

Agenda

May 1-4, 2017 Fredericksburg Expo & Conference Center Fredericksburg, VA

MONDAY, MAY 1, 2017

12:00 PM - 5:00 PM Exhibitor/Poster Move-in

12:00 PM - 5:30 PM Registration Open

1:00 PM - 5:30 PM Tutorial Sessions

Time	Tutorial A	Tutorial B
1:00 PM -2:30 PM	Insensitive Munitions Requirements, Technology, and Testing Dr. Ernie Baker, NATO MSIAC	ARDEC Tissue Damage Model - An Unclassified Damage Model for Use by Industry Mr. Gavin McFarland, Mechanical Engineer, U.S. Army ARDEC
2:30 PM - 4:00 PM	Kistler Transducer Calibration and Application Mr. Richard Cadille, Kistler	Lead Free Primer Formulation and Manufacturing Solutions for Small Caliber Ammunition - Board • Mr. Dan Mansfield, Orbital ATK Lake City • Mr. Anthony Hawthorne, ARDEC Project Engineer, Project Manager Maneuver Ammunition Systems, U.S. Army • Mr. Jeremy Mills, Winchester • Mr. Jared Smith, Fiocchi • Mr. Peter Spatz, RUAG • Mr. Bruce Webb, NAMMO
4:00 PM - 5:30 PM	Large Caliber Cannon Technology Shortfalls-Opportunities for Government & Industry Collaboration Dr. Joseph Kapp, U.S. Army ARDEC	

TUESDAY, MAY 2, 2017

7:00 AM - 6:30 PM	Registration Open
7:00 AM - 8:00 AM	Networking Breakfast
8:00 AM - 8:10 AM	Welcome and Administrative Announcements

• Mr. Dave Broden, NDIA Armament Division Chair; President, Broden Resource Solutions, LLC

8:10 AM - 8:15 AM NDIA Welcome

CAPT Bruce Roulstone, USN (Ret), Vice President, Program Development, NDIA

8:15 AM - 8:45 AM DoD Keynote Address

Mr. Vincent Sabio, Program Manager, Strategic Capabilities Office, DoD

8:45 AM - 9:15 AM Keynote Address

• Mr. John Hedderich, III, Director, U.S. Army, ARDEC

9:15 AM - 9:45 AM U.S. Army Keynote Address

COL William Nuckols, USA, Director, Mounted Requirements Division, U.S. Army

9:45 AM - 10:15 AM Networking Break - Exhibit Hall

10:15 AM - 10:45 AM	 U.S. Army Special Operations Command Keynote Address COL Samuel Ashley, USA, G-8, U.S. Army Special Operations Command
10:45 AM - 11:30 AM	Awards Presentation Small Arms Awards Chinn Award: Mr. Dan Shea, Phoenix Defense Hathcock Award: Mr. Todd Hodnett, Accuracy 1st, Inc. Ambrose Award: Oehler Research, Inc.
	GARM Awards
	Trifiletti Award: Mr. Mike Till, NSWCDD E Department
11:30 AM - 1:00 PM	Luncheon - Exhibit Hall
1:00 PM - 1:30 PM	U.S. Navy Keynote AddressDr. John Burrow, Navy Research, Development, Test and Evaluation
1:30 PM - 2:00 PM	 PEO - Ammunition Presentation Mr. Jim Shields, Program Executive Officer, PEO Ammunition
2:00 PM - 2:30 PM	 DARPA Presentation Mr. Jerome Dunn, Science & Technology Program Officer, Defense Advanced Research Projects Agency
2:30 PM - 3:00 PM	Networking Break - Exhibit Hall
3:00 PM - 3:30 PM	 Views from Congress on Acquisition Reform Presentation Mr. Jeremy Hayes, Professional Staff, Section 809 Panel on Streamlining and Codifying Acquisition, Former Professional Staff Member, Senate Armed Services Committee
3:30 PM - 4:00 PM	 Guest Speaker Mr. Dan Shea, General Director, Phoenix Defense/Small Arms Defense Journal
4:00 PM - 4:30 PM	Guest Speaker • David Law, Technology Chief, Joint Non-Lethal Weapons Directorate (JNLWD)
4:30 PM - 5:00 PM	• Mr. Charles Zisette, NAC/DOTC
5:00 PM - 5:20 PM	Mandatory Meeting for All Companies Participating in the Firing Demonstration on Thursday (Entrance of the Exhibit Hall)

