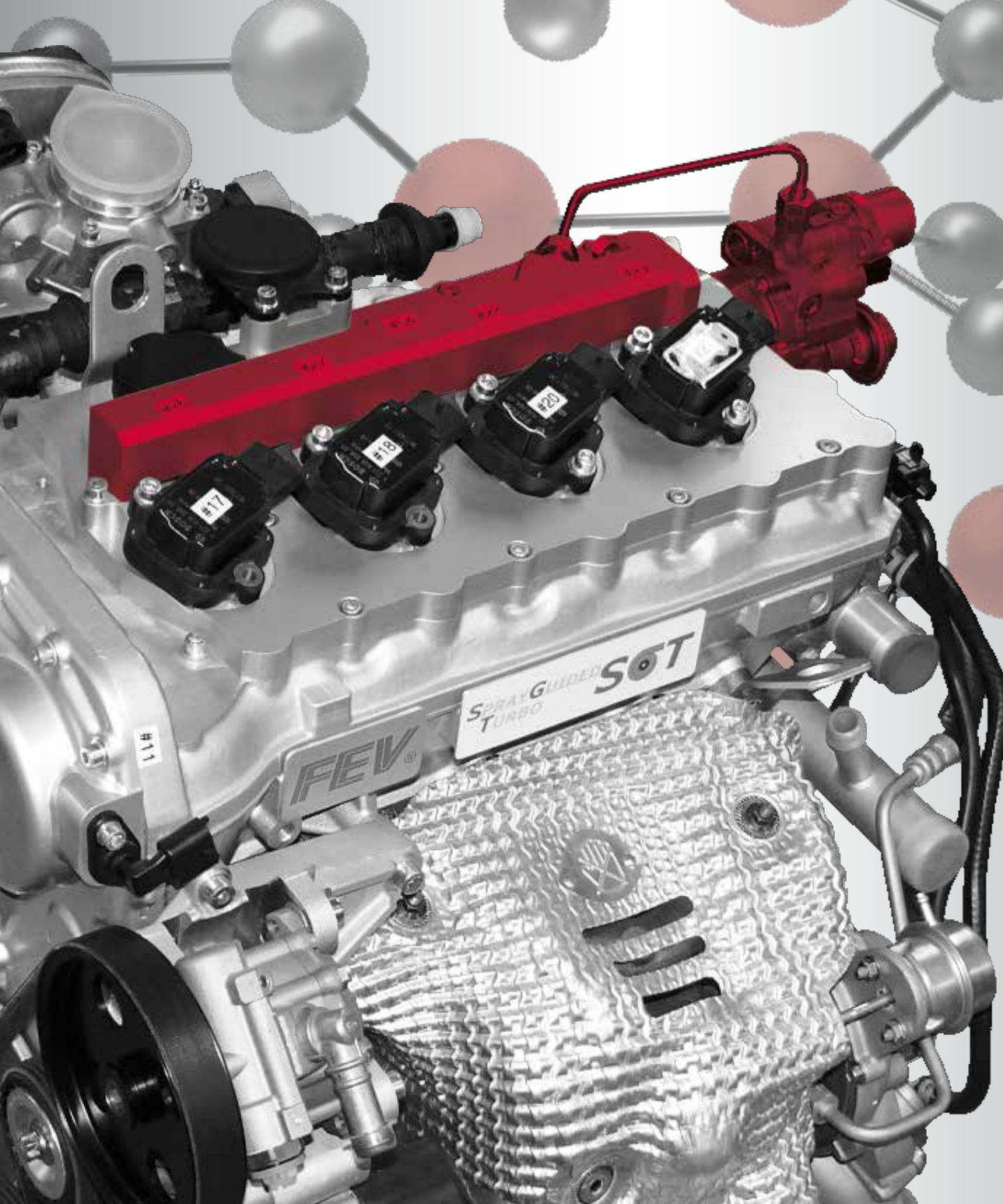


# Advanced Fuels for Sustainable Mobility



VISIT OUR INTERNATIONAL CONFERENCE

NOVEMBER 4<sup>th</sup> -5<sup>th</sup>, 2014 AT NÜRBURGRING



# Advanced Fuels For Sustainable Mobility

Dear Colleagues,

Fuels for a sustainable mobility – this is a vital challenge for the automotive industry and for the fuel and refining industry. Advanced engine technologies and fuel formulations must jointly contribute to achieve future CO<sub>2</sub> emission targets and to ensure long term availability of economic fuel.

Combustion engines and fuels are a combined system. The „Advanced Fuels for Sustainable Mobility“ conference brings both of these unique worlds into focus, reviewing the state of the art, discussing new technologies and fuels, and

highlighting emerging strategies.

You can register for this conference at the following website: [www.hdt-essen.de](http://www.hdt-essen.de) or you can contact [j.lupczyk@hdt-essen.de](mailto:j.lupczyk@hdt-essen.de) with any queries.

We look forward to seeing you in Nürburg for an exclusive and interesting conference!

