

SOCIAL PROGRAM

Get-Together and Exhibition opening

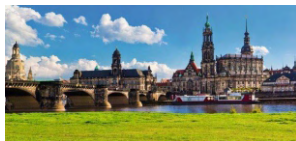
7.11.2023, 18:30 (included in registration fee)

We invite all participants to get to know speakers and other participants in a relaxed atmosphere on the eve of the 20th FAD conference, to visit the exhibition and to have initial technical discussions.

A snack is prepared for the physical well-being.

Social Evening

8.11.2023, 19:00 (included in registration fee)

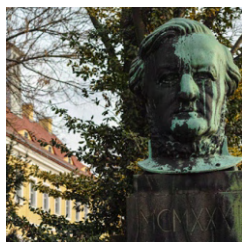


Our evening event takes us to the Neustadt side of the Elbe. Here we invite you to end the first day of the conference with a view of the beautiful silhouette of Dresden's

old town. You can expect a historical ambience, interesting discussions in a pleasant atmosphere, culinary delights and other highlights.

Richard Wagner Sites Graupa

8.11.2023, 9:30 - 14:30 Price per person 40.00 €



We invite you to a guided tour of the Richard Wagner sites in Graupa. Here you can find out why opera history was written in this village near Dresden. You will get an insight into the life and work of this famous composer and what role Dresden played in it.

The world of good chocolate

Enjoyable guided tour through the chocolate museum

9.11.2023, 10:00 -12:00 Price per person 21.00 €



Dresden - once the chocolate capital of Germany - now has a chocolate museum. Here you will get to know the history of chocolate in Dresden. Everyone knows that chocolate is not just chocolate. Experience and taste this difference during the guided tour.

INFORMATION

Conference Venue

Hotel Hiltone
An der Frauenkirche 5
01067 Dresden

Phone: +49 (0)351 86420



Registration Fees

Industry (presence participation)	1200.00 €
Industry (online participation)	600.00 €
University/Academy/Authorities (presence participation)	700.00 €
University/Academy/Authorities (online participation)	325.00 €
Accompanying person at the social evening - 8.11.2023	80.00 €

The registration fee includes food and refreshments during breaks, as well as lunch, proceedings, the get-together (7.11.2023) and the social evening (8.11.2023).

The registration form for the FAD-Conference you will find here:
www.fad-diesel.de

Hotels

Please note that the city of Dresden will levy an accommodation tax (6% of the overnight price) **for all overnight guests** from July 1st, 2023.

Hotel Hilton Dresden (conference venue)
An der Frauenkirche 5, 01067 Dresden, Phone: +49 351 86420

Single room	139,00 € (incl. breakfast)
Double room	164,00 € (incl. breakfast)

Star G Hotel Premium Dresden Altmarkt
Altmarkt 4, 01067 Dresden, Phone: +49 351 307 110

Single room	87.00 € (plus 18.00 € breakfast)
Double room	on request

Motel One Dresden am Zwinger (room contingent until 26.9. 2023)
Postplatz 5, 01067 Dresden, Tel.: +49 351 43838-0

Single room	89.00 € (plus 15.90 € breakfast)
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(**ATTENTION!** The rooms in Motel One can only be booked by the guest himself. You will receive the booking form when you register for the

ORGANISATION

Organiser

Research Association For Emission Control Technologies
for Combustion Engines (FAD)
- registered association -
Gutzkowstr. 30
01069 Dresden/Germany



Prof. Dr.-Ing. Gennadi Zikoridse, Executive Director
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Web: www.fad-diesel.de

Program and Scientific Direction

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

Program Committee

Executive Committee FAD e.V.

Conference Language

The conference language is German.

ATTENTION! We offer simultaneous translation German / English.

