

The Future of Munitions Batteries Workshop

ARL-ALC Auditorium

2800 Powder Mill Road, Adelphi, MD 20783

First Day (7 December 2016)

Registration Starts	7:20 AM
- ARL: Cindy Lundgren - Welcome and Introduction to CREB	8:00 AM
1. Munitions Batteries: Taking Stock	8:20 AM
- ARL : Michael Ding - Munitions Batteries: Basics, Requirements, and challenges	8:20 AM
- ARL : Michael Ding - Developing Thin-Film Thermal Batteries and Heat Source Materials	8:40 AM
- ARL: Jeff Swank - Liquid Reserve Fuze Batteries: Trying to Move Beyond the Status Quo	9:00 AM
- SNL: Scott Roberts - Multiphysics modeling of thermal batteries at Sandia	9:20 AM
- > Break <	9:40 AM
- Rafael: Ofer Raz - Munitions Battery R&D and Production at Rafael	10:00 AM
- Eagle Picher: Dharmesh Bhakta - Battery Technologies for Munitions	10:20 AM
- EnerSys: Paul Schisselbauer - Advanced Munitions Batteries	10:40 AM
- ATB: Guy Chagnon - Munitions Batteries: Taking Stock	11:00 AM
Discussions (Auditorium; Running microphones at the ready)	11:20 AM
Lunch	12:00 PM
2. DoD Needs and Requirements for Munitions Batteries	1:00 PM
- Army-AMRDEC: Patrick Taylor - Spare No Expense: Missiles' Special Needs	1:00 PM
- Navy-Crane: Sam Stuart - Progression of Missile Battery Technology and Where It Is Headed	1:20 PM
- OSD-JMP: Paul Butler - The Munitions Power Maze: OSD, JMP, TCG-V, FATG, and More	1:40 PM
- Army-ARDEC: Tony Pergolizzi - The New OSD Munitions Power IPT and TCG-V Gaps	2:00 PM
- > Break <	2:20 PM
3. Potentials of Active Battery Technologies for Munitions Applications	2:40 PM
- ARL: Jeff Read - Feasibility of Using Active Batteries for Munitions Applications	2:40 PM
- Energizer: Matt Wendling - Active Battery Technologies for Munitions Applications	3:00 PM
- MaxPower: Steve Shantz - Organic-Based R/T Liquid Reserve Technologies	3:20 PM
- Army-ARDEC: Karen Amabile - (2) Power Requirements for Munitions: Present and Future	3:40 PM
Discussions (Auditorium; Running microphones at the ready)	4:00 PM
Get-Together Dinner (Restaurant to be chosen)	7:30 PM

Second Day (8 December 2016)

4. Non-Conventional Thinking and Technologies for Munitions Power	8:00 AM
- Army-ARL: Bruce Geil - Inside the Box: An Outside the Box look at power requirements for new concepts	8:00 AM
- Army-ARDEC: Guiseppe Di Benedetto - Nanomaterials and Additive Manufacturing for Munitions Power Sources	8:20 AM
- SNL: Chris Apblett - Thin Film Thermal Battery Development for High Rate Applications	8:40 AM
- Missouri U of Sci and Tech: Nick Leventis - Aerogel-Wise: Making Novel Heat Source Materials for Thermal Batteries	9:00 AM
- OmniTek: Jay Rastegar - Hooked on Munitions Power: Mini-Inertial Igniters, Piezo-Energy-Harvesters, and More	9:20 AM
- > Break <	9:40 AM
Discussions (Continuation of this Session; Running microphones at the ready)	10:00 AM