WITH BEST REGARDS  
DR. PHILIPP ADOMEIT,  
EXECUTIVE ENGINEER  
THERMODYNAMICS



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## SCIENTIFIC COMMITTEE MEMBERS

FRITZ STEINPARZER  
BMW



DR. PETER SAUERMAN  
BP



DR. HANS-OTTO HERRMANN  
Daimler

DAIMLER

DR. MARKUS SCHWADERLAPP  
FEV



DR. CHRISTOPH TEETZ  
MTU



DR. FLORIAN KREMER  
RWTH Aachen University



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Shell



DR. TOBIAS LÖSCHE-TER HORST  
Volkswagen

VOLKSWAGEN  
AKTIENGESELLSCHAFT

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# Program

## TUESDAY, NOVEMBER 4<sup>th</sup>

### OPENING & KEYNOTE PRESENTATIONS

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- 09:00 **Welcome and opening**, Dr. Markus Schwaderlapp, FEV GmbH
- 09:15 **Outlook and challenges for future fuels**, Dr. Heather D.C. Hamje,  
Dr. Robin Nelson, Concawe
- 09:35 **Advanced fuels – a never ending story?**, Dr. Tobias Lösche-ter Horst,  
Volkswagen AG
- 09:55 **Coffee break**

### MOBILITY AND FUELS I

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- 10:30 **Sustainability evaluation as a key factor for decision-making and marketing**,  
Peter Saling, BASF SE
- 11:00 **Audi e-fuels: energy revolution in tank**, Reiner Mangold, Audi AG
- 11:30 **Perspective on biofuels: sustainable penetration for secured greenhouse gas benefits**,  
Dr. Muriel Desaegeer, Dr. Dorothee Lahaussais, Toyota Motor  
Europe, Ausilio Bauen, E4Tech Ltd.
- 12:00 **Lunch break**

### MOBILITY AND FUELS II

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- 13:30 **The unification of sustainability and quality demand in the development of new fuels**,  
Dr. Thomas Garbe, Dr. Gerald Herding, Volkswagen AG
- 14:00 **Marine fuel - quo vadis?**, Dr. Udo Schlemmer-Kelling, FEV GmbH
- 14:30 **Coffee break**

### GASEOUS FUELS

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- 15:00 **LNG for propulsion of off-highway applications**, Dr. Wolfgang Fimml, Dr. Philippe Gorse,  
Dr. Christoph Teetz, MTU Friedrichshafen GmbH
- 15:30 **The new euro VI natural gas engine for Mercedes-Benz medium duty commercial vehicles**, Dr. Marko Weirich, Michael Benz, Dr. Kai Hoffmann,  
Dr. Hans-Otto Herrmann, Daimler AG
- 16:00 **Extreme downsizing of CNG engines – opportunities and challenges**,  
Dr. Ulrich Kramer, Dr. Harald Stoffels, Rolf Klein, Oliver Berkemeier, Carsten Weber,  
Ford Werke GmbH
- 16:30 **Future directions in natural gas injection**, Harry L. Husted, Dr. Sebastian Schilling,  
Dr. Guy Hoffmann, Jean-Francois Preuhs, Joseph Kazour, Delphi
- 17:00 **Plenary discussion**
- 19:30 **Dinner and evening event**

# Program

## WEDNESDAY, NOVEMBER 5<sup>th</sup>

### ADVANCED FUELS AND BIO FUELS I

- 08:30 **Tailor-made next-generation biofuels: sustainable fuels for the mobility of the future**, Dr. Florian Kremer, RWTH Aachen University
- 09:00 **Overcoming limitations of current bio-gasoline and bio-diesel**, Ronan Rocle, Global Bioenergies S.A.
- 09:30 **Improved diesel fuel quality with premium biocomponent**, Markus Honkanen, Neste Oil
- 10:00 **Coffee break**

### ADVANCED FUELS AND BIO FUELS II

- 10:30 **Alternative fuels, especially GTL, in a modern euro-VI heavy duty system**, Hendrik Kofahl, Jürgen Lehmann, Dr. Olaf Röhl, Daimler AG
- 11:00 **Investigation of alternative fuels on a HD diesel engine equipped with a variable valve actuation system**, David Kovacs, Prof. Dr. Peter Eilts, Technical University Braunschweig
- 11:30 **Renewable diesel from tall oil - forest full of new opportunities**, Ville Vauhkonen, Sari Mannonen, UPM-Kymmene Corporation
- 12:00 **Effect of HVO fuel in Volvo car engines and vehicles on emissions, cold start operability and durability**, Monica Johansson, Lisa Jacobsson, Volvo Car Corporation, Tuukka Hartikka, Neste Oil
- 12:30 **Lunch break**

