



Scientific programme

Tuesday June 13, 2006

- 08:45** **Opening of the Conference**
Chairman of the Session:
Lars Sjunnesson, President of the European Hydrogen Association
- Welcome
Nejat T. Veziroglu, President of the International Association for Hydrogen Energy
Thierry Alleau, President of the French Hydrogen Association
Jean-Jack Queyranne, Président du Conseil Régional Rhône-Alpes
- 09:10 Introduction
François Loos, Minister of Industry, France
Janez Potocnik, Commissioner for Science and Research, European Commission
- 09:45 Evolution of world energy demand in the 21st century
Fatih Birol, Head of Economic Division, International Energy Agency
- 10:15 Hydrogen vehicles in China
Gang Wan, president, Tongji University, China
- 10:30** **COFFEE BREAK**
- 11:00** **Environment and sustainable development**
Chairman of the Session:
Olivier Appert, Chairman and CEO, Institut Français du Pétrole, France
- 11:00 The future of our climate
Jean Jouzel, CEO of Pierre Simon Laplace Institute and Research, Director at CEA, France
- 11:30 Hydrogen, an energy vector
Amory Lovins, CEO Rocky Mountain Institute, USA

12:00 **Round Table: can hydrogen mitigate greenhouse gases concentration ?**

Moderator:

Oliver Appert, Chairman and CEO, Institut Français du Pétrole, France

Participants:

Fatih Birol, Head of Economic Division, International Energy Agency

Amory Lovins, CEO, Rocky Mountain Institute, USA

David Sanborn Scott, Founding Director, Institute for Integrated Energy Systems,
University of Victoria, Canada

Jean Jouzel, CEO of Pierre Simon Laplace Institute and Research, Director at CEA,
France

13:00 **LUNCH**

14:30 - 18:30 Parallel Sessions

Wednesday June 14, 2006

08:30 **Hydrogen supply chain**

Chairman of the Session:

Marc Florette, Executive Director and Vice President R&D, Gaz de France

08:30 Industrial view of hydrogen energy

François Jackow, Vice President Research and Development and Advanced
Technologies, Air Liquide, France

09:00 Future means of hydrogen production

Alain Bugat, Chairman and CEO, Atomic Energy Commission (CEA), France

09:30 Capture and storage of CO₂

Franck Torbjørn Ellingsen, Head of Research Center, Hydro Oil & Energy, Norway

10:00 Decentralized systems and distribution

Hugo Vandenborre, Co-Founder & Chairman, Hydrogenics Europe NV

10:30 **COFFEE BREAK**

11:00 **Hydrogen programs and projects**

Chairman of the Session:

Pablo Fernandez Ruiz, Director for Energy, European Commission

11:00 USA

Steven Chalk, US Department of Energy's Hydrogen Program Manager, USA

11:20 Europe

Jeremy Bentham, Chairman Advisory Council of the European Hydrogen and Fuel

Cell Platform (HFP)

- 11:40 Hydrogen programs for Asian Countries
Ken-Ichiro Ota, Yokohama University, Japan
- 12:00 Canada's hydrogen and fuel cell program and the international context
Nick Beck, Natural Resources of Canada, Canada
- 12:20 Prospects for hydrogen and fuel cells
Giorgio Simbolotti, Principal Administrator, International Energy Agency
- 12:40 Global harmonization of Regulations, Codes and Standards (RCS): hydrogen -
towards a cleaner environment
Randy Dey, Chairman of ISO TC 197, Canada
- 13:00 WHEC 17 Announcement
Andrew Dicks, University of Queensland and Chairman, Organizing Committee,
WHEC 2008, Australia

13:10 LUNCH

14:30 - 18:30 Parallel Sessions

Thursday June 15, 2006

08:30 Hydrogen in vehicles
Chairman of the Session:
Dan Sperling, UC Davis, USA

08:30 Keynote speaker:
Carl-Peter Forster, CEO General Motors Europe

09:00 The bumpy road to hydrogen
Dan Sperling, UC Davis, USA

09:30 Round table: Hydrogen on the road
Moderator:
Pierre Beuzit, Director for Energy, Renault, France

Participants:
Carl-August Graf von Kospoth, BMW, Germany
Klaus Bonhoff, DaimlerChrysler AG, Germany
Thomas Brachmann, Honda R&D Europe, Germany
Patrick Oliva, Michelin, France
Tamura Hideyuki, Nissan, Japan
Bruno Costes, PSA Peugeot-Citroën, France

11:00 COFFEE BREAK

11:30 Fuel Cell Systems

Chairman of the Session:

Philippe Paulmier, Director Marketing, Air Liquide / Axane, France

11:30 Stationary fuel cells: state of development and applications within the electric power enterprise

Dan Rastler, Technical Leader, Distributed Energy Resource and Hydrogen Programs
Electric Power Research Institute, USA

11:55 Fuel cells for backup power - a compelling first-mover market

Pierre Rivard, CEO Hydrogenics, Canada

12:20 Micro hydrogen systems for portable power applications

Ged McLean, CTO, Angstrom Power, Canada

12:45 Posters Awards

13:10 LUNCH

14:30 - 18:30 Parallel Sessions

Friday June 16, 2006

08:30 Hydrogen Economy

Chairman of the Session:

Claude Mandil, Executive Director, International Energy Agency

08:30 Creating a global hydrogen business

Duncan Macleod, Vice President, Shell Hydrogen, The Netherlands

09:00 An Energy Company's Perspective

Mike Jones, Vice President of Hydrogen Mobility, BP

09:30 Making the transition to the third Industrial Revolution and a new energy era

Jeremy Rifkin, President of the Foundation on Economic Trends (FOET), USA

10:15 COFFEE BREAK

10:30 Financing and Public Acceptance

Chairman of the Session:

Maurice Gunderson, Nth Power LLC, USA

10:30 Financing the industrial development of hydrogen: a venture capitalist's perspective
Robert Shaw, President Areté Corporation, USA

11:00 Public acceptance
Maurice Gunderson, Nth Power LLC, USA

11:30 Round Table: A future for hydrogen

Chairman of the Session:

François Guinot, Chairman, Académie des Technologies, France

Moderator:

Tapan K. Bose, President and CEO, Hydrogen Engine Center, Canada

Overview of technological and economical challenges, innovations, lessons to be learnt from the Conference.

Participants

Bernard Frois, Directeur de la Délégation Agence Nationale de la Recherche-Nouvelles Technologies de l'Energie, France

Jeffrey Serfass, President, National Hydrogen Association, USA

Kenzo Fukuda, Institute of Applied Energy, Japan

12:30 Closing Session

Philippe Busquin, Member of the European Parliament

Patrick Gandil, Secrétaire Général du Ministère des Transports, de l'Équipement, du Tourisme et de la Mer

13:15 End of the Conference and closing Lunch