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 20th 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 18.10.2023

Information on photographing

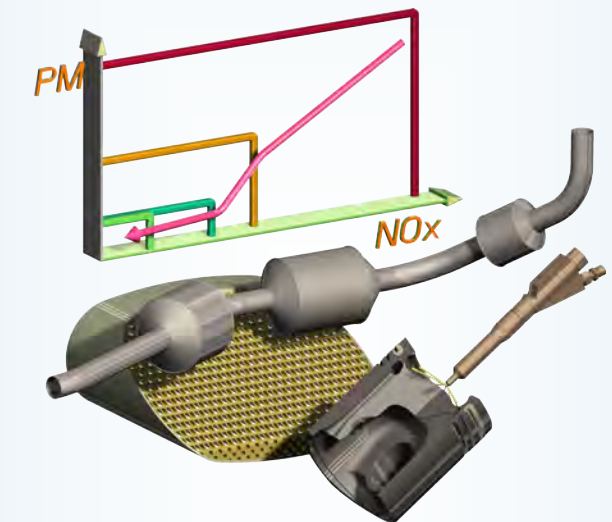
During the event we take pictures for the purpose of publication on the conference CD, in information leaflets of FAD e.V., in trade journals and on our website www.fad-diesel.de. By your participation in the conference you also consent to the publication of photos showing you. If you do not wish this, please, inform our photographer or our assistants. We would also like to point out that online participation takes place via live stream from the conference room.

SCIENCE - RESEARCH - DEVELOPMENT - COOPERATION

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



20. FAD-Conference



„The Challenge - Exhaust Aftertreatment“

INVITATION

ONLINE OR PRESENCE PARTICIPATION

8.11. - 9.11.2023 in Dresden

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

PREAMBLE


Dear Ladies and Gentlemen,

the FAD-Conference will be held for the 20th time this year. This is a sign that exhaust aftertreatment is still an important issue. In the early years it was all about conveying the necessity and introduction of exhaust gas aftertreatment technologies for combustion engines in all areas of application, but today we are addressing the possibilities of implementing CO₂-neutral mobility with the combustion engine. For this, the tried and tested must be adapted, but completely new solutions must also be developed and discussed. Based on this, the thematic priorities of this year's conference were selected.

20 years of the FAD-Conference are also an opportunity for us to try new things. The exhibition that accompanies the conference will be opened on the evening before the conference as part of a get-together. This offers another good opportunity to get to know speakers and other participants and to have discussions.

At the exhibition, which is an integral part of the FAD-Conference, the motto is "Back to the roots". In addition to exhibition opportunities in the break area of the FAD conference, this year we are offering all interested parties the opportunity to exhibit outside, e.g. of vehicles.

We would like to invite you to the 20th FAD-Conference on 8./9. November 2023 in Dresden. Experts from industry, science and research will meet here to obtain information from specialist lectures, discuss possible solutions and exchange ideas. Whether as an on-site participant or online participant or exhibitor - we look forward to welcoming you to Dresden in November.


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



PROGRAM

Wednesday, 8th November 2023	
09:00	Welcome and Opening Prof. Dr.- Ing. Gennadi Zikoridse, FAD e.V./ HTW Dresden, D
09:15	Welcome address Prof. Dr. rer. nat. Katrin Salchert, Rektorin HTW Dresden, D
Session I: Exhaus aftertreatment for hydrogen engines - I Chairman: K. Schrewe, HJS Emission Technology GmbH & Co. KG	
09:30	Sustainable drives for working machines of the future - Who needs exhaust aftertreatment anymore? Sebastian Heinecke, A. Plumpe, DEUTZ AG, D
10:00	Strategy for heavy duty trucks with hydrogen combustion engine – exhaust aftertreatment and real driving emissions Florian Lindner, Dr. S. Schraml, D. Teubner, D. Hyna, M. Weidner, Dr. A. Broda, MAN Truck & Bus SE, D
10:30	Coffee break
Session II: Exhaus aftertreatment for hydrogen engines - II Chairman: K. Schrewe, HJS Emission Technology GmbH & Co. KG	
11:00	EATS concept for H₂-ICE in a heavy duty application Matteo Pietro Longo, T. Philipp, Liebherr Machines Bulle SA, CH
11:30	Exhaust Aftertreatment System for H₂-ICE – Potentials and Challenges Dr. B. Maurer, B. Lindemann, K. Schrewe, I. Zirkwa, HJS Emission Technology GmbH & Co. KG, D
12:00	Lunch
Session III: Research and development contributions Chairman: Dr.-Ing. G. Hühthwohl, Albonair GmbH, D	
13:30	Comparing Real Driving Emissions from Euro 6d Vehicles Running on E0 and E10 Gasoline Blends Nick Molden, Emission Analytics; V. Shankar, University of Oxford, UK
14:00	Efficient exhaust gas aftertreatment with the next generation - CatVap® Artur Müller, F. Feldhaus, R. Thannimotil, Dr.-Ing. G. Hühthwohl, Albonair GmbH, D
14:30	The Fischer TEC-Cube: Flexible and modular retrofitting of existing power packs for permanent or temporary compliance with exhaust emissions from MCP to Stage V. Dirk Fischer, M. Bösing, Fischer Abgastechnik GmbH & Co.KG, D

