

postage

Empa
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Switzerland

■ About Empa

Empa (Swiss Federal Institute of Materials Science and Technology) was established 125 years ago as the ETH domain's institution for multidisciplinary research into sustainable materials and systems engineering.

■ Local Organizing committee

Peter Hofer, Christian Bach, Brigitte Buchmann,
Erika Hirschle, Empa

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■ Registration Fee

Including welcome reception, book of abstracts, lunch, coffee and conference dinner: CHF 460.–

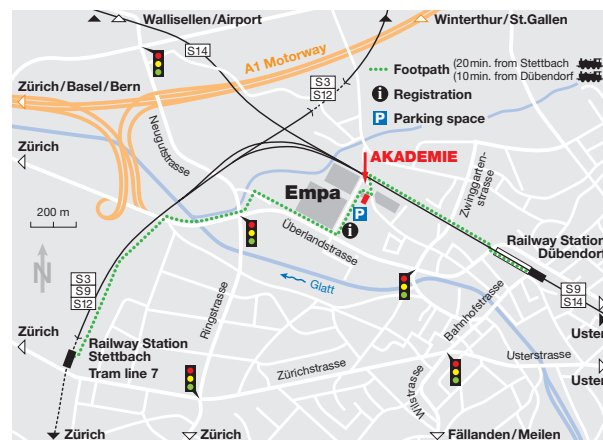
Reduced fee for PhD-Students: CHF 280.–

Registrations will be taken in account according incoming order. For cancellation conditions see registration form.

■ Accommodations

www.zuerich.com/

■ Directions



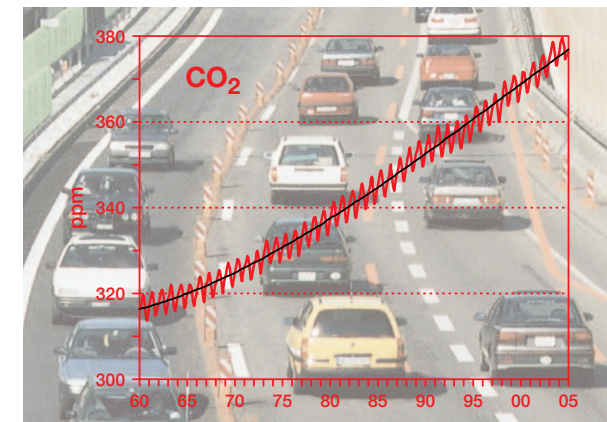
RESEARCH
THAT INSPIRES
125
years of Empa

Zentrum für Wissenstransfer

International Conference on

Low Carbon Fuels

Methane and Hydrogen
based Mobility



Empa, 8600 Dübendorf, Switzerland
AKADEMIE, Überlandstrasse 129

November 07–08, 2005

Registration online at
www.empa.ch/lowcarbon
lowcarbon@empa.ch

■ Goals of the conference

Individual mobility and large capacities for the transport of goods are not only a result but also a prerequisite of modern society. As a consequence traffic is responsible for a considerable amount of the carbon dioxide emissions which increase the risk of a climate change.

The use of low carbon fuels might be a technical answer to this problem. The goals of the conference are:

- to illuminate the energy demand of mobility within the whole power economy
- to give an overview of the potential of a methane based mobility
- to outline the future way to a hydrogen society
- to discuss the boundary conditions for a hydrogen society set by the environment, economy and society
- to give an idea of the role of the different actors in the field of mobility

■ Call for Posters

You are invited to bring posters with you. There will be a poster session during the discussion-lunch of the first day. Please send the abstract via E-mail, they will be included in the conference documentation.

■ Programme

Monday, November 07, 2005: Methane based Mobility

- 08.15–09.00 Registration, Coffee
- 09.00 Welcome
- 09.10 **The Swiss energy supply – and the changes required to move towards more sustainability**
Dr Tony Kaiser, President of the Swiss Federal Energy Research Commission (CORE)
- 09.40 **Future fuels for transportation – a helicopter view on the overall energy system**
Prof. Dr Konstantinos Boulouchos, ETH Zurich
- 10.20 **Methane from biomass – a domestic CO₂-neutral fuel**
Prof. Dr Alexander Wokaun,
Paul Scherrer Institute
- 11.00 **Coffee**
- 11.30 **Advanced control of methane-gas powered engines**
Prof. Dr Lino Guzzella, ETH Zurich

- 12.10 **Combustion of gaseous fuels in internal combustion engines**
Prof. Dr-Ing. A. Leipertz, LTT-Universität Erlangen
- 12.50 **Discussion-lunch – Poster session**
- 14.50 **Dedicated powertrain technology for methane powered cars**
Dr Patrik Soltic, Empa
- 15.30 **Concept of an exhaust gas aftertreatment for methane powered vehicles**
Christian Bach, Empa
- 16.10 **Coffee**
- 16.40 **Ecological and energy systems aspects of natural gas and biogas as an engine fuel**
Dr Stephan Ramesohl,
Wuppertal Institut für Klima, Umwelt, Energie
- 17.20 **The influence of a methane or a hydrogen based mobility on the atmosphere**
Dr Brigitte Buchmann, Empa
- 18.00 **End of the first day**
- 19.00 **Apéro, Conference-Dinner**

Tuesday, November 08, 2005: from methane to hydrogen – vision or utopia

- 09.00 **The hydrogen society**
Prof. Dr A. Reller, University of Augsburg
- 09.40 **Storage of hydrogen**
Prof. Dr Louis Schlapbach, CEO of Empa
- 10.20 **Coffee**
- 10.50 **Elektrochemical use of hydrogen in cars**
Dr Philipp Dietrich, Paul Scherrer Institute
- 11.35 **The hydrogen-society of Iceland**
Prof. Thorsteinn Sigfusson, University of Iceland
- 12.20 **Lunch**
- 14.00 **Methane and hydrogen and the car industry – defence, tolerance or leadership?**
Dr Wolfgang Steiger, Volkswagen AG
- 14.40 **European research towards a carbon lean mobility**
Erich Nägele,
European Commission, DG RTD J3
- 15.20 **Social acceptance of alternative fuels and the need for public-private partnerships**
Dr S. Lienin, Director, Sustainserv
- 16.00 **End of the conference**

Registration Form



International Conference on Low Carbon Fuels Methane and Hydrogen based Mobility

November 07–08, 2005

Empa, Überlandstr. 129, CH-8600 Dübendorf, Switzerland

I would like to attend the conference

Ms Mr Dr Prof.

Name _____

First Name _____

Affiliation _____

Address _____

Phone _____

Fax _____

E-mail _____

Date _____

Signature _____

I intend to present a poster

I will be accompanied by Persons

Registration deadline: October 14, 2005

Cancellation

Full refunds will be made until October 14. After October 14 an administrative fee of CHF 100.– will be charged.

Please fax or mail to the conference office or register via our website www.empa.ch/lowcarbon