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2011 Joint Service Power Expo

Myrtle Beach, SC

2 – 5 May 2011

Agenda

TUESDAY, MAY 2, 2011

ADMINISTRATIVE & WELCOME REMARKS

- Marc Gietter, 2011 JSPE Conference Chair

GENERAL SESSION

KEYNOTE SPEAKER #2:

- Mr. Bill Heisey, Lockheed Martin

"Update on USMC Expeditionary Power and Energy Acquisition", Mike Gallagher, Program Manager, Marine Corps Systems Command

"Army Power Needs"

- MAJ Steve Meredith, USA

CONFERENCE BREAKOUT SESSIONS

SESSION 1

Battery Monitoring & Maintenance

- 12809 - "Battery Management System for Monitoring up to Six Lead Acid Batteries at the Individual Battery and System Levels", Dr. David Liu, Vice President Research and Development, HDM Systems Corporation
- L-3 - "Battery Maintenance", Mr. Mark Abelson, Director-Govt/Military Programs, Pulsetech Products Co.,

SESSION 2

Micro/Smart Grids 1

- 12093 - "Project Manager Mobile Electric Power Smart Grid Efforts", Miss Jennifer Whitmore, Electrical Engineer, CERDEC C2D Army Power
- 12788 - "Developing Hybrid and Sustainable Energy Solutions for the Increasing Power and Mobility Needs of the Warfighter", Mr. Dan Madden, PE, CEO/General Manager, Energy Technologies, Inc.

SESSION 3

Strategic Planning for Energy Initiative

- 12303 - “DOD-DOE partnering - Moving out on Transitioning Fuel Cells”, Mr. Peter Devlin, Market Transformation Team Lead, U.S. Department of Energy (EE-2H) and Mr. John Christensen
- 12835 - “High Energy Density Systems (HEDS) R&D Plan”, Mr. Kyle Werner, Division Manager for Code GXS, Naval Surface Warfare Center Crane Division and Ms. Susan Waggoner
- L-1- NSWC Crane, Energy Power & Interconnect Technology Division/ARPA, Mr. David Miller, Test and Evaluation Branch Manager, NSWC Crane Division

SESSION 4

Battery Charging

- 12127 - “Mobile Charging System”, Mr. Rick Silva, Senior Systems Engineer, CME
- 12076 - “Advancing Renewable Energy Technology Commercialization through Federal, State and Local Collaborations, Mr. Russ Keller, Vice President, ATI

SESSION 5

Micro/Smart Grids 2

- 12351 - “The Quest for the Holy Grid”, Mr. Ken Deylami, Lead General Engineer, CERDEC C2D Army Power
- 12795 - “A123’s Advanced Grid Storage: Distributed Generation and Microgrids for Increased Energy Efficiency & Security”, Ms. Kimberly Pargoff, Government Grid Director, A123 Systems
- “Gen Set Eliminator - Optimizes Fuel Consumption”, Mr. Andrew Naukam, VP Technology, Energy Storage Systems, Ultralife Corporation and Dr. Ron Wang

SESSION 6

Getting Product to the User

- L-12 - Army Training and Doctrine Command “TRADOC”, COL Paul Roege, USA, FORSCOM
- 12838 - “Rapid Fielding, and the Army Safety Release/Safety Confirmation Process”, LTC Daniel Rusin, USA (Ret.), Test Manager, DTC, Army Test and Evaluation Command and LTC Richard Lonardo, USA (Ret.)

WEDSDAY, MAY 4, 2011

SESSION 7

Advanced Battery Systems

- 11769 - “Squad Power - Advanced Lithium Power Sources”, Mr. Jim Hess, Director, Defense Sales, Saft America, Inc. and Mr. Pat Lyman
- 11911 & 11913 - “Universal Light Weight Smart Battery for THHR\Wireless Light Weight Smart Battery for Tactical Handheld radio”, Mr. Merdod Badie, Senior Project Manager, Thales Communications Inc.
- 12785 - “Large Format Lithium Power Cells for Demanding Hybrid Applications”, Mr. Adam Hunt, Manager of Government Programs, ENERDEL

SESSION 8

USMC Power Initiatives

- 12784 - “Small unit power requirements from the customers perspective” Lt Col Michael Bissonnette, USMC (Ret.), L-3 Communications
- 12081 - “Marine Corps Renewable Energy and Micro Gridding Programs” Mr. Clint Govar, Engineer, MCSC
- 12125 & 12126 - “Alternative Energy Based Expeditionary Power Solutions” Dr. Carl Kirkconnell, Iris Technology Corporation

