



DOE ENERGY STORAGE SYSTEMS RESEARCH PROGRAM ANNUAL PEER REVIEW



November 2 – 3, 2006
Washington Marriott Hotel, Washington, D.C. (USA)

AGENDA

[\(click on a title to view presentation\)](#)

Thursday, November 2

- 7:30 am Continental Breakfast (Meeting Room Foyer)
- 8:40 Welcome and Overview – Dr. Imre Gyuk, DOE
- 9:00 ESS Program Overview – John Boyes, Sandia National Laboratories
- 9:20 NAS Battery Performance at Charleston, WV – Ali Nourai, AEP Corp.
- 9:40 Evaluation of the Kauai System for Storage Potential and Implementation
– Mike Yamane, Kauai Island Utility Co-operative; Abbas Akhil, Sandia National Laboratories
- 10:00 Iowa Stored Energy Plant – Bob Haug, Iowa Stored Energy Plant Agency
- 10:20 **BREAK**
- 10:40 Boeing Superconducting Flywheel Development – Philip Johnson, Boeing
- 11:00 Bipolar Nickel Metal Hydride Battery Development and Testing – James Landi, EEI
- 11:20 Nanomaterials for Ultracapacitors – Amit Singhal, NEI Corporation
- 11:40 Lead-Carbon Devices for Energy Storage – Ben Craft, MeadWestVaco
- 12:00 **LUNCH (on your own)**
- 1:20 pm Laboratory-scale FACTS Controller Development
– Dr. Mariesa Crow, Univ. of Missouri, Rolla
- 1:40 Low Cost, High Current Advanced Inverter Packaging with Integral, Liquid-Cooled Heat Exchanger – Larry Rinehart, Rinehart Motions
- 2:00 ETO Device, Converter, and Controls Development – Dr. Alex Huang, NC State Univ.
- 2:20 **BREAK**
- 2:40 Advanced Power Converter System Using High Temperature, High Power Density SiC
– Dr. Timothy Lin, Aegis Technology
- 3:00 Optically Isolated, High-voltage, IGBT-based Inverter for DER Applications
– Paul G. Duncan, Airak
- 3:20 High Temp and High Power Density SiC Power Electronic Converters
– Dr. Alexander B. Lostetter, APEI; Presented by Dr. Roberto Schupbach, APEI
- 3:40 – 5:00 **MINI-MEETING** – “Energy Storage for Renewable Applications” (organized by ESA)
- 5:00 – 7:00 **RECEPTION** – Host: Electricity Storage Assoc. (ESA)