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15:00	Coffee break
Session IV: Challenges and solutions for EURO 7/ VII emission legislation Chairman: Dr.-Ing. G. Hühthwohl, Albonair GmbH	
15:30	Euro 7 - current status of discussion Helge Schmidt, TÜV NORD Mobilität GmbH & Co. KG/ IFM, D
16:00	Euro 7 emissions and energy legislation for passenger cars, light and heavy commercial vehicles Current status, challenges and measurement technology solutions. Kurt Engeljehringer, K. Oberguggenberger, AVL List GmbH, A
16:30	The new Euro 7 ammonia limit values - challenges to meet them and solutions to measure them correctly Dr. B. Arlitt, R. Belleux, K. Engeljehringer, P. Rauch, AVL Analytical Technologies, D
19:00	Social evening
Thursday, 9th November 2023	
Session V: New fuels for future mobility Chairman: Prof. Dr.-Ing. H. Harndorf, Universität Rostock	
9:00	New developments for the use of regenerative fuels Prof Dr. T. Garbe, Volkswagen AG, D
9:30	Potential energy carriers for future mobility Prof. Dr. - Ing. F. Atzler, TU Dresden, D Julian Türck, Prof. Dr. J. Krahel, Hochschule Ostwestfalen-Lippe, D
10:00	International trading portfolio for CO₂-neutral energy imports to Germany Dr. S. Kahlbau, A. Schwindt, L. Yorck von Wartenburg, C4D/ IAV Gruppe, D
10:30	Coffe break
Session VI: New technologies for future fuels Chairman: Prof. Dr.-Ing. H. Harndorf, Universität Rostock, D	
11:00	Nanoparticle Emissions of a Heavy-Duty Engine with Conventional and Soot-Free Fuels Prof. Dr.-Ing. A. Gelner, TH Ingolstadt, D; Dr. rer. nat. D. Rothe, MAN Truck & Bus SE, D; Dr. rer. nat. C. Kykal, TSI GmbH, D

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11:30	Ammonia Dual-fuel Combustion – Influence of Pilot Injection Strategy on Performance and Emissions Till Mante, Dr.-Ing. S. Prehn, M. Glauner, Dr.-Ing. L. Seidel, Prof. Dr.-Ing. B. Buchholz, Universität Rostock, D
12:00	Improving the quality of synthetic gasoline through the combination of the Methanol to Gasoline process with upgrading methods Dr. P. Knüpfer, Prof. Dr. S. Kureti, M. C. Revilla Nebreda, Dr. C. Zschiesche, TU Bergakademie Freiberg/ IEC, D
12:30	Lunch
Session VII: New technologies for exhaust aftertreatment Chairman: Prof. Dr. T. Garbe, Volkswagen AG, D	
13:30	Cleaning mechanisms in the exhaust path Prof. Dr.-Ing. P. Eilts, J. Ruschke, TU Braunschweig, D; Dr. A.-M. Kulik, Ch. Singer, Prof. Dr. S. Kureti, TU Bergakademie Freiberg, D
14:00	Renewable methane for freight transport and shipping - Insights into the Pilot-SBG project Dr.-Ing. F. Müller-Langer, DBFZ gGmbH, D
14:30	Reference aerosols for Periodical Technical Inspection Dr.-Ing. L. Hillemann, D. Göhler, Dr.-Ing. S. Große, J. Müller, Dr.-Ing. A. Rudolph, TOPAS GmbH, D
15:00	Coffee break
Session VIII: Alternative technologies Chairman: Prof. Dr. T. Garbe, Volkswagen AG, D	
15:30	Low temperature NO_x reduction by H₂ in lean exhaust of stationary gas engines Daniel Schröder, Prof. Dr. S. Kureti, TU Bergakademie Freiberg/ IEC, D
16:00	Exhaust aftertreatment solutions for H₂-combustion engines Dr. B. Costa, KEYOU GmbH
16:30	Summary and conclusion Prof. Dr.-Ing. G. Zikoridse, FAD e.V./ HTW Dresden, D