Advanced Automotive Battery and Ultracapacitor Conference

AABC 2008

AGENDA

SESSION 1 – Market Development of HEVs and their Batteries

Wednesday May 14, 2008

1. **Technical and Market Challenges for Vehicle Electrification**
   John German, Manager, *Environmental and Energy Analysis*, American Honda Motor Co.

2. **How to Use Life Cycle Analysis Comparisons of PHEVs to Competing Powertrains**
   Danilo Santini, *Senior Economist, Section Leader, Center for Transportation Research,* Argonne National Laboratory

3. **Perspectives on U.S. Consumer Attitudes**
   Scott Miller, *Chief Executive Office,* Synovate Motoresearch

4. **Li-Ion Introduction into the Automotive Market, When and How?**
   Menahem Anderman, *President,* Advanced Automotive Batteries

5. **Li-Ion Market Status and the Forecast for Automotive Applications**
   Hideo Takeshita, *Vice President,* Institute of Information Technology

SESSION 2 – NiMH and Li Ion for High-Voltage Hybrids

Thursday May 15, 2008

1. **Collaboration: The Next Critical Step in Hybrid Vehicle Energy Storage**
   Ted Miller, *Senior Manager, Energy Storage and Research,* Ford Motor Co.

2. **Energy Storage Development for Nissan Electric Powered Vehicles**
   Takeshi Miyamoto, *Engineering Director, Electronics & Power Electronics Engineering Division,* Nissan Motor Co.

3. **Advanced Ni-MH Batteries for Hybrid Electric Vehicles Using Super-lattice Hydrogen-absorbing Alloys as Negative Electrode Materials**
   Ikuo Yonezu, *General Manager, Energy R&D Center, Mobile Energy Company,* Sanyo Electric Co.

4. **Recent Process of High-Power Li-Ion Battery Performance for HEV Applications**
   Kiho Kim, *Principal Engineer, Energy Lab., R&D Center,* Samsung SDI

5. **R&D Status of Lithium-Ion Batteries for Various Applications in GS Yuasa**
   Masanori Kitamura, *General Manager, Corporate Strategic Planning,* GS Yuasa Corporation

6. **LG Lithium-Ion Technology for Automotive Applications**
   Myung Hwan Kim, *Vice President,* LG Chem Battery R&D

SESSION 3 – Battery Requirements and Solutions for Plug-in Hybrids

Thursday May 15, 2008

1. **Energy-Storage Progress and Concepts for Plug-In-Hybrid and Extended Range Electric Vehicles**
   Mark Verbrugge, *Director, Materials and Processes Lab.*, and Roland Matthe, *Engineering Group Manager, EFLEX RESS & Charging*, General Motors Corporation

2. **Plug-in Hybrid Vehicle Development**
   Hironori Harada, Engineer, *Energy Device Department, Hybrid Vehicle Material Engineering Division,* Toyota Motor Co.

3. **Battery Requirements for HEV, Plug-in HEV, and EV**
   François Orsini, *Advanced Batteries for Electric and Hybrid Vehicles,* Renault

4. **Impact of Battery Characteristics on PHEV Fuel Economy**
   Aymeric Rousseau, *Head of the Advanced Powertrain Vehicle Modeling Team,* Argonne National Laboratory

5. **PHEV Battery Performance/Life/Cost Trade-off Analysis**
   Tony Markel, *Senior Engineer,* National Renewable Energy Laboratory

6. **Nanophosphate Technology for PHEV, Extended-Range EV, and Other Automotive Applications**
   Andy Chu, *Senior Scientist,* A123Systems

SESSION 4 – Lead Acid and Ultracapacitor Solutions for Low-Voltage Hybrids

Friday May 16, 2008

1. **Short Introduction to the Session (no corresponding paper)**
   Elmar Hockgeiger, *General Manager Electrical Machines and Storage Systems*, BMW Group

2. **Lead-Acid Batteries for Automotive: Still in Progress, for a Long Time but Not Necessarily Alone**
   Bernard Sahut, *Leader of Innovation Team for Energy Production, Storage, and Distribution,* PSA Peugeot Citroën

3. **Comparative Study of Spiral Wound vs. Flat Plate VRLA Design for Mild Hybrid Applications**
   Francisco Trinidad, *Director R&D TE,* Exide Technologies

4. **Advanced Lead Acid - the New Battery System for Hybrid Electric Vehicles**
   Alan Cooper, *Projects Coordinator,* European Advanced Lead Acid Battery Consortium

5. **Supercap-Enhanced Powernet for Improved Functionality in BMW Micro-Hybrid Vehicles**
   Frank Przywecki, BMW Group

6. **Double-Layer Capacitor Applications in the Low-Voltage Powernet**
   Johann Schneeberger, *Program Manager Energy Management,* Continental Corporation

7. **EDLC Research Activities and Ideas for Low-Voltage Systems**
   Kazuhiko Ito, *Manager Automotive Electronics Sales Team, Capacitor Business Unit,* Panasonic Electronic Devices Co., Ltd.

SESSION 5 – Battery Pack Technology and Integration for Light and Heavy-Duty Hybrids

Friday May 16, 2008

1. **ESS Integration and Field Experience in Passenger-Car and Heavy-Duty Applications**
   Kevin Konecky, *Energy Storage Systems Integration,* General Motors Corporation

2. **Battery Pack Integration Challenges for Hybrid Vehicles**
   Wellington Kwok, *Systems / Battery Engineer - Hybrid Vehicle Products,* Delphi Electronics & Safety

3. **The Impact of Simulation Analysis on the Development of Battery Cooling Systems for Hybrid Vehicles**
   Peter Pichler, *Product Manager Battery Systems*, MAGNA STEYR Fahrzeugtechnik AG & Co. KG

4. **Recent Progress in Safe and Durable High-Voltage Li-Ion Battery Systems for HEV**
   Michael Keller, *Senior Manager, Energy Management,* Continental Automotive Systems Division

5. **Scania Hybrid Buses – Why and How?**
   Anders Folkesson, *Industrial Researcher, Alternative Powertrains,* SCANIA, Powertrain Performance

6. **Hybrid Vehicle Technology and Integration in Heavy-Duty Applications**
   Robert King, *Project Manager,* General Electric Company