



AEA 2008

4th European Conference on Alternative Energies for the Automotive Industry

PROGRAMME

April 2 & 3, 2008

Futuroscope Poitiers • France



in partnership with :

ADEME



Agence de l'Environnement
et de la Maîtrise de l'Énergie



Wednesday, April 2nd

09:00 - **Opening session /Amphitheatre 300**

•Held together with MUTA

Paul RIVAULT, Président du Pôle MTA
Jean-Pierre COURONNE, Président de la SIA
Marc GASCON, Président du CEVEQ
Alain CLAEYS, Député-Maire de Poitiers
Claude BERTAUD, Président du Conseil Général de la Vienne
Jean-Pierre RAFFARIN, Ancien Premier Ministre, Sénateur de la Vienne
Bernard FRAGNEAU, Préfet de la Région Poitou-Charentes
Animation : Denis CHEISSOUX, Journaliste France Inter

10:00 - **Keynote Speech**

•Towards the massive deployment of electric cars
Jérôme PERRIN - Renault

10:30 - **Keynote Speech**

•Evolution of the Toyota Hybrid System
Gerald KILLMANN - Toyota Motor Europe

Session 1: Hybrid Vehicles /Amphitheatre 300

Session Chair: Gonzalo HENNEQUET - Renault

11:00 **Technological steps for range extension of Valeo systems as affordable solutions in micro-hybrid applications**

D. RICHARD, J.-C. MATT, C. PLASSE, A. DE VRIES, B. ROULEAU,
J.-M. DUBUS, Y. DUBEL - Valeo, France

11:30 **Plug-in Hybrid Electric Vehicle E-4WD type Danut**

Gabriel MARINESCU, Ion TABACU, Adrian CLENCI, Stefan TABACU,
Florin SERBAN - University of Pitesti, Romania

12:00 **Synergies among FC and ICE Hybrid Vehicles**

Ferdinand PANIK, Ying HUANG - University of Applied Science, Germany
Markus ESPIG, Martin SCHÜSSLER - RWTH Aachen, Germany
Vittorio RAVELLO, Paolo DOVANO, Federico GENTILI - Centro Ricerche FIAT, Italy

12:30 **Lunch • Exhibition visit • Vehicles demonstration**

14:00 **The Application of Hybrid Technologies to Defence Sector Vehicles**

Richard GORDON - Ricardo UK Ltd, UK
Rob ELLIS - Ricardo Inc, USA
Manfred R. HEEG - L-3 Communications Magnet-Motor GmbH, Germany
Mike PARSONS - QinetiQ, UK
Rich RIO - Danaher Motion, USA

14:30 **Hybrid trucks: from concept to field demonstration**

Thierry PERRET, Thomas JUSTIN - Renault Trucks

Session 2: Advanced Batteries /Amphitheatre 300

Session Chairs: Kasuaki UTSUMI - NEC Lamillon, Guillaume DEVAUCHELLE - Valeo

15:00 **Keynote Speech**

•Li-ion for Hybrid Vehicle, ready for market introduction
Philippe BLANCHARD - Johnson Controls Saft

15:30 **Development of Laminate-type Mn Li-Ion Battery for Large-current Rapid Charging System of Electric Vehicle**

Kazuaki UTSUMI, Motoyoshi UNO, Chika AMEMIYA, Tomoyuki OHTA,
Masatomo MIZUTA, Junko KURIHARA, Asako KAWASHIMA - NEC Lamillon Energy, Ltd, Japan

16:00 **Low cost Lithium-Ion batteries for hybrid & electric vehicles**

Steve FARMER - QinetiQ

16:30 **Refreshment break, Exhibition visit, Vehicles demonstration**

17:00 **A fatigue-like methodology study of high-power Lithium-ion batteries**

Christophe DUDÉZERT, R. BALMY - Renault, France
S. FRANGER - Paris XI University, France
F. TERNAY, H. BURLLET - CEA/LITEN, France

