

UIC Railway Energy Efficiency Conference (10/11 May 2000)

Wednesday, 10 May 2000

8 a.m. - 9 a.m. Conference Registration

9 a.m. to 9.30 a.m. Welcome

- Introduction to the conference by Mr. Jacques Cornet (Deputy Chief Executive, UIC, Paris)
- Strategy of the EU Energy and Transport Directorate (Mr. Hanreich, DG TREN, EU Commission)
- Energy efficiency of railways by Mr. Dominique Maillard (Directorate on energy and primary energy sources, Ministry of Industry, France)

9.40 a.m. – 12.30 a.m. General Energy Management

Chairperson: Lars Johansson, University Professor and Environmental Director, SJ, Sweden

- General information on energy consumption on Russian railways (Dr. Mouchgintin, Dr. Pokrovskij, All-Russian Railway Research Institute, Moscow)
- A strategy for a comprehensive energy management policy in a deregulated market (Johann Pluy, ÖBB, Austria)

10.30 a.m. – 11.00 a.m. Coffee Break

- Optimisation of energy consumption using a traffic management system (Richard Koch, Nedtrain Consulting, NL)
- Improved energy efficiency in future rail traffic – Results and conclusions from recent Swedish research (Prof. Evert Andersson, Royal Institute of Technology, Sweden)
- Improvements envisaged by industry (Alstom)

12.30 a.m. – 2.00 p.m. Business Lunch

2.00 p.m. – 5.30 p.m. Energy Requirements for Existing and New Vehicles

Chairperson: Leo van Dongen, Head of the Rolling Stock Department, NS

- Tractive energy savings at NS Reizigers (Leo van Dongen, Wilco Fiechter, NS)
- Energy-efficient cooling systems for electric traction units (Dr. Peter Slattenscheck, ÖBB, Austria)
- LCC and LCA for rail vehicles (G. Ragusa, G. Piro, FS)

3.30 p.m. – 4.00 p.m. Coffee Break

- Energy efficiency in rolling stock: what philosophy for UIC technical leaflets (Conrad U. Brunner, Enper Team, Switzerland)
- The Nordic Environmental Manual – Green procurement standards (Lars Johansson, SJ, Sweden)
- UNIFE comments on the Nordic Environmental Manual (Sylvain Huleux, Alstom)
- RAVEL – a standardised way to communicate environmental information (Åsa Ander, Adtranz, Sweden)

Thursday, 11 May 2000

9.00 a.m. – 12.30 a.m. Engine and Fuel Technology for Sustainable Development

Chairperson: Thomas Edwards, Vice President Advanced Technology, Adtranz, Germany

- Results of UIC market research on innovative traction systems (Dr. Ulrich Höpfner, Jens Borken IFEU, Germany)
- Consideration on exhaust emission optimisation of diesel engines for rail traction (Dr. K. Schreiner, Euromot, Germany)
- Exhaust emission values for large diesel engines (Walt Brown, American Engine Manufacturer Association)
- BR360 shunting locomotive with LNG propulsion on DB AG (Dr. F. Hörll, DB AG, Germany)

10.30 a.m. – 11.00 a.m. Coffee Break

- Fuel cell technology for rail vehicles (Thomas Edwards, Adtranz, Germany)
- Reduction of energy consumption in traction systems with superconducting transformers (Wolf Dieter Weigel, Siemens, Germany)
- Energy storage on urban railway vehicles (Frank Hentschel, Daimler Chrysler AG)

12.30 a.m. – 2.00 p.m. Business Lunch

2.00 p.m. – 5.00 p.m. Policy Options and Instruments for Sustainability

Chairperson: Lee Schipper, Visiting Senior Scientist, International Energy Agency, Paris

- Energy trends in transport (Lee Schipper, International Energy Agency, Paris)
- Ecolabelled electricity for railway energy supply (Caroline Hopkins, Swedish Society for Nature Conservation, Sweden)
- Public relations work for energy efficiency – DB AG and WWF Germany publish a mobility audit (Ulrich Ostermayer, DB AG, Germany)

3.30 p.m. – 4.00 p.m. Coffee Break

- External costs of transport (Markus Maibach, Infrac, CH)
- Energy statistics and railway emission inventories (Prof. Spencer C. Sorenson, Technical University of Denmark, DK)

5.00 p.m. – 5.30 p.m. Conference Conclusions by Mr. Gunther Ellwanger (UIC)