

Abgasprüfstelle (AFHB)
Contrôle des gaz d'échappement
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Berner Fachhochschule
Haute école spécialisée bernoise
Technik und Informatik, Biel
Technique et informatique, Bienne

Reducing Pollution from Transport – actual challenges and developments

**Jubiliary Workshop: 30 Years AFHB, 20 Years Collaboration BAFU / AFHB,
3. April 2009, Aula**

Technical Program

April 3rd, 2009

- 09:00 – 09:40 arrival of participants & coffee
- 09:40 – 09:50 welcome address Jan Czerwinski, AFHB
- 09:50 – 10:00 opening speech Lukas Rohr, Director, BFH TI
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- 10:00 – 10:25 **Air Pollution Control in Switzerland**
Martin Schiess
Federal Office for the Environment, (FOEN / BAFU), 3003 Bern, Switzerland
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- 10:25 – 10:50 **1974 – The Key for the Laboratory of Exhaust Emission Control (AFHB)**
Kurt Meyer, Head of Vehicles of the Road Traffic Division, (retired)
Federal Roads Office (FEDRO / ASTRA), 3003 Berne, Switzerland
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- 10:50 – 11:15 **Low Carbon Motor Vehicle Fuels – Challenges and Opportunities**
Christian Bach, Head of Laboratory for Internal Combustion Engines
*Empa, Swiss Federal Laboratories for Materials Testing and Research,
8600 Duebendorf, Switzerland.*
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- 11:15 – 11:40 **Cost-Effectiveness of Emission-Retrofit-Kits for HDV**
Andreas C.R. Mayer
Technik Thermische Maschinen (TTM), 5443 Niederrohrdorf, Switzerland
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- 11:40 – 12:05 **JRC Scientific Support to European Policies for the Reduction of Transport Emissions**
Alois Krasenbrink, Giorgio Martini, Covadonga Astorga
EC-JRC, Transport and Air Quality Unit, 21020 Ispra (VA), Italy
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- 12:05 – 13:30 lunch break



13:30 – 14:00 Real-world CO₂ and NO_x Emissions of SUVs with Gasoline-Hybrid and Diesel Powertrain

Ernst Pucher, Luis Cachón, Daniel Tóth,
Vienna University of Technology, Institute for Internal Combustion Engines and Automotive Engineering, A-1040 Vienna Austria

14:00 – 14:30 Challenges of Sustainable Transport: Providing Mobility while Conserving Energy and Environment

¹Yoram Zvirin, ¹Leonid Tartakovsky, ² Michel Parent
¹*Internal Combustion Engines Laboratory, Faculty of Mechanical Engineering Technion, Israel Institute of Technology, 32000 Haifa, Israel*
²*Head, IMARA Program: Informatique, Mathématique et Automatique pour la Route Automatisée, INRIA-Rocquencourt, France*

14:30 – 15:00 Hybrid Vehicle Sustainability Evaluation

Adriano Alessandrini, Francesco Filippi, Fernando Ortenzi
CTL (Centre for Transport and Logistics), Sapienza, University of Rome, 00184 Rome, Italy

15:00 – 15:30 coffee break

15:30 – 16:00 Nanoparticle Filtration for Vehicle Cabins

¹Heinz Burtscher, ¹Siegfried Loretz, ¹Alejandro Keller, ²Andreas Mayer,
³Markus Kasper, ⁴Richard John Artley, ⁴Ralph Strasser, ⁵Jan Czerwinski
¹*University of Applied Sciences, Northwestern Switzerland, 5210 Windisch, Switzerland*
²*Technik Thermische Maschinen, TTM, 5443 Niederrohrdorf, Switzerland*
³*Matter Engineering, 5610 Wohlen, Switzerland*
⁴*ETeCH, 8952 Schlieren, Switzerland*
⁵*Abgasprüfstelle (AFHB) Biel, 2560 Nidau, Switzerland*

16:00 – 16:30 Activities of AFHB in the Retrospective: Reducing Pollution from Engines

(AFHB), Jan Czerwinski, Head of Laboratories for IC-Engines & Exhaust Emission Control
Berne University of Applied Sciences Biel (BFH TI), 2560 Nidau, Switzerland

16:30 – 17:00 Discussion & closing remarks

Jan Czerwinski, AFHB

17:00 (approx.) end

Language : English