

2019 ARMAMENT SYSTEMS FORUM

Leveraging Armament Technology Integration to Achieve Modernization, Overmatch, and Operational Readiness



MONDAY, JUNE 3 (DISTRIBUTION A)

11:00 - 5:00 pm

REGISTRATION

EXHIBIT HALL A LOBBY

		A	

Ballroom A

Ballroom B

Ballroom C

12:30 - 2:00 pm

TUTORIAL 1:

U.S. Export Controls Related to Technology

BALLROOM A

Johanna Reeves

Founding Partner, Reeves & Dola, LLP

TUTORIAL 2:

Requirements Capability Process Intelligence

BALLROOM B

Dwayne Hynes

Acquisition Intelligence Specialist, USD, Department of Defense

TUTORIAL 3:

Middle Tier Acquisition

- Section 804

BALLROOM C

Lynne Giordano

Professor of Acquisition Management, Defense Systems Management College, Defense Acquisition University

2:00 - 3:30 pm

TUTORIAL 4:

Industrial Base Cyber Risks and Protection

BALLROOM A

Susan Warshaw Ebner Partner, Stinson LLP

Rolando Sanchez Sanchez PLC

TUTORIAL 5:

What Gun and Ammunition Designs Need to Know About Case-Chamber Interaction

BALLROOM B

Jeff Siewert

Systems Engineer, Arrow Tech Associates

TUTORIAL 6:

Evolving Platform and Armament System Integration

BALLROOM C

Dr. Joshua Keena

Assistant Professor Automotive/ Weapons Thread Leader, U.S. Military Academy at West Point

Mark Signorelli

BAE Systems Platforms and Services

3:30 - 5:00 pm

TUTORIAL 7:

Artificial Intelligence

BALLROOM A

Ross Arnold

Senior Research Engineer for Artificial Intelligence, Combat Capabilities **Development Center Armaments** Center, U.S. Army Futures Command

Dr. Jorge Buenfil

Model-Based Systems Engineer Lead, Combat Capabilities Development Center Armaments Center, U.S. Army **Futures Command**

TUTORIAL 8:

DOD Foreign Comparative Testing Overview

BALLROOM A

Col Doug Creviston, USAF

Director of the DoD Comparative Testing Office, OUSD R&E

TUTORIAL 9:

Intellectual Property Objectives, Criteria, and Approach

BALLROOM A

Col Wesley Hallman, USAF (Ret)

Senior Vice President, Policy and Strategy, NDIA

Corbin Evans

Director, Regulatory Policy, NDIA



TUESDAY, JUNE 4 - GENERAL SESSION (DISTRIBUTION A)

7:00 am - 6:00 pm **REGISTRATION**

EXHIBIT HALL A LOBBY

7:00 – 8:00 am NETWORKING BREAKFAST

GRAND BALLROOM FOYER

8:00 – 8:10 am WELCOME AND OPENING REMARKS

GRAND BALLROOM

Dave Broden

NDIA Armament Division Chair

Dave Chesebrough

Vice President, Divisions, NDIA

8:10 – 8:30 am WELCOME FROM TEAM CRUCIBLE

GRAND BALLROOM

John Garman
President, Crucible

8:30 – 9:00 am NDIA ENTERPRISE VISION AND POLICY INITIATIVES

GRAND BALLROOM

MG James Boozer, USA (Ret) Executive Vice President, NDIA

Col Wesley Hallman, USA (Ret) Senior Vice President, Policy, NDIA

9:00 – 9:30 am KEYNOTE SPEAKER

GRAND BALLROOM

MG Brian Cummings, USA (Invited)

Program Executive Officer, Ground Combat Systems (PEO GCS)

Invited

9:30 – 10:00 am FEATURED SPEAKER

GRAND BALLROOM

BG Alfred Abramson, USA

Program Executive Officer & Senior Commander, Picatinny Arsenal, Joint Program Executive Office Armaments and

Ammunition (JEPO A&A)