17:30 **Proposal of Accelerated Cycle Life Evaluation Test Method for Lithium Batteries for Plug-in Hybrid Vehicles in STLing Project**

Nobuo KIHARA, N.TERADA, T.IKEYA - CRIEPI

18:00 **Advances in model-based SoC determination for HEV traction batteries**

Antonio SCIARRETTA, Valérie SAUVANT-MOYNOT, Isabelle FAILLE - IFP France

18:30 **Exhibition visit • Vehicles demonstration**

20:00 **Social Event • Cocktail in the Exhibition Room**

Thursday, April 3rd

Session 3: Alternative Fuels /Amphitheatre 300

Session Chairs: Xavier MONTAGNE - IFP & Thierry STADLER - Industries & Agro Ressources - Competitiveness Cluster - IAR

09:00 **Keynote Speech**

• Are Alternative Fuels Really Alternatives?
Joseph BERETTA - PSA Peugeot Citroën, France

09:30 **Biofuels and Automotive Industry: Potentials and Challenges**

Jean-Christophe BEZIAT, Gladys MOREAC - Renault, France

10:00 **The Role of Alternative Fuels in Meeting the Proposed 2012 EU CO2 Emissions Target**

Andrew CLOSE - Global Insight, UK

10:30 **Refreshment break, Exhibition visit, Vehicles demonstration**

11:00 **VEHGAN: the Benefits of using a downsized CNG engine in a hybrid**

Stéphane VENTURI, Richard TILAGONE, Dominique SOLERI, Paolino TONA - IFP France

11:30 **Bio-oils from hydroliquefaction of lignocellulosic compounds**

Frédéric BATAILLE - Valagro, France
Jacques BARBIER - Pôle des Eco-industries de Poitou-Charentes, France

Session 4: Hybrids Simulation Systems /Amphitheatre 300

Session Chair: François BADIN - IFP

12:00 **Complete vehicle model to optimize mild hybrid and thermal strategies and to predict CO2 emissions: development, validation and analyses**

Hervé DUPONT, HJ. NUGLISCH - Continental, France
M. LANKES - Continental, Germany

12:30 **Optimal Energy Management of a Mild-Hybrid Vehicle**

Grégory ROUSSEAU, Antonio SCIARRETTA, Delphine SINOQUET - IFP France

Session 4 bis: Auxiliary Power Unit/Room A11

Session Chair: Emmanuel d'ORSAY - SIA

12:00 **Solid Oxide Fuel Cells for APU applications**

Helge HOLM LARSEN, Peter KOCH LARSEN - TOPSOE, Denmark

12:30 **Development Update on Delphi's Solid Oxide Fuel Cell Systems**

Jérôme MULOT - Delphi, France
Subhashis MUKERJEE, Karl HALTNER, Steven SHAFFER - Delphi Corporation, USA

13:00 **Lunch • Exhibition visit • Vehicles demonstration**

Session 5: Advanced Energy Storage /Amphitheatre 300

Session Chairs: Philippe BLANCHARD - Johnson Controls Saft & Michel LIFERMANN - Valeo

14:30 **Advanced Automotive Supercapacitor Technology for Reducing CO2 Emissions**

Frédéric TERTRAIS - BatScap - Groupe Bolloré - France

15:00 **Li-ion Battery: Recent Advances and Future trends**

Jean-Marie TARASCON - Université de Picardie J. Verne - CNRS, France

15:30 **IIT Plug-in Conversion Project with the City of Chicago**

Peter SVEUM, Riza KIZILEL, Mohammed KHADER, J. R. SELAMN, Said AL-HALLAJ - IIT, USA

16:00 **Development of High-performance Battery System for Next-generation Vehicles in Japan**

Hironori KOBAYASHI, Kazushige INOUE - New Energy and Industrial Technology Development Organization, Japan

16:30 **Conclusion Speech**

Gérard Marie MARTIN - VALEO / President of SIA Technical Committee
"Equipment, Components and Systems", France.