



HORIBA CONCEPT EUROPE 2018

CONFERENCE for COMBUSTION EMISSIONS PARTICULATES and TESTING

- » **DATE** March 22nd - 23rd, 2018
- » **LOCATION** Dresden, Germany
- » **TOPICS**
 - Future Emission Requirements and Legislation
 - Testing Methods for Alternative Propulsion Technologies
 - Integration of Real and Virtual Testing

CONFERENCE PROGRAM

Join us at the 4th HORIBA CONCEPT Europe Conference, which will be organized in cooperation with the Dresden University of Technology.

This conference will give an overview of the impact of new technologies and new vehicle requirements on the design and validation process, covering the following topics:

TOPICS

» **Future Emission Requirements and Legislation**

Targets and challenges of measurement principles for non-combustion particles such as brake wear or tires

» **Testing Methods for Alternative Propulsion Technologies**

Current status of new measurement principles for development and testing of new propulsion technologies

» **Integration of Real and Virtual Testing**

Status, targets and challenges of new hybrid methods, such as X-in-the-loop, and combined simulation and testing

MARCH 22nd (THURSDAY)

From 10:30 **Arrival and Registration**

11:00 **Opening**

11:30 **Keynote Speech: Shared Electric Connected and Automated (SECA): The Future of Transportation**

Prof. Dr. Matthew Barth
University of California Riverside, Bourns College of Engineering, Center for Environmental Research and Technology (CE-CERT)

12:30 **Lunch Break**

1. FUTURE EMISSION REQUIREMENTS AND LEGISLATION

- 13:30** **Keynote Speech: Health Effects Related to Emissions from Road Transport in Perspective to Other Sources Like Industry**
Prof. Dr. Flemming Cassee / Miriam Gerlofs-Nijland
RIVM (National Institute for Public Health and the Environment, Netherlands)
- 14:30** **A Definition of Real Driving Emissions**
Lars Mönch
Umweltbundesamt (German Federal Environment Agency)
- 15:00** **Coffee Break**
- 15:30** **Non-Exhaust Emissions: How to Deal with Brake Particle Emissions**
Dr. Sebastian Gramstat
AUDI AG
- 16:00 - 16:30** **Recent Developments in European Light Duty Vehicle Emissions Legislation and Their Implications**
Les Hill
HORIBA Ltd.
- 16:30 - 17:00** **Virtual Testing and Validation of the Upgradable, Autonomous Car of the Future**
Thomas Dietz
Fraunhofer IPA

Image: © Sophienkeller



- At 19:00** **Evening Event ...**
... in Sophienkeller , a traditional restaurant in the vaulted ceilings of the „Taschenbergpalais“ in the city centre.

CONFERENCE PROGRAM

MARCH 23rd (FRIDAY)

2. TESTING METHODS FOR ALTERNATIVE PROPULSION TECHNOLOGIES

- 09:00** **Analytical Spectroscopy in Automotive Development**
Dr. Ruth Geiger
HORIBA Jobin Yvon GmbH, Scientific
- 09:30** **New Hybrid Test Procedures: X-Ray Instrumented Vehicle Crash and Crash Testing of Charged Batteries**
Dr. Malte Kurfiß
Fraunhofer EMI
- 10:00** **Optimised Diesel Hybrid Powertrain and Controls to Minimize CO₂ and NO_x Emissions**
Stefan Rohrer
Continental
- 10:30** **Coffee Break**
- 11:00 - 11:30** **Bosch Activities on Combustion Generated Nano Particle Emissions and Associated EU Funded Projects**
Dr. Andreas Manz
Robert Bosch GmbH

3. INTEGRATION OF REAL AND VIRTUAL TESTING

- 11:30** **Advanced Vehicle Driving Modes - Future Test and Diagnosis Challenge**
Prof. Dr. Bernard Bäker
Dresden Institute of Automobile Engineering, TU Dresden
- 12:00** **Big Data and Machine Learning: Challenges and Opportunities to Improve Your Business**
Jörg Schönbach
HORIBA Europe GmbH
- 12:30** **Lunch Break**

- 13:30** Synergetic Utilization of Testing and Simulation in the Audi Chassis Development Process
Dr. Sebastiaan van Putten
AUDI AG
- 14:00** Integrated Test and Simulation in Handling and Ride Target Cascading
Prof. Dr. Günther Prokop / Felix Kocksch
Dresden Institute of Automobile Engineering, TU Dresden
- 14:30** **Coffee Break**
- 15:00** Integration of Real and Virtual Testing in the Context of Testing ADAS and Automated Vehicles
Dr. Pawel Jaworski
HORIBA MIRA Ltd.
- 15:30 - 16:00** **Closing**

ADDITIONAL INFORMATION:

All topics are followed with a Q&A session
English and German (simultaneous translation)

CHAIR OF CONFERENCE

Prof. Dr. Marcus Rieker

Director Academic Affairs

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HORIBA
Automotive Test Systems

Prof. Dr. Günther Prokop

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 **TECHNISCHE
UNIVERSITÄT
DRESDEN**

Information

Conference fee

» Application by February 23rd 2018

Participants: € 470,00

Students: € 100,00

» Later application

Participants: € 520,00

Students: € 150,00

The fees include:

- participation in the event
- conference documents
- catering during the breaks
- participation in the evening event
- 19% VAT.

For students the evening event is not included.

VENUE & HOTELS

The Westin Bellevue Dresden Hotel

Image: © The Westin Bellevue Dresden



The Westin Bellevue
Dresden Hotel



Image: © Secoya, shutterstock.com

Dresden

Hotels

A limited number of rooms was reserved at the following hotels:

» **The Westin Bellevue Dresden:**

Conference hotel

» **Ibis Bastei Dresden:**

2 km to the conference hotel

» **Vienna House QF Dresden:**

1 km to the conference hotel

You can use the registration form to book the hotel room and benefit from our special rates.

APPLICATION & CONTACT

Conference Organization

CMD Congress Management GmbH Dresden
Bertolt-Brecht-Allee 24
01309 Dresden
Germany

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Application

Please sign up for the conference at:

<https://formularserver.org/concept2018/>

After registering, you will receive confirmation and an invoice from CMD. You can also book hotel accommodation when you register.

HORIBA.COM

