Social Evening

6.11.2019, 7:00 p.m (included in registration fee)



The Hilton Hotel is located in the heart of the historic city of Dresden surrounded by the Procession of Princes. Brühl's Terrace and the Church of Our Lady. In the ballroom of the

hotel we will round off the first conference day. Have a nice evening in a pleasant atmosphere with interesting talks, culinary delights and musical accompaniment.

Manufacture of pralines III

Price per person 70.00 € 6.11.2019, 10:30 a.m. - 2:30 p.m.



Chocolates are a real treat for all senses and self-made chocolates are very special. You have the opportunity to create these little works of art vourself under the expert guidance of a pâtissier.

"Moonstruck" a gudied tour through the special exhibition 7.11.2019, 10:00 a.m. -12:30 a.m. Price per person 26.00 €



One of the most famous paintings of the collection of the Albertinum was painted 200 years ago: "Two Men Contemplating the Moon" by Caspar David Friedrich. In honour of this occasion the most beautiful moonlight landscapes from the C.D. Friedrich "Zwei Männer in der Betrachtung des Mondes" painting collection are presented in a special exhibition.

Become "moonstruck" by contemplating the paintings by C. D. Friedrich, C. G. Carus, E. F. Oehme, Ch. F. Gille, J. Ch. Dahl and L. Richter.

Conference Venue

INFORMATION

Internationales Congress Center Dresden Ostraufer 2 D - 01067 Dresden

Phone: +49 (0)351 216-0



Registration Fees

1.100.00€ Industry

University/Academy/Authorities 600.00€

Accompanying person at the social evening - 6.11.2019 60.00 €

For all registrations made until September 18, 2019, we will grant a discount of 50.00 Euro.

The registration fee includes food and refreshments during breaks. as well as lunch, proceedings and the social evening on November 6, 2019.

Hotels

Maritim Dresden ****(conference hotel) Devrientstr. 10-12, 01067 Dresden

Phone: +49 351 216-0

109,00 € (incl. breakfast) Singleroom Classic 134,00 € (incl. breakfast) Doubleroom Classic

Singleroom Comfort 124,00 € (incl. breakfast) **Doubleroom Comfort** 149.00 € (incl. breakfast)

L Hotel Dresden Altstadt***

Magdeburger Str. 2, 01067 Dresden

Phone: +49 351 486 700

Singleroom 70.00 € (incl. breakfast) Doubleroom 92,00 € (incl. breakfast)

Organiser

Research Association For Combustion Engines Emission Control Technologies (FAD) - registered association -

FAD

Gutzkowstr. 30

01069 Dresden/Germany

Prof. Dr.-Ing. Gennadi Zikoridse, Executive Director Ms. Berit Reuter. Assistant to Executive

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Program and Scientific Direction

Prof. Dr.-Ing. G. Zikoridse FAD e.V. /HTW Dresden

Conference Language

The conference language is German. A simultaneous translation German / English will be offered.

Exhibition

A technical exhibition will be organized at the conference venue. Besides the technical exhibition we offer various possibilities to present your company and products, e. g. advertisements in the conference book and as well as to add brochures and information material to the proceedings. If you are interested in exhibiting at the 17th FAD-Conference, please fill in the application form and send it to the FAD e.V. The application form as well as all relevant information are also available (as PDF for download) online: www.fad-diesel.de.

Application deadline for exhibition 10.10.2019

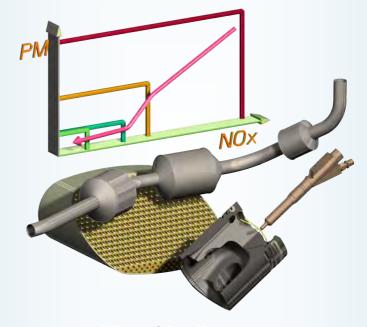
Information on photographing

During the event we take pictures for the purpose of publication on the conference CD, in information leaflets of FAD e.V., in trade journals and on our website www.fad-diesel.de. By your participation in the conference you also consent to the publication of photos showing you. If you do not wish this, please, inform our photographer or our assistants.