2017 ARMAMENT SYSTEMS FORUM POSTER PRESENTATIONS

Adhesives, Sealants and Precision Application Equipment (19174)

· Mr. Harry Arnon, Hernon Manufacturing

Precision Small Arms and Optics Adaptation to Remote Turret Use Via Ocular Camera (19188)

Mr. Howard Kent, Armor Development Group, LLC

Secondary Flash Reduction Through Weapon & Ammunition Loading Optimization (19197)

Mr. Howard Kent, Armor Development Group, LLC

Modernization of Copper Cylinders for M4/M16M249 Firing Pin Indent Testing (19262)

Mr. Thomas Grego, U.S. Army ARDEC

Improved Bore Erosion Gaging for M4A1 (19263)

• Mr. Adam Foltz, U.S. Army ARDEC

Lead Free Primer Formulation and Manufacturing Solutions for Small Caliber Ammunition (19277)

Mr. Anthony Hawthorne, U.S. Army, PM-MAS

Small Arms Signature Reduction in the Near IR and Visible Regions (19283)

Dr. Frederick Long, U.S. Army ARDEC

Weapon Reliability Evaluation by Model Analysis (19339)

Mr. Terence Rice, U.S. Army ARDEC

Effects of Production Techniques on Primer Performance (19362)

Mr. Thomas Gmyrek, U.S. Army ARDEC

M4/M16 Conical Bolt Solution to Commonly Seen Malfunctions in Harsh Environments (19385)

Mr. Michael Blank, FRDI, LLC

Material Models -- Elastic, Plastic, Ductile Damage, and Shear Damage (19396)

Mr. Mark Lee, Orbital ATK

State of Material -- Material and Hardness Affect Assembly, Misfires, Leakers, Dropped Primers, Case Rupture, Bullet

Pull, Extraction, Terminal Ballistics (19398)

Mr. Mark Lee, Orbital ATK

Application of Energetic Materials in Small Arms with Enhanced Ballistic Breaching Capabilities (19399)

Mr. Ross Nellums, Rocky Mountain Scientific Laboratory

Thermal Isolation/Barrier for Small Caliber Weapons (19400)

Mr. Adam Foltz, U.S. Army ARDEC

Development of Material Characterization Methods for Next Generation Weapon Barrel Requirements (19404)

Mr. Adam Foltz, U.S. Army ARDEC

Closed Loop Aimpoint Correction for Small Arms Mounts (19416)

Dr. Mark Thoreson, NSWC Crane

Using MATLAB to Obtain Bullet Dimensions (19421)

Mr. Kenneth Hohnecker, U.S. Army ARDEC

The Effects of Rifling Twist on Projectile Launch using Explicit Finite Element Analysis (19428)

Mr. Michael Cataldi, U.S. Army ARDEC

Evaluation of Terminal Ballistics Modeling using the Peridynamic Method (19430)

Mr. Raymond Chaplin, U.S. Army ARDEC

Using MATLAB to Mesh Barrel Rifling (19434)

Mr. Kenneth Hohnecker, U.S. Army ARDEC

Impact Sensitivity Induced in Thin Film Nanoenergetics for Small Arms Primers

Mr. Daniel Yates, Spectre Enterprises

WEDNESDAY, MAY 3, 2017

7:00 AM - 5:00 PM **Registration Open** 7:00 AM - 7:30 AM **Networking Breakfast**

7:30 AM - 7:40 AM **Administrative Announcements**

> Mr. Brian Berger, Chairman, Small Arms Committee; Global Technologies for Defense and Security America Corp.