SESSION 9

Generators

- 12078 - “High Power Density Turbine Based Generation Systems” Mr. Hernando Munevar, President & CEO, Candent Technologies, Inc.
- 12105 - “Man-Portable Tactical Power: Report on Efforts” Mr. S. Paul Dev, President, D-STAR Engineering Corp.
 - D-STAR generator AVCHD Video (.m2ts)
- L – 6 - “Development of a lightweight, man-portable, heavy-fuel generator” Mr. Les Gray, Executive in Residence, QinetiQ North America and Andrew A. Pouring, D.Eng. CEO and Chief Technical Officer Sonex Research, Inc.

SESSION 10

BA-XX90 Batteries

- 12102 - “Next Generation 5X90 Battery” Mr. Carlos Negrete, New Technologies Engineering Manager, SAFT America
- 12777 - “Recent Advances for Lithium Carbon mono-fluoride Batteries for Portable Applications” Dr. Gregg Bruce, Chief Scientist, EaglePicher Energy Products
- 12823 - “Li-CFx/MnO₂ Hybrid D-cell with Wide Operating Temperature Range for Military Batteries”, Dr. Xinrong Wang, Research Manager, Ultralife Corporation and Mr. David Modeen

SESSION 11**Fuel Cells I**

- 11909 - “OSD Fuel Cell Roadmapping Effort” Mr. Jim Gucinski
- 12071 - “Manhattan Fuel Cell Manufacturing Technology Study”, Ms. Rebecca Morris, Product and Applications Engineer, ACI Technologies, Inc. and Mr. Carmine Meola
- 12132 - “Renewable energy generation and storage for reduced logistics burden”, Ken Pearson, President & COO Jadoo Power

SESSION 12**Renewable Energy 1**

- 12124 - “Merlin Adapters for Tactical Radios – The New Standard in Power Management”, Mr. Ed O'Rourke, Iris Technology Corporation
- 12111 - “Design Development and Testing of a Rapidly Deployable Man-Transportable Renewable Energy System”, Mr. Eric Shields, Mechanical Engineer, NSWCCD and Mr. Alex Askari
- 12180 - “REMM: Expeditionary Power”, Mr. Stephen Nimmer, Director, Engineering Defense Technology Development Oshkosh Corporation
 - NPC Generator video clip.avi

SESSION 13**Large Format Rechargeable Batteries**

- 12131 - “Technical Challenges for Vehicle 12V/24V Lithium Ion Battery Replacement”, Mr. David Skalny, Energy Storage Deputy Team Leader, Ground Vehicle Power & Mobility Directorate, U.S. Army TARDEC
- 12812 - “Integration of NanoPhosphate Prismatic Battery Cells into the XM1124 Hybrid Electric HMMWV”, Dr. Mike Marcel, Government Operations Manager, A123 Systems
- 12187 & 12188 - “Large Format Li Ion Replacement Packs/Light Weight, High Power and -40°C Capable Li-ion Battery”, Dr. Hisashi Tsukamoto, CEO, CTO, Quallion LLC and Mr. Vincent Visco

SESSION 14**Fuel Cells 2**

- 12103 - “JP-8 Compatible Fuel Cell Gensets at Lockheed Martin”, Mr. Steven Sinsabaugh, Lockheed Martin Fellow, Lockheed Martin MS2
- 12771 - “Reducing Warfighter Load by Improving Energy Density”, Mr. Philip Hassell, Sales and Business Development Manager, SFC Energy, Inc.
- 12801 - “Solid Oxide Fuel Cells to reduce the logistic burden of resupplying the Warfighter through point of need power generation”, Mr. Jon Rice, Business Segment Leader, Ultra-AMI

SESSION 15**Renewable Energy 2**

- 12147 - “Solar Photovoltaic Tactical Electric Power Systems”, Mr. Cao Chung, Chemical Engineer, U.S. Army CERDEC C2D
- 12096 - “Regenerative Solar Power Solutions for Extended Mission Endurance”, Mr. John Hart, Business Development, ABSL Power Solutions Inc.
- 12799 - “Utilization of a Ducted Wind Turbine in a Trailer-Mounted Renewable Energy Micro-grid”, Mr. Mark Matthews, VP of Sales and Marketing, WindTamer Corporation and Mr. Adeeb Saba
 - WindTamer MPEG-4 Movie (.mp4)