### ADVANCED FUELS & ADDITIVES

- 14:00 **Fuel requirements of future spark ignition engines**, Prof. Gautam Kalghatgi, Saudi Aramco
- 14:30 **The effect of fuel properties on knocking performance of boosted downsized engines**, Masaharu Kassai, Taisuke Shiraishi, Atsushi Teraji, Nissan, Shaun Wakefield, Tor Kit Goh, David Doyle, Karsten Wilbrand, Masahiko Shibuya, Shell
- 15:00 **Investigation of fuel and engine oil effect on abnormal combustion in turbocharged direct injection - spark ignition engines**, Satoshi Hirano, Koichi Nakata, Minoru Yamashita, Kosuke Fujimoto, Katsuyoshi Kato, Toyota Motor Corporation
- 15:30 **Benefits of fuel performance additive**, Dr. Ludwig Völkel, BASF SE
- 16:00 **Closing remarks**, Dr. Philipp Adomeit, FEV GmbH

### ORGANIZER

FEV GmbH in cooperation with  
HAUS DER TECHNIK

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[www.hdt-essen.com](http://www.hdt-essen.com)



### CONTACT

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### CONFERENCE FEE

€ 1.095,00  
The conference is not subject to value added tax. The fee covers all related documents to the event, lunch, beverages and the evening event.

### PAYMENT TYPE

Via transfer, upon receiving invoice or by credit card (Master, Visa, American Express, Diners Club) Participants with billing addresses from outside of Germany, Austria and Switzerland, please use credit cards for payment.

### CONFERENCE LANGUAGE

English

### LOCATION

Dorint am Nürburgring | Grand-Prix-Strecke  
53520 Nürburg, Germany  
phone +49 2691 30 90  
[www.dorint.com](http://www.dorint.com)

# Registration

## Advanced Fuels for Sustainable Mobility



### Registration

**online:** [www.hdt-essen.de/anmeldung](http://www.hdt-essen.de/anmeldung)  
**by email:** [anmeldung@hdt-essen.de](mailto:anmeldung@hdt-essen.de)  
**by fax:** +49 201 1803-280  
**by post:** Haus der Technik e.V., 45117 Essen

### Conference fee: EUR 1.095,-

The conference is not subject to value added tax. The fee covers all related documents to the event, lunch, beverages and the evening event.

Event ID: H070-11-133-4

Surname

Name

Title

Function

Department

Field of Operation

Company/Institute

Street/P.O. Box

Postal Code, City, Country

Telephone

Fax

Mobile Number

Email

Billing Address (if different from above)

Participants with billing addresses from outside of Germany, Austria and Switzerland, please use below credit cards for payment.

Visa  Mastercard  American Express  Diners Club

Name on Card

Credit Card Number

Check Digit

Valid Until

Date

Signature

### Location

Dorint am Nürburgring | Grand-Prix-Strecke  
53520 Nürburg  
[www.dorint.com](http://www.dorint.com)

### Registrations

have to be submitted in writing including surname and first name, title, company address/billing address, department, phone number, fax, email and indicated event number. Registration confirmations and invoices will be sent by post. Please wire the conference fee under indication of the invoice number upon receipt of invoice.

After receiving your online-registration, a compulsory registration confirmation/invoice will be sent to you by post within 7 days.

In case of short notice registrations (within one week prior to the beginning of the event) you will receive the registration confirmation by email or fax.

### Hotel reservation

[www.hdt-essen.de/hotel](http://www.hdt-essen.de/hotel)  
Contact Person: Nuri Grohnert  
Phone: +49 201 1803-322  
Fax: +49 201 1803-276  
Email: [hotel@hdt-essen.de](mailto:hotel@hdt-essen.de)

### General information

Contact Person: Andrea Wiese or Katrin Klein  
Phone: +49 201 1803-1  
Fax: +49 201 1803-346  
Email: [information@hdt-essen.de](mailto:information@hdt-essen.de)

### Technical information

Contact Person: Dr.-Ing. Christoph Andrae  
Email: [c.andrae@hdt-essen.de](mailto:c.andrae@hdt-essen.de)

### Registration related information

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Fax: +49 201 1803 280

### Terms & conditions

Our terms & conditions are listed on our homepage and can be found in our HdT guide.

### Payment Terms/Cancellation/VAT

via transfer or credit card (Visa, Mastercard, American Express, Diners Club). In case of cancellation or change of registration, HdT might charge 50,- € fee. This fee is not applicable to HdT members. All registrations which have not been cancelled in writing 7 days prior to beginning of the event, will be charged the complete amount. Participation fees of HdT e.V. are according to § 4 Nr. 22 UStG not subject to value added tax.

### Exhibitors

For information about the exhibition conditions please contact:  
Johanna Lupczyk  
Phone: +49 201 1803-325  
Email: [j.lupczyk@hdt-essen.de](mailto:j.lupczyk@hdt-essen.de)

# Location



The Dorint Hotel Am Nürburgring (Hocheifel) offers a truly world-class location: In the background lies the wonderful landscape of the High Eifel region and right on its doorstep

lies the final straight of the world-renowned race track – a dream comes true, not only for racing enthusiasts, but for those who enjoy the sounds and sights of beautiful scenery.

