

Symposium on Large EC Capacitor Technology and Application

ECCAP 2009

AGENDA

SESSION 1 – Advances in EC Capacitor Materials and Cell Design

Tuesday June 9, 2009

1. **Limits to Cell Operating Voltage of Electrochemical Capacitors**
Katsuhiko Naoi, *Professor*, Tokyo University of Agriculture and Technology
2. **Striking Capacitance of Carbon/Iodide Interface**
Elzbieta Frackowiak, *Professor*, Poznan University
3. ***In-situ* Monitoring of EDLCs Operation by Physico-chemical Techniques**
Ruediger Kötz, *Professor*, Paul Scherrer Institute
4. **Manganese Oxides: Battery Materials Make the Leap to Asymmetric Electrochemical Capacitors**
Jeff Long, *Research Chemist*, Naval Research Laboratory
5. **Guidelines for the Optimization of EDLC Carbon Electrodes**
François Béguin, *Professor*, CNRS University, Orleans
6. **Capacitor Models for Various Regimes, Carbons, and Electrolytes**
Jingsong Huang, *Research associate*, Oak Ridge National Laboratory
7. **Activated Carbon Derived from Fibrillated Lignocellulose Fiber**
Steve Lipka, *University of Kentucky*

SESSION 2 – Performance of Advanced EC Capacitor Products

Tuesday June 9, 2009

1. **Newly Developed 85°C Electrochemical Capacitor Green Technology DLCAP™ to Meet Automotive Market Demand**
Toshihiko Furukawa, *Senior Manager*, Nippon Chemi-Con Corporation

2. **EDLC Lifetime Influences and Lifetime Projections**
Mike Everett, *Vice president and CTO*, Maxwell Technologies
3. **Status of BatScap Cell & Pack Design and Qualification for Transportation Markets**
Frédéric Tertrais, *Ultracapacitor Business Unit Manager*, N BatScap/Bolloré
4. **The Characteristics of MEIDENSHA's Bipolar Laminate Type Electric Double Layer Capacitor and Its Applications**
Takayuki Yamamoto, *Research Engineer*, Meidensha Corporation
5. **Axion Power's Asymmetric Ultracapacitor/Lead-Acid Technology Applied to High-Rate Partial-State-of-Charge HEV Cycling**
Ed Buiel, *Vice President and CTO*, Axion Power International
6. **Surface Engineered Ultracapacitors using Nanospring™ Templates**
Grant Norton, *Vice President - Product Development*, GoNano Technologies

SESSION 3 – System Engineering of EC Capacitors for Present and Emerging Applications

Wednesday June 10, 2009

1. **Challenges for EC Capacitors in Automotive and Related Applications**
Andreas Stoermer, *Electrical Storage Systems, Manager Lead, Supercaps*, BMW Group
2. **Energy Storage Systems for Severe-Duty Truck Applications**
Michael Bolton, *Senior Engineer Electrical Energy Storage Systems*, Oshkosh Corporation
3. **Quo Vadis Ultracapacitor – Real-world Applications and Product Developments**
Michael Liedtke, *VP Business Development*, Maxwell Technologies
4. **Requirements for Double-Layer Capacitors Energy-Storage Units for Rolling Stock**
Karsten Rechenberg, *Project Manager, Head of R&D Unit*, Siemens AG
5. **Experiences of the Hybrid Energy Storage System Sitras® HES Based on a NiMH-battery and Double Layer Capacitors in Tram Operation**
Michael Meinert, *Project Manager, Transportation Systems*, Siemens AG
6. **Fuel Economy and Performance of Mild Hybrids with Ultracapacitors – Simulations and Vehicle Test Results**
Jeff Gonder, *Engineer*, National Renewable Energy Laboratory