SESSION 16**On-Board Vehicle Power (OBVP) 1**

- 12178 - “Oshkosh On-Board Vehicle Power Systems: Advancement from Heavy to Light Vehicles”, Mr. Nader Nasr, Senior, Chief Engineer, Adv Products Group, Oshkosh Corporation (Please contact presenter for presentation)
- 12834 - “Office of Naval Research Maneuver Science and Technology Programs in Fuel Efficiency and Battlefield Power”, Mr. Michael Mimmagh, Engineer, Naval Surface Warfare Center
- 12344 & 12345 - “Modeling and Simulation of an OBVP Enhanced Vehicle to Improve Fuel Economy(On-Board Vehicle Power: Past, Present and Future”, Mr. Gary Grider, Senior Project Manager, DRS Test and Energy Management

- 12149 – “Systems Approach to OBVP Requirements”, Dan Cowan, Kollmorgen, Business Development Manager

SESSION 17

Building Government Industry Relationships

- 12076 - “Advancing Renewable Energy Technology Commercialization through Federal, State and Local Collaborations”, Mr. Russ Keller, Vice President, Advanced Technology International
- 12302 - “Rapid Fielding, and the Army Safety Release/Safety Confirmation Process”, Mr. Glen Bowling, Vice President Sales, Saft Specialty Battery Group

SESSION 18

Renewable Energy 3

- 12829 - “Development of Flexible, Lightweight CIGS Photovoltaic Power Solutions for Today’s Military”, Mr. Ashu Misra, Senior Vice President Sales & Corporate Development, Ascent Solar Technologies and Mr. Brian Blackman, Director of Corporate Development
- 12160 - “Training Center Petaluma Solar Power”, CDR Jeff Good, USCG and CAPT Chris Hall and Mr. Tony vanWinden

SESSION 19

Micro/Smart Grids 3

- 12143 - “Fuel Consumption Model for Tactical Operations Centers (TOCs)”, Ms. Jennifer Barker, SURVICE Engineering Company
- 12270 - “A demonstration of intelligent control technology in tactical power grids”, Dr. Darrell Massie, Chief Technology Officer, Intelligent Power & Energy (Please contact presenter for presentation)

THURSDAY, MAY 5, 2011

SESSION 20

OBVP- 2

- L – 9 - “Advanced Power Systems for Enhanced Capability and Fuel Economy”, CAPT Lynn Petersen, USN, Deputy Director, PMS 320 (Electric Ships Office NAVSEA) *“This presentation is Distribution A, Approved for Public Release”*
- 12448 - “Permanent Magnet Generators for On Board Vehicle Power”, Mr. James Burns, P.E., Director of Engineering, DRS Power Technology, Inc.
- 12346 & 12347 - “Integrating Power Plants Into Powertrains”, Mr. Brent Brzezinski, Ph.D., Engineering Specialist, DRS Test and Energy Management

SESSION 21

Energy for Garrisons

- L- ?? - “Using Fuel Cells for Building Power”, Ms. Ruth F. Cox, President and Executive Director, Fuel Cell and Hydrogen Energy Association

SESSION 22

Hybrid Systems

- 11848 & 11849 - “The Alternative Energy Coalition: A Struggle for Power in the Expeditionary Environment”, Mr. Thomas Lederle, Vice President Product Development, NEST Energy Service
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 - Load Control Windows Media Audio/Video file (.wmv)
 - Raptor Windows Media Audio/Video file (.wmv)
- 12064 - “Optimizing Generator Efficiency with Energy Storage Technologies”, Mr. William Moorehead, Chief Operating Officer, Earl Energy, LLC
- 12066 - “Reducing Fuel Consumption with Hybrid Renewable/Conventional Micro-grids.”, COL Albert Zaccor, USA (Ret.) CEO, Solar Stik

SESSION 23

OBVP- 3

- 12836 - “Polaris REX Technology”, Mr. Stacy Stewart, Director, Powertrain Engineering Polaris Industries, Inc. and Mr. Patrick Weldon

SESSION 24

Power to Remote Locations

- 12813 - “Pulse Energy Management System – Real Time Optimization of Remote Deployment Energy Systems”, Mr. Bruce Cullen, Manager - Remote Communities, Pulse Energy
- 12825 - “SentryPOST Solution for Remote Surveillance with Renewable Energy”, Dr. Justin Thompson, Chief Operating Officer, Sentry View Systems and Mr. Kerry Starr
- 12837 - “Comprehensive Integration and Interaction of Equipment Used For Remote Site Systems”, Mr. Doug Combs, Director DOD Programs, Berg Companies