SOCIAL PROGRAM

Social Evening 15.9.2021, 7:00 p.m.

(included in registration fee)



Our evening event leads us to the TU Dresden campus. We invite you all to the "Alte Mensa" which was opened as the first canteen of Germany in 1925 and still provides the students with food. This "Alte Mensa" has

more to offer, let yourself be surprised. Enjoy an evening in a pleasant atmosphere with interesting talks, culinary delights and musical highlights.

Meißen

15.9.2021, 10:30 a.m. - 2:30 p.m. Price per person 55.00 €



Meißen - a picturesque town on the Elbe offering a medieval townscape is regarded as the cradle of Saxony. The Albrechtsburg, the first castle building in the Germanspeaking area, and the cathedral dominate the skyline. During the guided tour through the city of Meißen a lot of interesting and useful information resulting from a thousand-year history will be given to you.

"Welcome to the Sanctuary of Art"

Guided tour through the reopened Semper Gallery 16.9.2021, 10:00 a.m. -12:30 p.m. Price per person 26.00 €



The reopening of the Gemäldegalerie Alte Meister (Old Masters Picture Gallery) in the Semper Building was eagerly awaited. It is a completely redesigned new permanent exhibition elevating the collection and building to what they had been originally designed for: a royal artistic pleasure within a palatial building. The rooms shine in a new magnificent light, technically as well as aesthetically. Never before

since Augustus the Strong had the pastels been staged more beautifully and never before could one experience the symbiosis between painting and sculpture more evidently. Both sister arts are exhibited directly next to one another to show their intensive interactions.

INFORMATION

Conference Venue

Radisson Blu Park Hotel & Conference Centre Nizzastr. 55 01445 Radebeul

Phone: +49 (0)351 8321-0

Registration Fees

Industry (presence participation)	1,100.00 €		
Industry (online participation)	550.00 €		
University/Academy/Authorities (presence participation)	600.00 €		
University/Academy/Authorities (online participation)	275.00 €		
Accompanying person at the social evening - 15.9.202	1 60.00€		
For a registration as a presence participant by July 30, 2021, we grant a discount of 50.00 €.			

The registration fee includes food and refreshments during breaks, as well as lunch, proceedings and the social evening on September 15,

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

ATTENTION! The applicable distance rules in the conference hall mean that the seats are limited. Please secure your participation by registering early.

Hotels

2021.

Radisson Blu Parkhotel (Tagungshotel) Nizzastr. 55, 01445 Radebeul Phone: +49 351 8321-0

Single room Double room

City Hotel Radebeul Nizzastr. 55, 01445 Radebeul Phone: +49 351 8321 700

Single room Double room

85,00 € (incl. Breakfast) 110,00 € (incl. Breakfast)

115.00 € (incl. Breakfast)

140.00 € (incl. Breakfast)

Organiser

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

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

Phone: +49 (0) 351 647 53 977 konferenz@fad-diesel.de E-Mail: Web: www.fad-diesel.de

Program and Scientific Direction

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

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 18th 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 31.08.2020

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.

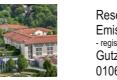
FAD

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





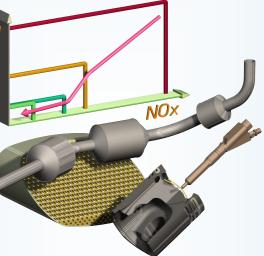
ORGANISATION



SCIENCE - RESEARCH - DEVELOPMENT - COOPERATION



18. FAD-Conference



"The Challenge -Exhaust Aftertreatment"

INVITATION

ONLINE OR PRESENCE PARTICIPATION

15.9 - 16.9.2021 in Radebeul 9th FAD-Conference - winner of the "dresden congress award" 2012