7:40 AM - 8:40 AM Session I: MCSC PM Weapons

COL Michael A. Manning, USMC, USMC PM Infantry Weapon Systems

8:40 AM - 9:40 AM **Session II: PM Soldier Weapons**

Chair: COL Brian Stehle, USA, PM Soldier Weapons

- LTC Loyd Beal, III, USA, Product Manager, Crew Served Weapons
- LTC Steven Power, USA, Product Manager, Soldier Weapons

9:40 AM - 10:10 AM **Networking Break - Exhibit Hall**

10:10 AM - 11:10 AM Session III: PM MAS Chair: COL Moises Gutierrez, USA, Project Manager, Maneuver Ammunition Systems

- LTC John Masternak, USA, Product Manager, Maneuver Ammunition Systems
- Mr. Christopher Seacord, Product Manager, Maneuver Ammunition Systems

11:10 AM - 12:10 PM Session IV: NATO Weapons and Sensors Working Group Panel Discussion

Chair: Dr. Barton Halpern, NATO Weapon and Sensor Group Chairman

- Mr. Mark McFadden, JSSAP, U.S. Army ARDEC
- Dr. David Dye, Naval Surface Warfare Center, Crane Division
- Mr. Adam Jacob, U.S. Army ARDEC
- Mr. David Long, Naval Surface Warfare Center, Crane Division
- Mr. Wayde Thomka, PM Soldier Sensors and Lasers, U.S. Army
- Mr. Hendrik Vercruyssen, Belgian Defence
- CWO John Yoshida, Soldier Systems Program Management (DSSPM) Canadian Armed **Forces**

12:10 PM - 1:10 PM **Networking Luncheon**

1:10 PM - 2:10 PM Session V: PM Soldier Sensors & Lasers

> Co-Chair: Mr. Lloyd Luedtke, PM Soldier Sensors and Lasers Co-Chair: Mr. Wayde Thomka, Technology Management Director, PM Soldier Sensors

and Lasers

Session VI: JSSAST Panel 2:10 PM - 3:10 PM

Chair: Mr. Augustine Funcasta, U.S. Army RDECOM-ARDEC

- Col Christopher Deguelle, USAF, U.S. Air Force Security Forces Center
- Mr. Craig LaMudge, U.S. Coast Guard
- CDR Christopher England USN, N96C, Naval Surface Warfare
- LTC Mark Owens, USA, PEO SOF Warrior
- COL Kurt "Travis" Thompson, USA, Soldier Requirements Division
- Mr. Christopher Woodburn, Maneuver Branch Marine Corps Capabilities Development Directorate

3:10 PM - 3:40 PM **Networking Break - Exhibit Hall**

3:40 PM - 5:00 PM

Session VII: JSSAP Session

Chair: Mr. John Edwards, U.S. Army RDECOM-ARDEC

3:40 PM - 4:00 PM Optimization of Machine Gun Barrels Using Additive Manufacturing (19254)

Mr. Adam Jacob, U.S. Army ARDEC

JSSAP Science and Technology Advisory Council (19258) 4:00 PM - 4:20 PM

Dr. Barton Halpern, U.S. Army ARDEC

WEDNESDAY, MAY 3, 2017 CONTINUED

4:20 PM - 4:40 PM Measurement and Quantification of Blowback Resultant of Suppressor Use in Small Arms

(19270)

• Mr. Adam Jacob, U.S. Army ARDEC

4:40 PM - 5:00 PM One-Way Luminescence (OWL) for Small-Caliber Ammunition (19402)

• Mr. William Battistelli, U.S. Army ARDEC

5:00 PM Adjourn

THURSDAY, MAY 4, 2017

7:00 AM - 12:15 PM Registration Open

7:00 AM - 8:00 AM Networking Breakfast

8:00 AM - 8:10 AM Administrative Announcements

• Mr. Brian Berger, Chairman, Small Arms Committee; Global Technologies for Defense and Security America

