

The complete Conference Program

Tuesday, March 9, 2010

- 9.00 a.m. Welcome and Opening of the 6th International Exhaust Gas and Particulate Emissions Forum
Prof. Dr. H. Tschöke
Otto-von-Guericke Universität Magdeburg
Prof. H. List – *AVL List GmbH, Graz, Austria*
- Section 1*
Chairman: Prof. Dr. H. Tschöke
Otto-von-Guericke Universität Magdeburg
- 9.15 a.m. **The balance of emission and profitability in the Automotive Industry**
Prof. Dr. W. Steiger – *Volkswagen AG, Wolfsburg*
- 10.00 a.m. **Efficient Reduction of Environmental Impacts from transport**
Prof. Dr. U. Becker, M. Winter – *Lehrstuhl für Verkehrsökologie, Technische Universität Dresden*
Prof. Dr. H. Tschöke
Otto-von-Guericke Universität Magdeburg
- 10.30 a.m. Coffee Break
- 11.15 a.m. **The Challenge of Future Particle Number Legislation; Particle Formation and Particle Reduction**
R. Konieczny, N. Zaldua Moreno, R. Brück
Emitec GmbH, Lohmar
- 11.45 a.m. **Particle Counting and Alternatives**
Dr. D. Rothe, Dr. H. Beck, R. Maurer
MAN Nutzfahrzeuge AG, Nürnberg
- 12.15 p.m. **Particle number measurements at different sampling positions**
Dr. B. Giechaskiel, M. Carriero, G. Martini
Joint Research Centre of the European Commission, Transport and Air Quality Unit, Ispra, Italy
- 12.45 p.m. Lunch
- Section 2*
Chairman: Prof. Dr. J. Krahl – *Hochschule Coburg*
- 2.15 p.m. **The AVL Particle Counter – Working Principle – Calibration – Application**
Dr. A. Bergmann, Dr. B. Giechaskiel, H. Pongratz, H. Jörgl – *AVL List GmbH, Graz, Austria*
- 2.45 p.m. **Particle-Filter-Onboard-Diagnosis by Means of a Soot-Sensor Downstream of the Particle-Filter**
M. Weigl – *Continental Automotive GmbH, Regensburg*
Dr. C. Roduner, T. Lauer
AVL Software and Functions GmbH, Regensburg
- 3.15 p.m. **Biodiesel Fuel Property Effects on Particulate Matter Reactivity**
A. Williams, S. Black, R. L. McCormick
National Renewable Energy Laboratory, Golden, CO, USA
- 3.45 p.m. Coffee Break
- 4.30 p.m. **Measurement of non regulated pollutants by FTIR and comparison with laboratory methods**
P. Maire, P. Dorlhene
Renault Automobiles SA, Lardy, France
- 5.00 p.m. **New laser based methods in exhaust gas measurement technology**
Dr. A. Lambrecht – *Fraunhofer Institute for Physical Measurement Techniques IPM, Freiburg*
- 5.30 p.m. **CO – an increasing challenge for lowest emission concepts**
D. Neumann, F. Schrade, N. Basse, J. Schäffner, W. Tschiggfrei, Dr. L. Krämer – *IAV GmbH, Berlin*
- 6.00 p.m. **Reduction of particulate number emission of GDI engines by application**
M. Ogris, P. Hollerer, Dr. P. Kapus, Dr. G. Fraidl
AVL List GmbH, Graz, Austria
- 7.00 p.m. Start of the Evening Event in the Theater at "Forum am Schlosspark"

* Discussion after each presentation

Conference Office in "Forum am Schlosspark" Ludwigsburg
Phone 0170 9080121

Tuesday, March 9, 2010 – Open from 8.00 a.m. to 6.00 p.m.

Wednesday, March 10, 2010 – Open from 7.30 a.m. to 6.00 p.m.