PROGRAM

PROGRAM

14:30	Development of a H_2 -deNO _x catalyst for lean H_2 combustion engines	Sektion	n VI Le
	Enno Eßer, Prof. Dr. S. Kureti, TU Bergakademie Freiberg/ IEC, D; D. Koch, Keyou GmbH, D	11:00	Cl m
15:00	Holistic engine and exhaust after-treatment system development for hydrogen combustion concepts PrivDoz. DrIng. habil. R. Rezaei, M. Mennig, Ch. Hayduk, Dr. Ch. Bertram, IAV GmbH, D; Ch. Hahn, Prof. Dr. S. Kureti, TU Bergakademie Freiberg/ IEC, D	11:30	Dr. Pe Dr. Fr Cl
15:30	Coffee break	12:00	U: er
Sessio	on IV: Exhaust aftertreatment for hybrid concepts Chairman: Prof. Dr. S. Kureti, TU Bergakademie Freiberg/ IEC, D		Ti Tl
NO _x and particulate emissions legislation?	Is the plug-in hybrid the right concept to meet future CO_2 ,	12:30	Lı
	NO_x and particulate emissions legislation? DrIng. G. Eifler, Elring Klinger Motortechnik GmbH, D	Sektion	n VI CI
16:30	Exhaust aftertreatment system for a high-performance hybrid commercial vehicle Jan Philipp Neef, D. Lamotte, K. Schrewe, HJS Emission Technology GmbH & Co. KG, D	13:30	M br Pi Tl
17:00	Hot ideas for cold applications in the on-road and off-road sector	14:00	Tł Ki
K. Müller-Haas, D. Odenthal, Vitesco Technologies Emitec GmbH, D	14:30	In Di	
18:30	Transfer to the social evening		Pi
Thurs	day, 16th September 2021	15:00	С
Sessio	n V: New fuels for future mobility Chairman: Prof. DrIng. H. Harndorf, Universität Rostock, D	Sessio	n V Cl
9:00	Future mobility requirements - a holistic view Prof. Dr. sc. techn. T. Koch, O. Toedter, P. Weber, M. Andresh, KIT/ IFKM, D	15:30	Hi Di Di
9:30	Key factors for the success of climate fuels: availability, sustainability, costs and quality Prof. Dr. T. Garbe, Volkswagen AG, D	16:00	Hi Ca Cl Di
10:00	Challenges of future fuels: OMEx as an example alternative to diesel fuel	16.20	Uı
	Dr. S. Crusius, M. Müller , H. Stein, ERC Additiv GmbH; D	16:30	Pl De
10:30	Coffee break		Vo

Ladies and gentlemen,

The 18th FAD-Conference "Challenge - Exhaust Aftertreatment" takes place on 15./16. September 2021 as a hybrid event in Radebeul near Dresden. If the past few months have been characterized by postponed or canceled conferences and home office. I am all the more pleased to be able to invite you to attend the professional discourse again.

Since our association was founded 21 years ago, there have been great technical advances in exhaust, including enforced by the constant updating of emissions legislation. Today there is a broad consensus in society that health, environmental and climate protection are important and that every economic sector must make its contribution to reducing emissions. However, there is a wide range of ideas and opinions about the implementation of the protection goals. Inner-city air quality, CO₂ emissions, nitrogen oxide limits, mobility change, new drive concepts, alternative fuels, suitability for the future - all buzz words that have dominated the discussions lately. In recent years, the internal combustion engine has increasingly been viewed by politicians and society as an outdated drive. Now, however, the realization is gaining ground that it must be part of the future portfolio of drives in order to ensure environmentally friendly mobility that meets economic and social requirements.

The contributions of the 18th FAD-conference give an insight into the innovative concepts, new solutions and further developments in the field of exhaust gas aftertreatment technologies to ensure the efficiency and environmental compatibility of internal combustion engines under all application-specific conditions.

The accompanying trade exhibition, as an integral part of our FADconference, will once again offer a platform this year to present the performance and innovation potential of the exhibiting companies. universities, colleges and institutes.

I hope you are interested in the conference program. Despite the current difficult situation. I would be happy to see you on site or as an online participant in September.



