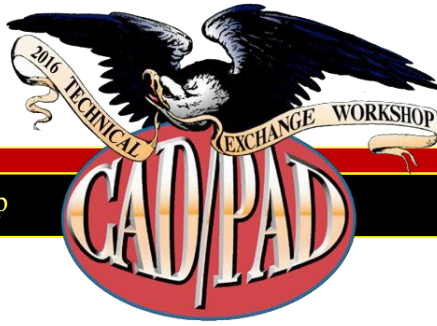


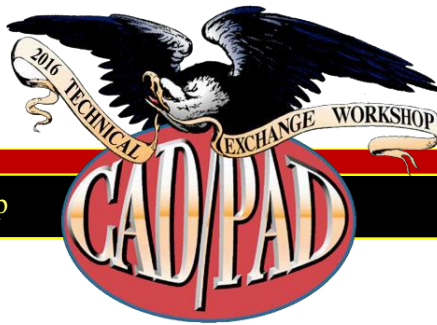


2016 CAD/PAD Technical Exchange Workshop Agenda

24 May 2016, Tuesday – Day 1	
8:00 - 9:00	Registration
9:00 - 9:10	“Welcome to the Workshop – Introduction” by Mr. Robert Hastings, Chief Engineer CAD/PAD Div., NSWC IHEODTD
9:10 - 9:30	“NSWC IHEODTD Remarks” – by CAPT Martinez, Commanding Officer NSWC IHEODTD
Session 1	Future of CAD/PAD
9:30 - 9:55	“Update to the CAD/PAD Technology Roadmap” – Mr. John Burchett, NSWC IHEODTD
9:55 - 10:20	“Conveying the Explosive Safety Message Across the Generation Gap - Boomers Training Millennials” - Mr. Frank Valenta, Port Tobacco Consulting, LLC
10:20 - 10:50	BREAK
Session 2	Propellant Technology
10:50 - 11:15	“Energetic Obsolescence Topics” - Mr. Alexander Woods, NSWC IHEODTD
11:15 - 11:40	“BAE Specialty Propellant” - Mr. Cam Chalmers, BAE Radford
11:40 - 12:05	“RAM Mixing for Cast Composites and Explosives” – Ms. Amy Luebbering, NSWC IHEODTD
12:05 - 13:20	LUNCH
Session 2	Propellant Technology (Cont.)
13:20 - 13:45	“Plateau Burning Composite Propellant” - Dr. David Reid, Helicon Chemical Co.
13:45 - 14:10	“U-2 Rocket Catapult Aging and Surveillance Testing” – Mr. Travis Thom, NSWC IHEODTD/Hill AFB AFLCMC/EBHJ & Dr. Brian Liechty, Orbital ATK Promontory
14:10 - 14:35	“Environmentally Acceptable Energy Dense Propellants” - Dr. John Consaga, Consaga and Associates, Inc.
14:35 - 15:05	BREAK
Session 3	Investigation and Failure
15:05 - 15:30	“ACES II Harness Release Failure” - Mr. Allen Hancey, NSWC IHEODTD/Hill AFB AFLCMC/EBHJ
15:30 - 15:55	“Stress Corrosion Cracking in Ordnance Devices” – Mr. Nick Ferentheil, Pacific Scientific Energetic Materials Co.
15:55 - 16:20	“Primer Corrosion Investigation” - Mr. Justin Gamble, NSWC IHEODTD



