



AEA 2008

4th European Conference on Alternative Energies for the Automotive Industry

**Futuroscope - Poitiers, France
April 2 & 3, 2008**

**CALL FOR PAPERS
AND FIRST
ANNOUNCEMENT**



CONTEXT AND OBJECTIVES

The success of the 2006 edition of the congress on "Alternative Energies for the Automotive Industry" (AEA) revealed a valued overview of new technologies in the field of alternative energies. The constantly rising global warming threat and increasing oil prices strengthen the need for addressing the latest developments of such fast growing technologies and for deepening the debate on these thematic issues.

In partnership with the French Environment and Energy Management Agency (ADEME), the French Society of Automotive Engineers (SIA) and the Mobility and Advanced Transportation Competitiveness Cluster (MTA Cluster) decided to jointly organise the 2008 edition of this congress with special emphasis on Alternative Energies for passenger and freight transport, and technologies under development to reduce Greenhouse Gases and specifically CO₂ emissions. Special emphasis will be made on the latest technology developments in the thematic sessions.

The call for papers will be focused on 2 topics:

1. Technologies for Hybrid and Electric Vehicles, including Fuel Cell Vehicles: Electric energy storage, vehicle configurations for hybrid powertrains, applications and projects related to hybrid vehicles (cars, light/heavy duty trucks, buses, etc.) as well as the prospective actions and the experience feedbacks about HEV.

2. Alternative fuels capable of meeting low CO₂ emission targets:

Synthetic fuels, fuels stemming from lignocellulosic biomass, gaseous fuels such as hydrogen etc.

This conference is expected to gather automotive industry engineers, experts, and researchers worldwide during a two day schedule. It is also an opportunity to exchange information on the latest technological achievements.

Chairman of the conference :

G rard Marie MARTIN - Chairman of the Technical Committee Equipment, Components and Systems, SIA

ORGANISING COMMITTEE

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Paul TERRIEN - Mobility & Advanced Transportation Competitiveness Cluster - MTA

Bertrand VAYSSE - SIEMENS VDO

TOPICS TO BE ADDRESSED

Topic 1 - Technologies for Hybrid and Electric Vehicles (including Fuel Cell Vehicles)

1.1. Hybrid Propulsion Vehicles: Hybrid propulsion systems configuration, energy management, integration of electrical machines and power electronics in advanced powertrain, impact on CO₂, pollutant and noise emissions

1.2. Hybrid Vehicle Applications – from micro hybrid to full hybrid (including plug-in hybrid) in all types of vehicles: passenger cars, light/heavy duty vehicles, buses: results from experimentations and/or using new simulation tools

1.3. Reversible Energy Storage Subsystems for road hybrid and electric vehicles applications

1.4. Battery Vehicles for Urban and/or Countryside Usage: innovations in progress, vehicle to grid (V2G)

1.5. Fuel Cells – Small power applications: from Auxiliary Power Unit (APU) up to Fuel Cell / Battery Hybrids, range extenders, etc.

1.6. Fuel Cells – Medium to high power applications: from high performance electric road vehicle up to bus and truck applications.

1.7. Testing procedures and standardization

Topic 2 - Alternative Fuels aiming at reaching low CO₂ emission targets

All alternative fuels able to meet the aims of low CO₂ emissions and low Greenhouse Gases in general are to be reviewed from their sources, formulation, results and economical and technical performances.

2.1. Synthetic Fuels, such as Gas-to-Liquid (GTL)

2.2. Fuels from Biomass such as Biomass-to-Liquid (BTL), Ethanol, Biodiesel, etc.

2.3. Natural Gas, Biogas

2.4. Hydrogen: Production, Distribution and Storage

2.5 Other fuels.

Papers covering not only the potential reduction of CO₂ emissions, but also Well-to-Wheel analysis of the total cost, lifecycle, process, logistics, and renewable resources and recycling aspects will be particularly appreciated.

Audience expected: Project Managers, Engineers and Researchers from the Automotive Industry: Car Manufacturers, tier 1 and tier 2 Suppliers, Research Agencies, Consultants.

Experts in the fields mentioned who wish to contribute to the success of the conference are requested to submit English written abstracts before October 15, 2007.

AUTHOR'S INSTRUCTIONS

Your proposal should include:

- The title of your paper
- Information about its author(s) (title, full name, position, company, address, department, telephone and fax numbers, e-mail address, together with brief biographical details) clearly indicating the lead author (speaker)
- The conference topic addressed by your proposal
- A summary of no less than 30 lines

It should be sent to us in an electronic format (Word or Pdf file).

Additional information:

Speakers will be allocated 30 minutes each (20 minutes for presentation and 10 minutes for questions). All necessary instructions for the preparation of papers will be sent to the selected authors in due course.

Conference language: English (no simultaneous translation)

Deadlines:

- Proposals for papers must reach us by **October 15, 2007**.
- The list of papers will be selected by the organizing and scientific committees. The authors will be notified accordingly by **December 15, 2007**.
- Before **January 31, 2008**, the selected authors must submit a text on their presentation for inclusion in the conference proceedings.

Abstracts should be addressed in an electronic format (Word or Pdf file) to:

SIA / Clémence BENOIT

Tel: +33 (0)1 41 44 93 75 - email: clemence.benoit@sia.fr

SCIENTIFIC COMMITTEE

Yoshitaka ASAKURA - TOYOTA Motor Corporation

François BADIN - INRETS

Joseph BERETTA - PSA PEUGEOT CITROEN

Jean-Christophe BEZIAT - RENAULT

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