	Session VIII: Ammunition Session Chair: Dr. Dion Serben, PhD, NSWC IHEODTD	Session IX: Related Enabling Technology and Modeling and Simulation (RETMS) Session Chair: Mr. Raymond Chaplin, ME, ARDEC
8:10 AM - 8:30 AM	 .50 Caliber Baseline Study Overview, Results, and Emerging Requirements (19170) Mr. Stephen McFarlane, U.S. Army, PMMAS 	Test Methods for Quantitative Small Arms Flash Measurements (19406) • Dr. David Dye, NSWC Crane
8:30 AM - 8:50 AM	The Effects of Propellent Position on Small Caliber Ballistic Performance (19293) • Ms. Connie Lusto, U.S. Army, ARDEC	Development of Standardized Test Methods for Quantitative Small Arms Thermal Signature Measurements (19407) • Dr. David Dye, NSWC Crane
8:50 AM - 9:10 AM	Factors Affecting Dispersion of M118LR Sniper Ammunition (19393) • Mr. Zachary Krogstad, U.S. Army ARDEC	Studies on Composition and Manufacturing Process for 5.56mm Tracer Ammunition (19420 and 19433) • Mr. Daniel Mansfield, Orbital ATK
9:10 AM - 9:30 AM	Maintaining Overmatch and Standardization for Future NATO Small Arms (19394) • Mr. David Zhou, Independent	
9:30 AM - 9:50 AM	Advances in 6.5mm and 7.62mm Cased Telescoped Small Arms Systems (19423) • Mr. Paul Shipley, Textron Systems/AAI Corporation	Suppressed Upper Reciever (SURG) Testing Methods (19422) • Mr. Caleb McGee, NSWC Crane
9:50 AM - 10:10 AM	Design and Implementation of Reduced Range Training Ammunition (19429) • Mr. Raymond Chaplin, U.S. Army ARDEC	Improving 5.56 Tracer Ammunition Dispersion (19435) • Mr. Andy Boman, Orbital ATK
10:10 AM - 10:30 AM	Enhanced Training with Small Caliber Plastic Short Range Training Ammunition (19468) • Mr. Fredrik Erninge, Nammo Vanäsverken AB	

10:30 AM - 10:50 AM	Networking Break - Exhibit Hall
10:50 AM - 12:10 PM	Session X: Weapons Chair: Mr. David Long, Technical Warrant Holder (acting) Small Arms and Weapons Small Arms Weapons Systems Division Chief Engineer, NSWC Crane
10:50 AM - 11:10 AM	Multiple Trajectory 40mm Grenade Launching System (19185) Mr. Howard Kent, Armor Development Group, LLC
11:10 AM - 11:30 AM	Phase Change Micro-Barrel Jacket Liquid Cooled Machine Gun Barrel For Continuous Fire (19187) • Mr. Howard Kent, Armor Development Group, LLC
11:30 AM - 11:50 AM	KEYMOD™ VS. M-LOK™ TM Modular Rail System Comparison (19427) • Mr. Caleb McGee, NAVSEA
11:50 AM - 12:10 PM	Evolving Legacy DON Stabilized Small Arms Weapon Systems by Enhancing At-Sea
	Live Fire Testing Without Using Water (19291) • Dr. Mark Thoreson, NSWC Crane
12:10 PM - 12:15 PM	 Closing Remarks Mr. Brian Berger, Chairman, Small Arms Committee; Global Technologies for Defense and Security America
12:15 PM	Load Buses and Depart for Technology Demonstration
2:00 PM - 5:00 PM	Live Fire Demonstrations Chair: Mr. Alan Matthews, <i>PM Weapons MCSC</i>
5:00 PM - 6:00 PM	Transport to Convention Center