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

Wednesday, 15th September 2021

- 09:00 Welcom and Opening Prof. Dr.- Ing. G. Zikoridse, FAD e.V./ HTW Dresden, D
- 09:15 Welcom Address Prof. Dr. rer. nat. K. Salchert, Rektorin HTW Dresden, D
- Session I: Exhaust aftertreatment for future internal combustion engines Chairman: Prof. Dr.-Ing. U. Gärtner. HTW Dresden. D
- 09:30 20 Years FAD e.V.: A perfect occasion for a review and outlook to future emission control technologies for internal combustion engines Dr.-Ing. C. Görsmann, Dr. Ch. Morgan, Dr. A. Walker, Johnson Matthey Plc. UK
- 10:00 Next Generation for efficient EAT Heating Catvap® Robert Szolak, Dr. A. Susdorf, P. Beutel, Fraunhofer Gesellschaft/ ISE, D; B. Danckert, ICCL Ltd, CY
- 10:30 Coffee break
- Session II: Exhaust aftertreatment solutions for EU-Stage V diesel engines Chairman: Prof. Dr.-Ing. U. Gärtner, HTW Dresden, D
- 11:00 Modern system design for diesel exhaust gas aftertreatment of non.road mobile machinery on the basis of DEUTZ TCD 5.2 Sebastian Heinecke, Deutz AG, D
- 11:30 New exhaust gas treatment concepts for off-highway applications Thorben Philipp, Liebherr Machines Bulle SA, CH
- 12:00 EU Stage V Mobile machines without restrictions Ulf Spod, Berufgenossenschaft der Bauwirtschaft, D

12:30 Lunch

FAD

- Session III: Contributions from research and development Chairman: Prof. Dr. S. Kureti, TU Bergakademie Freiberg/ IEC, D
- 13:30 20 years of air pollution control new challenge Prof. Dr.-Ing, habil, A. Dittler, KIT/ MVM, D
- 14:00 Feasibility study for exhaust gas aftertreatment for diesel engines <19 kW Dr. U. Petasch, L. F. Köhl, Fraunhofer Gesellschaft/ IKTS, D;

Dr. U. Hofmann, Prof. Dr.-Ing. G. Zikoridse, Argomotive GmbH, D; J. Schröder. DBFZ aGmbH. D

I: New fuels for future mobility eitung: Prof. Dr.-Ing. H. Harndorf, Universität Rostock, D

hallenges in testing fuel-carrying components when using odern alternative fuels r.-Ing. K. Lucka, S. Eiden, Dr. H. Hoffmann, TEC4FUELS GmbH, D

erspective for gasoline regenerative

r. P. Seifert, Dr. Roh Pin Lee, Prof. B. Meyer, TU Bergakademie reiberg/IEC, D; Dr. M. Kuschel, J. Engelmann, Chemieanlagenbau hemnitz GmbH . D

se of OME pure fuel on the series engine: Analysis of exhaust missions in different application strategies

im Steinhaus, A. Mokros, Prof. Dr. techn, Ch. Beidl. U Darmstadt/ vkm. D

unch

II: Emission measurement technology and exhaust gas sensors hairman: Prof. Dr. T. Garbe, Volkswagen AG, D

lethods for measuring and predicting particle emissions from rakes and tires

rof. Dr.-Ing. K. Augsburg, D. Hesse, V. Ricciardi, T. Feißel, U Ilmenau. D

he new European challenge: Post Euro-6/VI emission testing urt Engeljehringer, AVL List GmbH, A

npedance-based NOx-Sensor for exhaust applications

irk Bleickert, F. Noack, CPK Automotive GmbH & Co, KG, D rof. Dr.-Ing. R. Moos, Dr. G. Hagen, Dr. J. Kita, Universität Bayreuth/ ERC. D

offee break

/III: New technologies for reducing emissions hairman: Prof. Dr. T. Garbe, Volkswagen AG, D

igh-temperature stable SCR catalysts for large engines

r. J. Spengler, Dr. S. Iretskava, Interkat Catalyst GmbH, D; r. M. Presti, E. Bjerregaard, Vitesco Technologies Emitec GmbH, D

igh Temperature Desulphurisation with Sodium Hydrogen arbonate for Large Engine Power Plants

hristian Pfahler, M. Franke, MAN Energy Solutions SE, D; r.-Ing. R. Bank, FVRT GmbH, D; Prof. Dr.-Ing. B. Buchholz, niversität Rostock. D

hysical Exhaust Gas Simulation for Aftertreatment System evelopment Using a Burner-Based Technology

olker Hensel, S. Eakle, B. Zavala, Southwest Research Institute, USA

16:30 Summary and conclusion

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