

The Conference Program

Tuesday, 19 February 2008

8.45 a.m. Welcome and Opening of 5th International Exhaust Gas and Particulate Emissions Forum
Prof. Dr. H. Tschöke
Otto-von-Guericke Universität Magdeburg

Section 1*
Chairman:
Prof. Dr. H. Tschöke
Otto-von-Guericke Universität Magdeburg

9.00 a.m. **Key Note Speech – EPA's Approach for Regulating Greenhouse Gasses**
C. France, *US Environmental Protection Agency (EPA), Washington D.C., USA*

9.30 a.m. **Diesel Emissions Control in the United States – 2010 and Beyond**
J. McDonald, *US Environmental Protection Agency (EPA), Washington D.C., USA*

10.00 a.m. **The MBE900 commercial vehicle engine for EPA '07 emissions regulations**
Dr. H.-O. Hermann
Daimler AG, Stuttgart

10.30 a.m. **Concepts for engines and exhaust-gas cleaning systems for heavy duty trucks of the future**
G. Emmerling, A. Döring, F. Walde,
MAN Nutzfahrzeuge AG, Nürnberg

11.00 a.m. Coffee Break

11.30 a.m. **HD Engine Technology for Near-Zero Emissions and Lowest Cost of Ownership**
Dr. S. J. Charlton
Cummins Inc., Columbus, USA

12.00 a.m. **(Partially-) Homogeneous Diesel Combustion**
Dr. C. Weiskirch,
Prof. Dr. P. Eilts
Technische Universität Braunschweig

12.30 a.m. **Exhaust gas sensors for NOx storage catalysts and ammonia-SCR systems**
Prof. Dr. R. Moos
Universität Bayreuth, Bayreuth Engine Research Center

1.00 p.m. Lunch
Section 2*
Chairman: Prof. Dr. H. Harndorf
Universität Rostock

2.30 p.m. **Sensors for modern exhaust gas after-treatment systems**
Dr. J. Riegel,
Robert Bosch GmbH, Stuttgart

3.00 p.m. **New reducing agents for low NOx-SCR technology**
Dr. O. Kröcher, M. Elsener
Paul Scherrer Institut, Villigen, Switzerland
Dr. E. Jacob
MAN Nutzfahrzeuge AG, Nürnberg

3.30 p.m. **Exhaust gas Aftertreatment on Lean Burn Gasoline Direct Injection Engines: The System of TWC and NO_x-Storage Catalyst**
Dr. M. Hilgendorff, Dr. S. Siemund, Dr. S. Stiebels, Dr. T. Neubauer, Dr. K. Wassermann
BASF Catalysts Germany GmbH, Hannover

4.00 p.m. Coffee Break

4.30 p.m. **New Platinum/Palladium-based catalyzed filter technologies for future passenger car applications**
Dr. F. Dornhaus,
Dr. M. Pfeifer, Dr. M. Schiffer,
Dr. P. Spurk, Dr. G. Jeske
Umicore AG & Co. KG, Hanau

5.00 p.m. **SESAM FTIR and Micro Soot Sensor in transient operation SCR and DPF application**
Dr. S. de Buhr, Dr. G. Bergmann
AVL List GmbH, Graz, Austria

5.30 p.m. **Development of a Roadway Hydrocarbon Sorption Model and Charac-terization of a Novel PM Generator**
M. Spears, *US Environmental Protection Agency (EPA), Washington D.C., USA*

6.30 p.m. Start of the Evening Event at „Reithaus Ludwigsburg“. Welcome Cocktail followed by Dinner

Wednesday, 20 February 2008

Section 3*
Chairman: Dr. P. Spurk
Umicore AG & Co. KG

9.00 a.m. **Requirements for current and future particulate measurement instrumentation from the point of view of the Physikalisch-Technische Bundesanstalt**
Dr. P. Ulbig
Physikalisch-Technische Bundesanstalt, Braunschweig

9.30 a.m. **Standardized dilution conditions for gravimetric PM sampling – measures to assure results that correlate**
W. Silvis, *AVL North America, Plymouth, USA*
Dr. W. Schindler, *AVL List GmbH, Graz, Austria*

10.00 a.m. **Particle Counting according PMP**
M. Linke, Dr. A. Bergmann,
Dr. W. Schindler
AVL List GmbH, Graz, Austria

10.30 a.m. **Future high-confidence measurement of diesel particulate emissions for approval and development**
Dr. M. Mohr
EMPA, Dübendorf, Switzerland

11.00 a.m. Coffee Break

11.30 a.m. **New developments in optical instrumentation for exhaust gas**
Dr. A. Lambrecht
Fraunhofer Institut für Physikalische Messtechnik, Freiburg

12.00 a.m. **Simultaneous Detection of Gaseous and Particulate Exhaust Components by Photoacoustic Spectroscopy**
Dr. C. Haisch, Prof. Dr. R. Nießner
Technische Universität München

12.30 a.m. **Boundaries of modern exhaust gas instrumentation**
K. Engeljehring
AVL List GmbH, Graz, Austria

1.00 p.m. Lunch
Section 4*
Chairman: Prof. Dr. J. Krahl
Fachhochschule Coburg

2.30 p.m. **DPF system evolution in Euro 5 FPT applications**
M. Pidria, M. Tonetti, E. Barucchi
FIAT Powertrain Technologies, Torino, Italien

3.00 p.m. **Diesel engine soot and NOx emission modeling**
Dr. S. P. Wenzel
Robert Bosch GmbH, Stuttgart
M. Willmann
Ehem. Volkswagen Nutzfahrzeuge, Wolfsburg
Prof. Dr. H. Tschöke
Otto-von-Guericke Universität Magdeburg

3.30 p.m. **Raising quality and reducing application effort through efficient data input to the particulate filter load model for a EURO5 diesel car**
T. Cartus, H. Herrmuth,
G. Seewald, P. Lesser
AVL List GmbH, Graz, Austria

4.00 p.m. **Stop-start operation of diesel engines – modified requirement for exhaust gas after-treatment?**
Dr. P. Spurk, H.-D. Noack
Umicore AG & Co. KG, Hanau
S. Gerhard, Dr. B. Zelenka
Technische Universität Darmstadt

4.30 p.m. **Particulates emission with Biodiesel – B30 impact on CSF management**
F. Pissavin, A. Gendron
Renault Automobiles SA., Lardy, France

5.00 p.m. **Prize-Giving Ceremony and Closing Remarks**
P. Ziegler
AVL Europe, Wiesbaden
Prof. Dr. H. Tschöke
Otto-von-Guericke Universität Magdeburg

* Discussion after each presentation