

AABC 2009

AGENDA

SESSION 1 – Market Development of HEVs and their Batteries

Wednesday June 10, 2009

1. **Reducing Vehicle Emissions to Meet Environmental Goals**
Tom Cackett, *Executive Officer*, California Air Resources Board
2. **Market Drivers and Technical Challenges for Advanced Vehicles**
David Raney, *Senior Manager, Environmental & Energy Affairs*, Honda Motor Company
3. **Electric, Plug-In, and Hybrid Vehicles: Demonstration, Niche Markets, and Mass Markets (Long-Life Battery Included)**
Menahem Anderman, *President*, Advanced Automotive Batteries
4. **Hybrid Vehicle Forecast Based on User Preference**
Yukio Shigeta, *Global Strategy Consulting 1*, Nomura Research Institute, Ltd.
5. **US Consumer Attitudes towards Hybrids and other Advanced Powertrain Technologies**
Scott Miller, *Chief Executive Officer*, Synovate Motoresearch

SESSION 2 – NiMH Status and Li-Ion Battery Promise for Mild, Moderate, and Strong Hybrids

Thursday June 11, 2009

1. **Lithium, Lithium Everywhere, But Who Can Make it Economical?**
Ted Miller, *Senior Manager, Energy Storage and Research*, Ford Motor Co.
2. **Advanced Energy-Storage Systems for Hybrids**
Uwe Wiedemann, *Mercedes-Benz Cars/Development, Hybrid System & Components*, Daimler AG
3. **Energy Storage for Hyundai's Hybrid Vehicles**
Jinho Park, *Senior Research Engineer, HEV System Engineering Team*, Hyundai Corporation

4. **Implementation of a Lithium-Ion Battery System for the Honda FCX Clarity**
Ryan Harty, *Chief Engineer, Dept. 2, Honda Motor Company*
5. **HEV Battery Solution for HMC's (Hyundai Motor Company) First Li-Ion HEV**
Seungdon Choi, *Senior Research Scientist, Battery Research Institute, LG Chem, Ltd.*
6. **Next Generation Automotive Class Prismatic Cells and Systems**
Andy Chu, *Senior Scientist, A123Systems, Inc.*

SESSION 3A – Energy-Storage Solutions for Micro-Hybrids

Thursday June 11, 2009

1. **Micro-Hybrid Development for European Markets**
Eckhard Karden, *Technical Expert, Ford Research Aachen*
2. **The European Automotive SLI Battery Market, Past, Present, and Future**
Graeme Fraser-Bell, *Vice President, International Sales, Entek International*
3. **Development of the Flooded-type UltraBattery and Battery Sensor for Micro-HEV Applications**
Jun Furukawa, *General Manager, The Furukawa Battery Company*
4. **Extended Life Flooded (ELF) Battery for Micro-hybrids**
Motoyuki Suzuki, *Automotive Battery Engineer, Assistant manager, GS Yuasa*
5. **Advanced Automotive Ultracapacitor Technology to Reduce CO₂ Emissions**
Frédéric Tertrais, *Ultracapacitor Business Unit Manager, BatScap/Bolloré*

SESSION 3B – Plug-in Hybrid Vehicles and Their Prospective Batteries

Thursday June 11, 2009

1. **GM Extended Range Electric Vehicles – Battery Development for VOLTEC**
Roland Matthé, *Technical Manager EFLEX Battery, General Motors Corporation*
2. **Development of Plug-in Hybrid Vehicles**
Akira Kuroda, *Assistant Manager, Hybrid Vehicle Material Engineering Div., Toyota Motor Company*
3. **Electric Drive Vehicle Battery R&D and Manufacturing Initiatives at the US Department of Energy**
David Howell, *Energy Storage R&D, Office of Vehicle Technologies, Department of Energy*

4. **Impact of Real World Drive Cycles on PHEV Fuel Efficiency and Cost for Different Powertrain and Battery Characteristics**
Aymeric Rousseau, *Research Engineer*, Argonne National Laboratory
5. **Impact of 3C's of Battery on PHEV Value Proposition: Cost, Calendar Life, and Cycle Life**
Ahmad Pesaran, *Principal Engineer*, National Renewable Energy Laboratory
6. **Large Lithium-Ion Battery for Automotive Applications**
Jeon Oh, *Leader, Corporate R&D Center/HEV Battery Project*, SK Energy

SESSION 4A – Battery Pack Design and Integration into Light and Heavy-Duty Hybrids

Friday June 12, 2009

1. **Li-Ion Battery Management and System Development for HEV Applications**
Michael Keller, *Senior Manager, Development Battery Systems*, Continental AG
2. **A Downsized Li-Ion Battery for Automotive Applications and Its Battery Management System**
Peter Miller, *Director, Electrical/Electronic Engineering*, Ricardo Cambridge Technical Centre UK
3. **Battery Pack Development and Validation Results for Light and Heavy Duty Hybrids**
Peter Pichler, *Product Manager Battery Systems*, Magna Steyr AG
4. **Field Experience with Advanced Energy Storage**
Tom Apalenek, *Senior Principal System Engineer*, BAE Systems
5. **Heavy-duty Hybrid Vehicle Electrical Energy-Storage Systems**
Paul B. Scott, *Chief Scientific Officer*, ISE Corporation
6. **Military Battery Pack Integration and Performance against Requirements**
Bridget Deveney, *Director of Defense Sales*, Saft America, Inc.

SESSION 4B – Revival of Electric Vehicles and the Batteries That Will Power Them

Friday June 12, 2009

1. **GS Yuasa Technology of Lithium-Ion Batteries for Automotive Applications**
Masanori Kitamura, *General Manager, Corporate Strategic Planning Div.*, GS Yuasa Corporation, GS Yuasa

2. **Design & Development for Production of The Th!nk EV Battery Pack**
Cyrus Ashtiani, *Chief Technology Officer*, EnerDel / Th!nk
3. **Safety Testing of Tesla's Battery Packs**
JB Straubel, *Chief Technical Officer*, Tesla Motors
4. **Commercial Barriers Facing Energy Storage in Plug-in Hybrid Electric Vehicles**
Jacob Grose, *Energy-Storage Analyst*, Lux Research, Inc.

SESSION 5 – Logistics of Vehicle Electrification: Charging, Grid Integration, and Environment Impact

Friday June 12, 2009

1. **Impact of Vehicle-to-Grid on Vehicle Design**
Thomas Keim, *Director*, MIT Consortium for Advanced Automotive Electrical Systems
2. **Evaluation of Battery Charging Concepts for Electric Vehicles and Plug-in Hybrid Electric Vehicles**
Benedikt Lutz, RWTH Aachen University
3. **The PHEV Battery Pack: an End Run around High First Costs**
Philip Misemer, *Leader Transportation Research Program*, California Energy Commission
4. **Environmental and Energy Impacts of Plug-In Hybrid and Electric Vehicles**
Mark Duvall, *Director of Electric Transportation*, EPRI
5. **Evaluation of Battery Life in PHEV/Grid Support Duty**
Don Kerner, *President*, Electric Transportation Engineering Corporation
6. **Smart Charging for Plug-In Electric Vehicles**
Jose Salazar, *Electric Transportation*, Southern California Edison