25 May 2016, Wednesday – Day 2	
8:00 - 8:10	Welcome Back
8:10 - 8:25	“CAD/PAD Remarks” – CAPT Engdahl, PMA 201
8:25 - 8:45	“USNMC Mishap Investigation Support Team” – Mr. Frank Lange, NSWC IHEODTD
8:45 - 9:05	“SAFE Mishap Investigation Support Team” – Mr. Jake Parkin, NSWC IHEODTD, AFLCMC/EBHJ
9:05 - 9:50	Keynote Address –Ejection Experience – TBD
9:50 - 10:20	BREAK
Session 4	Electro Optical
10:20 - 10:45	“Sub miniature Laser Igniter” – Mr. John Hirlinger, Picatinny Arsenal
10:45 - 11:10	“Likelihood of ESD Firing and Electric Initiator” – Dr. James Stuart, Franklin Applied Physics
11:10 - 11:35	“Stabilizer Level Accurate Measurement System (SLAMS)” – Mr. Ryk Spoor, International Electronic Machines Corp.
11:35 - 12:00	Lifetime Achievement Presentations – Mr. Paul McCafferty, NSWC IHEODTD/CAD/PAD Joint Program Office
12:00 - 13:15	LUNCH
Session 5	Additive/Advanced Manufacturing
13:15 - 13:40	“Energetic Additive Manufacturing” – Dr. Samuel Emery, NSWC IHEODTD
13:40 - 14:05	“Printing Energetics: Advances at SDSMT” – Dr. Lori Groven, South Dakota School of Mines and Technology
14:05 - 14:30	“Metal AM Structures for CADPAD Applications” – Mr. Kevin Genson, NSWC IHEODTD
14:30 - 15:00	BREAK
Session 5	Additive/Advanced Manufacturing (Cont.)
15:00 – 15:25	“Alternative 3D printing techniques for CAD/PAD - Improvement and control of burn rates by FDM and Multijet Methods” – Prof. David Bigio & Prof. Ryan Sochol, University of Maryland, College Park
15:25- 15:50	“IHD Chemical Synthesis Capability” – Dr. Patrick Greer, NSWC IHEODTD
15:50 - 17:00	SIDEBARS



26 May 2016, Thursday – Day 3	
8:00 - 8:10	Welcome Back
Session 6	Initiating Explosives
8:10 - 8:35	“DBX-1 Green Primary Use in M55 & M100 Detonators” – Mr. Steve Marino, Action Manufacturing
8:35 - 9:00	“Green Primary Explosives related Efforts” – Ms. Neha Mehta , Picatinny Arsenal
9:00 - 9:25	“MTX-1, a Tetrazene Replacement Material” – Dr. Mike Williams, PACSCI, Chandler
9:25 – 9:50	“Zirconium Potassium Perchlorate Replacement with Improved No-Fire Properties” – Mr. Christopher Williams, CAPCO
9:50– 10:20	BREAK
Session 7	Test Improvements
10:20 - 10:45	“NT Strand Burner Data Variability Reduction” – Mr. David Russell, NAMMO Talley
10:45 - 11:10	“A Hueristic Model for Estimating Ignition Delays” – Dr. Hobin Lee, Chemring Energetic Devices
11:10 - 11:35	“Mechanical Pull Force Measurement and Filter Scheme” – Mr. Jason Kozmic, Chemring Energetic Devices
11:35 – 12:00	“Measurement Techniques for HTPB Based Propellants and Explosives” – Mr. Jon Lawrence, NSWC IHEODTD
12:00 - 13:15	LUNCH
Session 8	Future Development
13:15 - 13:40	“Chemistry of Boron” – Dr. Stan Caulder, NSWC IHEODTD
13:40 - 14:05	“Evaluation of a Manufacturing Capability for XU-238 at IHEODTD” – Dr. Patrick Greer, NSWC IHEODTD
14:05 - 14:35	“New Electronic Time Delays” – Mr. Think Hoang, NSWC IHEODTD
14:35 – 15:00	BREAK
Session 8	Future Development (Cont.)
15:00 - 15:25	“MD99 Trajectory Divergence Rocket Motor Propellant Replacement” – Mr. Victor Jacklin, NAMMO Talley
15:25 - 15:50	“Qualification and Replacement of M113” – Mr. Quinn Tidwell, NSWC IHEODTD, AFLCMC/EBHJ
15:50 - 16:10	“Closing Remarks” – Mr. Paul McCafferty, NSWC IHEODTD/CAD/PAD Joint Program Office