WEDNESDAY, MAY 3, 2017

7:00 AM - 5:50 PM	Registration Open
7:00 AM - 8:00 AM	Networking Breakfast
8:00 AM - 8:05 AM	 Administrative Announcements Mr. Matt Solverson, Chair, GARM Committee; Director, Medium Caliber Ammunition Marketing and Business Development, General Dynamics Ordnance and Tactical Systems
8:05 AM - 8:25 AM	Technology Impacts Keynote Address Mr. Joe Pelino, Director of Technology, U.S. Army ARDEC
8:25 AM - 9:50 AM	MRAS Panel Discussion
	Chair: Mr. Dave Broden, NDIA Armament Division Chair; President, Broden
	 Resource Solutions, LLC Mr. John Hedderich, III, U.S. Army, ARDEC COL William Nuckols, USA, Mounted Requirements Division, U.S. Army COL Moises Gutierrez, USA, Maneuver Ammunition Systems Mr. Jerome Dunn, DARPA
9:50 AM - 10:30 AM	Armament Systems Session
	Session Chairs: Mr. Steven Sohm, BAE Systems and Mr. Anthony Cannone,
	U.S. Army ARDEC
9:50 AM - 10:10 AM	 A New Concept in Mobile Weapon Systems (19375) Mr. Jerome Nathan, Senior Design Engineer, Mandus Group, Ltd.
10:10 AM - 10:30 AM	Abrams Lethality Enabler (ALE) (19476) • Mr. Anand Bahadur, U.S. Army ARDEC
10:30 AM - 11:00 AM	Networking Break - Exhibit Hall
11:00 AM - 11:40 AM	Direct and Indirect Fire Guns Session Session Chairs: Mr. Darrel Morris, <i>United Technologies Sensors and Intergrated Systems</i> and Ms. Robin Lacy, <i>NSWC-Dahlgren</i>
11:00 AM - 11:20 AM	 25mm MK38 MOD 3 Machine Gun System Qualification Status (19444) Mr. Jim McConkie, NSWC Dahlgren
11:20 AM - 11:40 AM	 Design of a Muzzle Brake to Reduce Firing Impulse Noise During Training (19204) Mr. Alex Davies, <i>QinetiQ</i>
11:40 AM - 2:35 PM	Ammunition Session Session Chairs: Mr. Mike Pattison, <i>Meggitt Defense Systems</i> and Mr. Ralph Tillinghast, <i>U.S. Army ARDEC</i>
11:40 AM - 12:00 PM	 Guided Projectiles for Enhanced Expeditionary Engagement Capability (19271) Mr. Sanford Steelman, NSWC Dahlgren
12:00 PM - 1:30 PM	Networking Luncheon - Exhibit Hall
1:30 PM - 2:30 PM	Ammunition Session Continued
1:30 PM - 1:50 PM	 25mm APEX Ammunition Ms. Eva Friis, Nammo Raufoss AS
1:50 PM - 2:10 PM	 40mm Net Munition for UAS Defeat Mr. Tomasz Blyskal, U.S. Army ARDEC

WEDNESDAY, MAY 3, 2017 CONTINUED

2:10 PM - 2:30 PM	Leveraging Next Generation Extended Range, Precision Mortars as Air Dropped Weapons (19401) • Mr. Alan Perkins, UTC Aerospace Systems
3-20 PM 3-E0 PM	Fire Control Session
2:30 PM - 3:50 PM	Session Chairs: Mr. Mark Serben, <i>U.S. Army ARDEC</i> and Mr. Stephen Sohm, <i>BAE Systems</i>
2:30 PM - 2:50 PM	 Rethinking User Interface Design and Evaluation (19343) Ms. Korinne Dobosh, U.S. Army ARDEC
2:50 PM - 3:10 PM	 Direct Lay Laser for Nighttime Mortar Engagements (19290) Mr. Steven Sadowski, U.S. Army ARDEC
3:10 PM - 3:30 PM	Third and Fourth Generation Air-Bust Programming Technology - Ballistic Kernels, Processors, Sensors and Methodologies (19419) • Mr. Kevin Sullivan, NOSTROMO
3:30 PM - 3:50 PM	Automated Pointing of Indirect Weapon Systems - A Lesson in Kinematics (19256) • Mr. Joshua Stapp, U.S. Army ARDEC
3:50 PM - 4:10 PM	Networking Break in Exhibit Hall
4:10 PM - 5:30 PM	Missiles and Rockets Session Session Chairs: Mr. Steve Piper, Piper Pacific International and Mr. Howie Wendt, NSWC Dahlgren
4:10 PM - 4:30 PM	Composite Canister Profile Manufacturing by Pultrusion Process (19397) • Mr. Erdal Sapanci, <i>Roketsan</i>
4:30 PM - 4:50 PM	APKWS Responds to Fixed Wing Need (19414) • Mr. Mark Falco, BAE Systems
4:50 PM - 5:10 PM	Future Fires - Next Generation Expeditionary USMC Artillery Concepts (19208) • Mr. Kevin Lefeave, NSWC Dahlgren
5:10 PM - 5:30 PM	Advanced Shoulder-Launched Low-Cost Missiles • LTC Gideon Weiss, USA (Ret), Rafael USA, Inc.
5:30 PM - 5:50 PM	Warheads and Energetics Session Session Chairs: Mr. Richard Cadille, <i>Kistler</i> and Mr. Jeff Siewert, <i>Arrow Tech Associates, Inc.</i>
5:30 PM - 5:50 PM	 MSIAC - Supporting the Munitions Safety Community (19250) Dr. Ernest Baker, NATO Munitions Safety Information Analysis Center
5:50 PM	Adjourn