Research Association For Combustion Engines Emission Control Technologies (FAD) -registered association-



17. FAD-Conference



"The Challenge -**Exhaust Aftertreatment**"

FAD e.V. Gutzkowstr. 30 D-01069 Dresden/Germany Phone: +49 (0) 351 / 647 53977 Fax: +49 (0) 351 / 647 53979 E-Mail: info@fad-diesel.de http://www.fad-diesel.de

6.11 - 7.11.2019 in Dresden

9th FAD-Conference - winner of the "dresden congress award" 2012

PREAMBLE PROGRAM

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PROGRAM

Ladies and gentlemen,

the standard applied to assess the success in the development of the combustion engine and the implementation of the diversification of its energy basis includes the climate protection goals to be achieved and the emission limit values to be met.

There is a broad agreement on the requirements for future mobility concepts in the society. On the one hand they must be CO₂-neutral and sustainable and, on the other hand, available and suitable for daily use. Ultimately, a mixture of drives according to the mobility needs with a more environmentally friendly energy basis will prevail.

However, there is still need for discussion regarding the implementation of these requirements. FAD e.V. still supports a development without limitation to specific technologies and a fair competition. With regard to the issues mentioned above the conference program of this year is accordingly themed.

Besides the papers, there will be again an accopaning technical exhibition during the two conference days to inform the participants about the latest exhaust aftertreatment developments as well as innovations in the field of exhaust gas measurement and test techniques.

We kindly invite you already today to start an exchange of opinions and a discussion with us and we would be pleased to welcome you in November 2019 in Dresden

Prof. Dr.-Ing. Gennadi Zikoridse Executive Director FAD e.V.



Wednesday, 6. November 2019

09:00 **Welcom and Opening**Prof. Dr.- Ing. G. Zikoridse, FAD e.V./ HTW Dresden, D

09:20 Welcom Address
Prof. Dr.-Ing. habil R. Stenzel, Rektor HTW Dresden, D

Session I: Drives for the mobility of the future
Chairman: Prof. Dr.-Ing, U. Gärtner, Daimler AG, D

09:30 Internal combustion engines for sustainable mobility
Prof. Dr.-Ing. G. Zikoridse, HTW Dresden / Argomotive GmbH, D

10:00 What about our breathing air today?
Prof. Dr.-Ing. habil A. Dittler, KIT, D

10:30 Coffee break

Session II: Exhaust aftertreatment solutions for EU Stage V diesel engines

Chairman: Prof. Dr.-Ing. U. Gärtner, Daimler AG, D

11:00 Exhaust Aftertreatment Solutions for EU Stage V Off Highway Applications
Francois Jaussi, Y. Hohl, Liebherrr Machines Bulle SA, CH

11:30 Homologation and development of stage V NRMM SCRT Systems and components Dominik Lamotte, T. Kästner, J. Schlencker, K. Schrewe, HJS Emission Technology GmbH & Co. KG, D

12:00 **EU Stage V - Mobile machines without restrictions**Ulf Spod, Berufgenossenschaft der Bauwirtschaft, D

12:30 Lunch break

Session III: Contributions from research and development Chairman: Prof. Dr.-Ing. habil. A. Dittler, KIT, D

14:00 Development of a CNG Range Extender for an Electrically Driven Refuse Collector Oliver Dingel, A. Kolesnik, R. Mollik, S. Sickert, IAV GmbH, D

14:30 Deposit Formation on Components of the Exhaust Aftertreatment System
Kevin Friese, Prof. Dr.-Ing. P. Eilts, TU Braunschweid/ ivb. D

15:00 Pre-Turbo Exhaust Gas Aftertreatment Systems for future Diesel Powertrains

Johannes Hipp, Prof. Dr.-Ing. C. Beidl, TU Darmstadt/ vkm, D; H. Bosch, D. Knaf, Friedrich Boysen GmbH & Co. KG, D; G. Hohenberg, M. Conin, IVD Deutschland GmbH, D; J. Kreuz, U. Goebel, Umicore AG & Co. KG, D

