

# 1st International Exhaust Emissions Symposium and Opening of New Emissions Testing Laboratory 20/21 May 2010

The main drivers that have an influence on current and future personal transportation development are:

- climate change as the biggest environmental challenge - strong action dedicated to the contribution of the transport sector to the reduction of greenhouse gas emissions, global CO2 legislation targets for new passenger cars (PC) and light commercial vehicles (LCV),
- emissions regulation development at European, US and Asian levels, regulation as an incentive for innovation (examples: Euro 5 and Euro 6, US Tier 2, LEV II - SULEV, 2009 Japanese long-term regulations, new hydrogen vehicle regulations, etc.).

Road transport emissions are responsible for around 20 per cent of all greenhouse gas emissions in the European Union. In 2009 the EU revealed a package of energy-related legislation concerning improvements in vehicle efficiency and the composition of the range of transport fuels.

At the First International Exhaust Emissions Symposium, experts from automotive and engine manufacturers and their suppliers will discuss all these emissions-related issues and will report on the current status, trends and the near future regarding engine exhaust gas emissions.

**Dear Customers, Friends and Colleagues,**

*On behalf of the BOSMAL Engineers' Society, the Symposium Organizing Committee and myself, I would like to invite you to participate in the First International Emissions Symposium which will be held at BOSMAL in Bielsko-Biała, Poland.*

*Attendees will gain knowledge about a variety of subjects being presented on gaseous and particulate matter emissions; emissions legislation trends; emissions testing methods and equipment; development trends in vehicular technology concerning improvements in emissions results and fuel consumption; the composition of transport fuels and their influence on emissions. It will be a great opportunity to obtain the latest information on the above-mentioned issues and to exchange your opinions with your colleagues. This year, BOSMAL has constructed a new Euro 5/6 emissions testing laboratory that was designed for various vehicles' development and emissions/fuel consumption reduction tests. The official opening of this new, sophisticated emissions laboratory will form part of our meeting.*

*Therefore, it is my great pleasure to invite you all to this highly significant event.*

*Antoni Świątek, D.Sc.,  
Managing Director*



## General information:

### Venue:

BOSMAL Automotive Research  
& Development Institute  
Ul. Sarni Stok 93  
43-300 Bielsko-Biała  
Poland

**Symposium language:**  
English

### Registration:

Please register by April 30, 2010 at the latest, by e-mail

### Hotel:

Parkhotel Vienna  
ul. Bystrzańska 48, 43-309 Bielsko-Biała  
Phone: +48 33 496 62 66  
[reservation@vienna.pl](mailto:reservation@vienna.pl)  
<http://www.vienna.pl>

### Organising Committee:

- Piotr Bielaczyc, Ph.D.,
- Arkadiusz Stojcki,
- Andrzej Szczotka, Ph.D.,
- Piotr Pajdowski, Ph.D.,
- Andrzej Suchecki, Ph.D.,
- Joseph Woodburn,
- Klaudiusz Waniółka,
- Marzena Grygierek,
- Agnieszka Kaźmierczak.

### Direct flight connections from:

- Turin, Milan, London, Frankfurt, Paris, Munich etc. to Katowice - KTW (Pyrzowice),
- Milan, London, Vienna, Roma, Munich etc. to Krakow - KRA (Balice).

### Please address any organisational questions to:

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Mr. Klaudiusz Waniółka, [klaudiusz.waniolka@bosmal.com.pl](mailto:klaudiusz.waniolka@bosmal.com.pl), phone: +48 33 8 130 545

### The official sponsors of the symposium:



## **The Symposium Programme:**

**Thursday, May 20, 2010**

**9:00 - 9:15 - Welcome and opening of the 1st International Exhaust Emissions Symposium**

**9:15 - 11:15 - Session I - Emissions legislation and test method development**

**Chairman: Dr Piotr Bielaczyc, BOSMAL, Poland**

- 1. Piotr Bielaczyc, BOSMAL, Poland:** *Exhaust Pollutants and CO<sub>2</sub> Emissions Reduction as the Main Drivers of Automobile Powertrain Development*
- 2. Les Hill, Horiba Europe, UK:** *Future Trends in Emissions Certification Legislation and some Implications for Measurement Techniques*
- 3. Kurt Engeljehringer, AVL, Austria:** *Emission Testing of Modern Vehicle Concepts*
- 4. Rudi Kreuzer, Weiss Umwelttechnik, Germany:** *Changes in the new Euro 5 and Euro 6 Regulations and the Consequences for the Test Chamber Design.*

**11:15 - 11:45 - Opening ceremony of BOSMAL's new emissions testing laboratory**

**11:45 - 13:15 - Session II - Catalyst technology/ emissions reduction methods**

**Chairman: Prof. Jerzy Merkisz, Poznan Tech. University - BOSMAL, Poland**

- 1. Gerardo Carelli, P.C. Spurk, S. Frantz, F.-W. Schütze, H.-D. Noack, Umicore, Italy-Germany:** *The Challenge of Preparing an Effective Diesel Euro 6 Catalyst System*
- 2. Keijo Torkkell, Ecocat, Finland:** *Catalyst Technology Development for Euro 5 and 6 Regulations*
- 3. Paolo Giardina Papa, Mecaprom, Italy:** *Ultimate Exhaust Emission Reduction: Hybrid Technologies Enter the Key Players List*
- 4. Chris Whelan, WDL- BOSMAL Consultant, UK:** *Charge Air Turbo-Expansion Systems for IC Engines - no oral presentation*

**13:15 - 14:15 - Lunch**

**14:15 - 15:45 - Session III - Engine fuel and oil development - part I**

**Chairman: Prof. Miroslaw Wyszynski, Birmingham University, UK**

- 1. Pietro Scorletti, Eni, Italy:** *Fuel Quality Evolution in Europe*
- 2. Federico Guglielmone, GMPT-E, Italy:** *Alternative Diesel Fuels Effects on Combustion and Emissions of Diesel Engines*
- 3. Michele Fucale, FPT, Italy:** *Automotive Powertrain Development: Fuels, Lubricants and Aftertreatment as Engineering Components*

**15:45 - 16:00 - Coffee break**

**16:00 - 17:30 - Session IV - Engine fuel and oil development - part II**

**Chairman: Dr Andrzej Szczotka, BOSMAL, Poland**

- 1. Miroslaw Wyszynski, Honming Xu, A. Tsolakis, Birmingham University, UK:** *Biofuel Reforming Effects on Emissions*
- 2. Roberto Peirano, Gianni Cecconello, Petronas, Italy:** *Impact of Low Ash Lubricants on DPF Functionality for Light-Duty Applications*
- 3. Agnieszka Sniegula, PKN Orlen, Poland:** *Challenges Regarding the Quality and Compositions of Fuels for Reducing Exhaust Emission*

**20:00 - Barbecue and social meeting in the Beskid mountains**

**Friday, May 21, 2010**

**10:00 - Visit to BOSMAL's laboratory facilities Opportunity for bilateral meetings**

# Bielsko - Biała