THURSDAY, MAY 4, 2017

7:00 AM - 12:00 PM Registration Open

7:00 AM - 8:00 AM Networking Breakfast

8:00 AM - 11:20 AM Concurrent Sessions

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	Continuation of Warheads and Energetics Session Session Chairs: Mr. Ralph Tillinghast, U.S. Army ARDEC and Mr. Jeff Siewert, Arrow Tech Associates, Inc.	U.S. Citizens Only* Session Chairs: Mr. Mark Serben, <i>ARDEC</i> and Mr. Anthony Cannone, <i>ARDEC</i>
8:00 AM	Sub-Miniature Laser Igniters (19472) Mr. John Hirlinger, <i>U.S. Army ARDEC</i>	U.S. Ammunition Industrial Base - Chemical Supply Vulnerabilities (19331) Mr. Douglas Marqueen, Naval Surface Warfare Center Dahlgren Division
8:20 AM	Accurate Determination of Weapon System Attitude in a Testing Environment (19426) Mr. Andrew Tse, U.S. Army ARDEC	Advanced High Thermal Conductivity High Erosion Resistant Light Weight Gun Barrels (19438) Mr. Brian Beckwith, <i>ATS-MER, LLC</i>
8:40 AM	Development of Accurate Finite Element Models and Testing Procedures for Bolted Joints in Large Caliber Gun Weapon Systems (19409)	JSF Gun System Qualification Test Results (19410) Mr. Matthew Diehl, <i>General Dynamics -OTS</i>
	Mr. Michael Koehler, <i>U.S. Navy</i>	
9:00 AM	Mr. Michael Koehler, <i>U.S. Navy</i> Adjourn	Networking Break - Exhibit Hall
9:00 AM 9:20 AM		Networking Break - Exhibit Hall High Temperature Composite Mortar Tubes (19425)* Mr. Joshua Root, U.S. Army ARDEC
		High Temperature Composite Mortar Tubes (19425)*
9:20 AM		High Temperature Composite Mortar Tubes (19425)* Mr. Joshua Root, <i>U.S. Army ARDEC</i> Electrochemical Machining of Cannon Barrels (19417)*
9:20 AM 9:50 AM		High Temperature Composite Mortar Tubes (19425)* Mr. Joshua Root, U.S. Army ARDEC Electrochemical Machining of Cannon Barrels (19417)* Mr. Anthony Cannone, U.S. Army ARDEC The Influence of Variable Winds on Direct Fire Engagements (19364)*
9:20 AM 9:50 AM 10:10 AM		High Temperature Composite Mortar Tubes (19425)* Mr. Joshua Root, U.S. Army ARDEC Electrochemical Machining of Cannon Barrels (19417)* Mr. Anthony Cannone, U.S. Army ARDEC The Influence of Variable Winds on Direct Fire Engagements (19364)* Mr. Tomas Bober, U.S. Army ARDEC ARDEC Munition Technology Development for a Multi-Role Mission (19475)*

11:10 AM - 11:20 AM Concluding Remarks

12:15 PM Depart for Technology Demonstration

^{*}Government attendees with a CAC Card must show that credential to gain entrance.

