SOCIAL PROGRAM

Social Evening 4.11.2020, 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

4.11.2020, 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 5.11.2020, 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

ndustry	1,100.00€
University/Academy/Authorities	600.00€

Accompanying person at the social evening - 4.11.2020 60.00 €

For all registrations made until September 18, 2020, 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 4, 2020.

The registration form for the FAD-Conference you will find here: www.fad-diesel.de/event/18-fad-konferenz-herausforderungabgasnachbehandlung/

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

Hotels

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)

ORGANISATION

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! Due to the situation there is no simultaneous translation this year.

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.

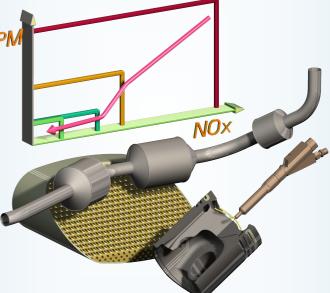
Application deadline for exhibition 12.10.2020

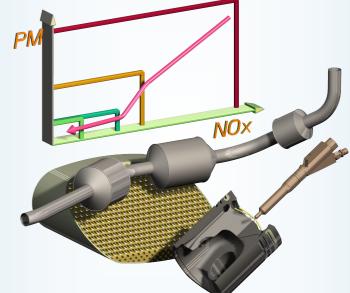
Information on photographing

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-





FAD e.V. Gutzkowstr. 30





SCIENCE - RESEARCH - DEVELOPMENT - COOPERATION



18. FAD-Conference

"The Challenge -Exhaust Aftertreatment"

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

4.11 - 5.11.2020 in Radebeul

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

PROGRAM

PROGRAM

	14:30	engines		Sektion VI: Leit	
		Enno Eßer, Prof. Dr. S. Kureti, TU Bergakademie Freiberg/ IEC, D; D. Koch, Keyou GmbH, D	11:00	Cha mo	
	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 Per Dr. Fre	
	15:30	Coffee break	12:00	Che	
	Sessio	n IV: Exhaust aftertreatment for hybrid concepts Chairman: Prof. Dr. S. Kureti, TU Bergakademie Freiberg/ IEC, D	12.00	Use em Tim TU	
	16:00	Is the plug-in hybrid the right concept to meet future CO ₂ , NO _x and particulate emissions legislation? DrIng. G. Eifler, Elring Klinger Motortechnik GmbH, D	12:30	Lun	
	16:30	Exhaust aftertreatment system for a high-performance hybrid commercial vehicle Jan Philipp Neef, D. Lamotte, K. Schrewe,	Sektio	n VII ser Cha	
		HJS Emission Technology GmbH & Co. KG, D	13:30	Me bra	
17:00	17:00	Hot ideas for cold applications in the on-road and off-road sector		Pro TU	
	18:30	K. Müller-Haas, D. Odenthal, Vitesco Technologies Emitec GmbH, D Transfer to the social evening	14:00	The Kur	
			14:30	lmp Dirk	
Thursday, 5th November 2020			Pro Bay		
	Sessio	n V: New fuels for future mobility Chairman: Prof. DrIng. H. Harndorf, Universität Rostock, D	15:00	Cot	
	9:00	Future mobility requirements - a holistic view Prof. Dr. sc. techn. T. Koch, O. Toedter, P. Weber, M. Andresh, KIT/ IFKM, D	Sessio	n VI Cha	
	9:30	Key factors for the success of climate fuels: availability, sustainability, costs and quality Prof. Dr. T. Garbe, Volkswagen AG, D	15:30	Hig Dr. Dr.	
	10:00	Challenges of future fuels: OMEx as an example alternative to diesel fuel Dr. S. Crusius, M. Müller , H. Stein, ERC Additiv GmbH; D	16:00	Phy Dev Voll US	
	10:30	Coffee break	16:30	Su	
				-	

Ladies and gentlemen.

The 18th FAD conference "Challenge - Exhaust Aftertreatment" takes place in the 20th year of the existence of the Research Association for Emission Control Technologies for Combustion Engines (FAD). Since the foundation of the association, there have been major technical advances in exhaust aftertreatment, 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 development goal for exhaust gas aftertreatment systems is to ensure the efficiency and environmental compatibility of internal combustion engines under all application-specific conditions. 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.

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.

In the hope that this year's conference program will find your interest. I would like to invite you to attend the 18th FAD-conference. I would be happy if I could welcome you in Radebeul near Dresden in November. despite the current difficult situation.



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

Wednesday, 4th November 2020

- 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, DaimlerTruck AG, 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, Daimler Truck AG, 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

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

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

rspective for gasoline regenerative

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

e of OME pure fuel on the series engine: Analysis of exhaust issions in different application strategies

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

nch

I: Emission measurement technology and exhaust gas nsors airman: Prof. Dr. T. Garbe, Volkswagen AG, D

thods for measuring and predicting particle emissions from akes and tires

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

e new European challenge: Post Euro-6/VI emission testing rt Engeliehringer, AVL List GmbH. A

pedance-based NOx-Sensor for exhaust applications k Bleickert, F. Noack, CPK Automotive GmbH & Co, KG, D of. Dr.-Ing. R. Moos, Dr. G. Hagen, Dr. J. Kita, Universität vreuth/ BERC. D

ffee break

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

gh-temperature stable SCR catalysts for large engines

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

sysical Exhaust Gas Simulation for Aftertreatment System velopment Using a Burner-Based Technology

Iker Hensel, S. Eakle, B. Zavala, Southwest Research Institute. SA

mmary and conclusion

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