

# Call for Papers

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8<sup>th</sup> International MinNO<sub>x</sub> Conference  
September 22 – 23, 2020, Kalkscheune Berlin



Dear colleagues,

The debate about urban air quality and NO<sub>x</sub> emissions from pre-RDE diesel vehicles is known to us all. It has impacted our community in many ways. EU6d proves that NO<sub>x</sub> emissions can be reduced significantly under a wide range of RDE conditions. These developments have already brought new vehicles close to "zero impact" in terms of urban air quality.

Nonetheless, most of us expect upcoming legislative steps to bring about further reductions in the limits. Our community should anticipate these steps, not only because the remaining development time may be short, but also in order to demonstrate the feasibility of a "real zero impact" emission level as a basis for future-proof, competitive ICE powertrains.

In the long-run, powertrain competitiveness will depend on the environmental impact from cradle to grave and the cost of fulfilling specific mobility requirements. ICE-powered vehicles will be the best way of fulfilling mobility requirements for medium and long distances, at least for the next decade. Continued access to urban areas depends crucially on achieving further progress towards a real zero-impact emission level.

In the 8<sup>th</sup> MinNO<sub>x</sub> conference we would like to follow this line of thought and discuss with you the latest ideas and developments with regard to "Minimization of nitrogen oxide emissions from combustion engines".

As before we look forward to good technical dialog between international experts during the lectures and at the accompanying exhibition.

### **We are calling for your contributions on the following topics:**

- Outlook regarding future exhaust emission legislation and latest trends in urban air quality
- MinNO<sub>x</sub> systems in diesel, gasoline and hybrid powertrains from passenger car to heavy duty as well as off-highway applications
- New technologies for AdBlue injection involving low-temperature dosing capability and mixing section design
- Global optimization of engine and MinNO<sub>x</sub> systems to reduce both nitrogen oxide and CO<sub>2</sub> emissions
- New technologies for engine-out NO<sub>x</sub> reduction and advanced MinNO<sub>x</sub> system thermal management
- Chances and challenges for exhaust aftertreatment systems in electrified powertrains
- Modeling of exhaust aftertreatment components and engine systems involving AI, machine learning and model-based calibration
- Controls for MinNO<sub>x</sub> systems
- Monitoring and diagnostics of MinNO<sub>x</sub> systems
- MinNO<sub>x</sub> system ageing and technologies for improved service conformity

### **Chairman**

Dr. Maximilian Brauer, IAV

### **Program committee**

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Torsten Tietze, IAV  
Claus-Dieter Vogt, NGK  
Dr. Michel Weibel, Daimler

### **Submission of abstracts**

Please submit your abstract with title, authors and co-authors to the following address:  
[www.iav.com/MinNOx](http://www.iav.com/MinNOx)

Queries should be addressed to:  
Claudia Böckermann, UNIVERSAL  
Tel. +49 30 31018545

### **Closing date for entries**

April 17, 2020

### **Authors informed**

End of May 2020

### **Presentation languages and duration**

The conference language is English. Presentations will last 20 minutes with a further 10 minutes for discussion. The proceedings will feature copies of the presentations.

### **Exhibition**

Take advantage of this opportunity to present your topic to an interested audience of experts. The team organizing the event would be pleased to inform you of the options.