WEDNESDAY, MAY 3, 2017

7:00 AM - 3:50 PM	Registration Open
7:00 AM - 8:00 AM	Networking Breakfast
8:00 AM - 9:20 AM	Future Concepts for the Next Fight - Third Offset Session Chair: Dr. Bart Halpern, Chief Technical Officer, U.S. Army ARDEC
8:00 AM - 8:20 AM	Do Small Arms Have a Role in the Tactics of Future Battlefield Confrontations? (19268)
	Dr. Bart Halpern, Chief Technical Officer, U.S. Army ARDEC
8:20 AM - 8:40 AM	 When Will Weapon Systems Think for Themselves? How Artificial Intelligence and Machine Learning May Play a Role in Our Future (19289) Mr. Ralph Tillinghast, U.S. Army ARDEC
8:40 AM - 9:00 AM	Augmented Reality Fire Control Enhancements (19306)Mr. David Musgrave, U.S. Army ARDEC
9:00 AM - 9:20 AM	SPARCS: Soldier Parachute Aerial Reconnaissance Camera System (19442) • Mr. Cheng Hok Aw, Pte, Ltd.
9:20 AM - 9:50 AM	Networking Break - Exhibit Hall
9:50 AM - 11:50 AM	Sensors and Enabling Technology Session Session Chair: Mr. Dan Hartman, Spectra Technologies, LLC
9:50 AM - 10:10 AM	3D Intelligent Technical Data (19195)Ms. Lynn E. Smith, U.S. Army ARDEC
10:10 AM - 10:30 AM	 Air Blast from a Structural Reactive Material Solid (19288) Dr. Fan Zhang, Defence Research and Development Canada
10:30 AM - 10:50 AM	 Integrated Antenna and Package Technologies for Projectiles (19292) Mr. Lawrence Rubin, Systems Engineering Group, Inc.
10:50 AM - 11:10 AM	Weapon-Target Assignment Optimization that Minimizes the Cost of Engaging Weapons, Minimizes Overkill of Targets, and Keeps Collateral Damage in Check (19355) • Dr. Zbigniew Bogdanowicz, U.S. Army ARDEC
11:10 AM - 11:30 AM	 3D Printed Weapons: Challenges and Opportunities in Advanced Manufacturing (19403) Dr. Sharon Flank, <i>InfraTrac</i>
11:30 AM - 11:50 AM	Atmosphereic Measurements in Propane and Liquid-Pool Fast Cook-off Fires
II.30 AM II.30 AM	(19464)
	Dr. David Hubble, <i>U.S. Navy</i>
11:50 AM - 12:50 PM	Luncheon - Exhibit Hall
12:50 PM - 2:30 PM	U.S. Only Session: Directed Energy, Rail Gun & Hypervelocity Projectile Session Chair: Dr. Jennifer Ciezak–Jenkins, U.S. Army Research Laboratory
12:50 PM - 1:10 PM	Railgun Technology Development (19179) Mr. Robert Taylor, <i>General Atomics</i>
1:10 PM - 1:30 PM	 Disruptive Energetics - Fundamental Science for 3rd Offset Needs (19181) Dr. Jennifer Ciezak-Jenkins, U.S. Army Research Laboratory
1:30 PM - 1:50 PM	Cyber Risk Management (19189)Ms. Cecilia Anastos, <i>Meta Intelligence, LLC</i>

WEDNESDAY, MAY 3, 2017 CONTINUED

1:50 PM - 2:10 PM	Next Generation Fire Control System Training Simulation Capability (19411) • Mr. Matthew Diehl, General Dynamics Ordnance and Tactical Systems
2:10 PM - 2:30 PM	Next Generation Fire Control System with RF Airburst (19412) • Mr. Matthew Diehl, General Dynamics Ordnance and Tactical Systems
2:30 PM - 2:50 PM	Networking Break - Exhibit Hall
2:50 PM - 3:10 PM	Advanced Optical Communications Systems for Munitions (19439) • Dr. Stephen Guerrera, Creative Microsystems
3:10 PM - 3:30 PM	Abrams Lethality Enable (19476) • Mr. Anand Bahadur, U.S. Army, ARDEC
3:30 PM - 3:50 PM	Next-Generation Non-Lethal Weapons - Science & Technology (S&T) • Mr. David Law, Joint Non-Lethal Weapons Directorate (JNLWD)
3:50 PM	Adjourn

ARMAMENT DIVISION CHAIR

Mr. Dave Broden

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GUNS, AMMUNITION, ROCKETS & MISSILES COMMITTEE CHAIR

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