15:30 Coffee break

Session IV: Emissions and immissions

Chairman: Prof. Dr.-Ing. habil. A. Dittler, KIT, D

16:00 Status and trends in reducing of non-exhaust emissions Prof. Dr.-Ing. K. Augsburg, D. Hesse, TU Ilmenau, D

16:30 Emission effects of 0.5% sulfur fuels for 2020
 T. Mundt, T. Klauke, DNV GL SE, D; T. Tschalamoff, WTZ, D;
 P. Lauer, MAN Energy Solutions SE, D; B. Behrends, Marena, D

17:00 Effectiveness of protective measures against diesel exhaust emission in garages for fire-fighting vehicles and emergency rescue service

Dr. R. Hebisch, J. Karmann, U. Pott, BAuA, D

19:00 Social Evening

Thursday, 7. November 2019

Session V: Energy basis for future mobility

Chairman: Prof. Dr.-Ing. H. Harndorf, Universität Rostock, D

9:00 Survival Strategy Electromobility - Is E-Mobility the Future?
Dr. H. Becker, Institut für Wirtschaftsanalyse und Kommunikation, D

Synthetic Fuels for the Maritime Energy Transition -Prospects and Challenges Prof. Dr.-Ing. B. Buchholz, Dr. U. Schümann, B. Stengel, K. Schleef, Universität Rostock/ LKV. D

10:00 The HyMethShip Project: Innovative Emission Free Propulsion for maritime applications

Dr. N. Wermuth, M. Lackner, D. Barnstedt, Prof. A. Wimmer, LEC GmbH. A

10:30 Coffee break

Session VI: Quality requirements for fuels

Chairman: Prof. Dr.-Ing. H. Harndorf, Universität Rostock, D

11:00 Potentail of paraffinic hydrocarbons for high quality fuels and lubricants

Dr. J. Karl. Shell Global Solutions. D

11:30 Information about fuel quality worldwide

Dr. J. Schmitt, A. Konzack, Dr. N. Hohlbein, Dr. K. Schaper, Ch. Bofinger, G. Fisch, SGS Germany GmbH, D

12:00 Potentials of a CNG engine compared to a diesel engine for medium-duty vehicles up to 7.5 tons Dr.-Ing. C. Hörhammer, M. Kochs, H. Schneider, ISUZU MOTORS

Germany GmbH, D

12:30 Lunch break

Session VII: Challenge particle measurement

Chairman: Prof. Dr.-Ing. G. Zikoridse, HTW Dresden/ FAD e.V., D

13:30 Recent and Future Developments in the Legislation and Measurement of Particle Number for Typ Approval, in Service Conformity and RDE

Les Hill, N. Baltes, HORIBA Europe GmbH, UK

14:00 New Challenges for Measurement Instrumentation for Particle Number and Particle Size Distribution of emissions from combustion engines

Jürgen Spielvogel, O. Bischof, Dr. C. Kykal, Dr.-Ing. T. Krinke, TSI GmbH, D

14:30 Ultrafine particles, soot and nitrogen oxides in ambient air in Saxony

Dr.-Ing. G. Löschau, Landesamt für Umwelt, Landwirtschaft und Geologie Sachsen. D

15:00 Coffee break

Session VIII: New technologies for emission reduction
Chairman: Prof. Dr.-Ing. G. Zikoridse. HTW Dresden / FAD e.V., D

15:30 Simulation for the development and optimization of exhaust systems

Dr. J. Wurzenberger, AVL List GmbH, A

16:00 Real Driving Emissions of two cars in operation with ethanol blends and CNG

Dr. K. Thuneke, G. Huber, Dr.-Ing. P. Emberger, Dr. E. Remmele, Technologie- und Förderzentrum im Kompetenzzentrum für Nachwachsende Rohstoffe (TFZ), D

16:30 Influence of renewable fuels on specific vehicle emissions under real driving conditions (RDE) Martin Kortschack, A. Singer, Dr. O. Schröder, TAC, D

Martin Kortschack, A. Singer, Dr. O. Schröder, TAC, Prof. Dr. habil. J. Krahl, TH Ostwestfalen-Lippe, D

17:00 Summary and conclusion
Prof. Dr.-Ing. G. Zikoridse, FAD e.V./ HTW Dresden, D