Wednesday, March 10, 2010

- Section 3*
Chairman: R. Dorenkamp
Volkswagen AG, Wolfsburg
- 8.30 a.m. **Diesel Emission Research for Informing Air Quality and Climate Policy in California**
Dr. A. Ayala – *Climate Change and Emissions Research California Environmental Protection Agency, Air Resources Board, Sacramento, CA, USA & West Virginia University, Department of Mechanical and Aerospace Engineering, Morgantown, WV, USA*
Dr. N. Motallebi, Dr. S. Hu
Climate Change and Emissions Research California Environmental Protection Agency, Sacramento, CA, USA
- 9.00 a.m. **Current knowledge on health hazards caused by diesel engine emissions**
Prof. Dr. J. Bünger, Dr. G. Westphal
Institut für Prävention und Arbeitsmedizin der Deutschen Gesetzlichen Unfallversicherung, Institut der Ruhr-Universität Bochum (IPA)
- 9.30 a.m. **NO₂ formation on the DOC/DPF system – a system thought**
Dr. P. C. Spurk, Dr. S. Frantz, Dr. F.-W. Schütze, H.-D. Noack, W. Müller – *Umicore AG & Co. KG, Hanau*
- 10.00 a.m. Coffee Break
- 10.30 a.m. **Highly developed thermal analysis methods for the characterization of soot and deposits in urea SCR systems**
Dr. O. Kröcher, M. Elsener, M. Mehring, A. Bernhard
Paul Scherrer Institute, Villigen, Switzerland
- 11.00 a.m. **System layout and DeNO_x-Performance of a combined After-Treatment-System for Commercial Vehicles – Simulation Study and Test Bench Investigations**
L. Zimmermann, Dr. A. Traebert, R. Frey
Daimler AG, Stuttgart
T. Johansson – *MBTech Powertrain GmbH, Fellbach*
- 11.30 a.m. **Dynamic Urea Consumption Measurement in Development, Production and Application of SCR-Systems**
Dr. M. Dürrwächter, Dr. H. Kammerstetter, S. Peuse, M. Werner – *AVL Pierburg Instruments Flow Technology GmbH, Neuss*
T. Sacher, B. Hollauf
AVL List GmbH, Graz, Austria
- 12.00 p.m. **Future emission concepts for HD on-road and off-road engines – Engine internal measures or exhaust aftertreatment?**
Dr. Y. Rosefort, T. Körfer, Dr. L. Ruhkamp, Dr. A. Wiertalla, B. Kinoo
FEV Motorentechnik GmbH, Aachen
E. Koehler, M. Tatur, Dr. D. Tomazic
FEV, Inc., Auburn Hills, MI, USA
- 12.30 p.m. Lunch
- Section 4*
Chairman: Prof. Dr. H. Harndorf – *Universität Rostock*
- 2.00 p.m. **Using SCR catalysts for the additional oxidation of hydrocarbons for the thermal regeneration of a particle filter**
M. Müller, Dr. S. Schraml, Dr. P. Broll, Dr. H. Bülte – *Deutz AG, Cologne*
Prof. Dr. H. Harndorf – *Universität Rostock*
- 2.30 p.m. **Meeting the US Heavy-Duty EPA 2010 and Providing Increased Value for the Customer**
Dr. S. J. Charlton – *Cummins Inc., Columbus, IN, USA*
- 3.00 p.m. Coffee Break
- 3.30 p.m. **Challenges in the application of diesel particulate filters in combined exhaust aftertreatment systems for commercial vehicles – fundamentals of diesel particulate filter design and control strategies**
Dr. A. Maßner, Prof. Dr. U. Gärtner, M. Kemmner – *Daimler AG, Stuttgart*
- 4.00 p.m. **Application and Optimization of SCR Systems for Diesel Passenger Cars**
M. Fischer
Honda R & D Europe (Deutschland) GmbH, Offenbach
Dr. P. C. Spurk – *Umicore AG & Co. KG*
- 4.30 p.m. **Prize-Giving Ceremony and Closing Remarks**
Prof. Dr. H. Harndorf – *Universität Rostock*
D. Zuther – *AVL Deutschland GmbH*
- 5.00 p.m. **End of conference**