Symposium on Large Lithium-Ion Battery Technology and Application

LLIBTA 2009

AGENDA

SESSION 1 – Advances in Lithium-Ion Battery Materials

Tuesday June 9, 2009

1. **Development of Anode Materials for Large-Format Applications**
   Tatsuya Nishida, *Inorganic Material Division R&D Group,* Hitachi Chemical Co.

2. **Advanced Silicon Anode Technology for High-Performance Lithium-Ion Batteries**
   Kiyotaka Yasuda, *Project leader, SILX System*, Mitsui Mining & Smelting (Mitsui Kinzoku)

3. **Nickel-manganese-based Cathode Materials for Large Format Applications, Including HEV, EV, and Stationary**
   Michael Kruft, *Vice President and COO,* Toda Advanced Materials, Inc.

4. **Metal-oxide Enhanced LFP Material with High Energy Density for Lithium-Ion Rechargeable Batteries**
   Pin-Jiun Wu, ALEEES, National Synchrotron Radiation Research Center

5. **Continued Advancements in Separator Technology Performance**
   Patrick Brant, *Chief Polymer Scientist,* ExxonMobil Chemical Company

6. **Chemetall, the Lithium Company**
   Thorsten Buhrmester, *Business Development Manager Battery Materials*, Chemetall GmbH

SESSION 2A – Key Technological Challenges for Large Lithium-Ion Batteries: Life and Reliability

Tuesday June 9, 2009

1. **GM Hybrids – Li-Ion Needs and Challenges for Long Life**
   Mark Verbugge / Joe LoGrasso, *Director, R&D/Materials and Processes Lab. / Engineering Group Manager, Global Battery Systems Engineering,* General Motors

2. **Optimizing Design, Charging Algorithm and Predicting Useful Life by Electrochemical Modeling**
   Sarah Stewart, *Associate,* Exponent Failure Analysis Associates

3. **Toward Enabling PHEV Batteries Using Advanced New Electrode Materials**
   Khalil Amine, *Manager,* Argonne National Laboratory

SESSION 2B – Key Technological Challenges for Large Lithium-Ion Batteries: Safety

Tuesday June 9, 2009

1. **Critical Cell Properties Affecting Abuse Tolerance: Cathode Chemistry and Separator Integrity**
   Peter Roth, *Project Leader for the Advanced Battery Research for Transportation (ABRT) program,* Sandia National Laboratories

2. **Lithium-Ion Battery Safety Study Using Multi-Physics Internal Short-circuit Model**
   Gi-Heon Kim, *Senior Engineer,* National Renewable Energy Laboratories

3. **Factors on Li-ion Safety - Internal Short and HS-Lithium Deposition**
   John Zhang, *VP, Chief Technical Officer,* Celgard LLC

4. **Challenges with the UN-Transportation Tests of HV-Batteries in the Automotive Sector**
   Markus Hackmann, *Senior Consultant of alternative drive systems,* P3 Group

SESSION 3 – Non-Automotive Applications for Large Lithium-Ion Batteries

Wednesday June 10, 2009

1. **Practical Developments of Li-ion Battery for LEV Applications**
   Mo-Hua Yang, *Team Leader, Deputy Director,* Material and Chemical Research Laboratories, Industrial Technology Research Institute

2. **Manganese Formulated Li-ion Cells For Power Tool and HEV Applications**
   Mark Shoesmith, *Manager R&D,* E-One Moli Energy

3. **The Worldwide LEV - Light Electric Vehicle Market and Its Battery Requirements**
   Hannes Neupert, ExtraEnergy e.V.

4. **Multi-Megawatt Li-Ion Batteries for the Smart Grid**
   Ric Fulop, *VP Business Development, Founder,* A123Systems

5. **Large Format Li Ion Batteries for Stationary Power Application**
   Veselin Manev, *Director R&D,* Altairnano, Inc.