9:30am – 6:30pm EXHIBIT HALL OPEN

EXHIBIT HALL A

10:00 - 10:30 am NETWORKING BREAK & POSTER REVIEW

EXHIBIT HALL A

10:30 - 11:00 am FEATURED SPEAKER

GRAND BALLROOM

COL John Rafferty, USA

Director, Long Range Precision Fires Cross Functional Team, U.S. Army Futures Command

11:00 – 11:30 am FEATURED SPEAKER

GRAND BALLROOM

John Hedderich III

Director, CCDC Armament Center, U.S. Army Futures Command

11:30 – 12:00 pm FEATURED SPEAKER

GRAND BALLROOM

Dr. Juanita Christenson (Invited)

Executive Director, CCDC Aviation and Missile Center, U.S. Army Futures Command

12:00 – 1:00 pm NETWORKING LUNCH

EXHIBIT HALL A

1:00 – 1:30 pm FEATURED SPEAKER

GRAND BALLROOM

Ashley Johnson

Technical Director, NSWC Indianhead Explosive Ordnance Disposal Technology Division

1:30 – 2:00 pm FEATURED SPEAKER

GRAND BALLROOM

Dr. David Lambert

Chief Scientist, Munitions Directorate, Air Force Research Laboratory

SMALL ARMS TRACK (DISTRIBUTION A)

ROOM AF

Joint Service Small Arms Synchronization (JSSAS) Panel

1:00 - 2:00 PM

MAJ Ian Welch

MILDEP, JSSAP Office, Combat Capabilities Development Center, Armaments Center, U.S. Army Futures Command *Moderator*

Matthew Walker

Capabilities Developer, Soldier Lethality Cross Functional Team, U.S. Army Futures Command

Christopher Woodburn

Capabilities Development Director

Col Enrico Venditti, USAF

US Air Force Security Forces Center

Craig LaMudge

Office of Specialized Capabilities, US Coast Guard

LCDR Peter Downes, USN

DCNO N9 Invited

LTC Marcos Cervantes, USA

PEO SOF Warrior



2:00 - 2:30 pm

WEAPONS FOR A DISAGGREGATE BATTLE

GRAND BALLROOM

MG Robert Scales, USA (Ret)

Former Commandant, U.S. Army War College

SMALL ARMS TRACK

ROOM AF

Joint Services Small Arms Program Introduction

2:00-2:05 PM

Augustine Funcasta

Chief JSSAP Office, CCDC Armaments Center, U.S. Army Futures Command

Joint Services Small Arms Requirements Integration (JSSARI)

2:00 - 2:15 PM

Mark McFadden

JSSARI Working Group Chairman, Combat Capabilities Development Center, Armaments Center, U.S. Army Futures Command

Joint Science And Technology Advisory Council (JSATC)

2:15 - 2:30 PM

Marc Ritt

JSATC Deputy Chairman, CCDC Armaments Center, U.S. Army Futures Command

2:30 - 3:00 pm

NETWORKING BREAK & POSTER REVIEW

EXHIBIT HALL A

3:00 - 3:45 pm

USMC CAPABILITY OBJECTIVES AND PROGRAMS

GRAND BALLROOM

Col Michael Manning, USMC

USMC Portfolio Manager Ground Combat Element Systems Moderator

LtCol Tim Hough, USMC

Program Manager, Infantry Weapons

LtCol Brad Sams, USMC

Program Manager, Fires, USMC

John Knapp

Program Manager, Infantry Combat Equipment, USMC

3:45 - 4:30 pm

JOINT NON-LETHAL WEAPONS DIRECTORATE (JNLWD)

GRAND BALLROOM

Kevin Swenson

Acquisition Division Chief, Joint Non-Lethal Weapons Directorate (JNLWD)

David Law

Technology Division Chief, Joint Non-Lethal Weapons Directorate (JNLWD)

4:30 - 5:00 pm

FEATURED SPEAKER

GRAND BALLROOM

Charlie Zisette

Executive Director, National Armaments Consortium

5:00 - 5:10 pm

CLOSING REMARKS

EXHIBIT HALL A

5:00 - 6:30pm

RECEPTION IN EXHIBIT HALL

EXHIBIT HALL A

SMALL ARMS TRACK

ROOM AF

Joint Services Small Arms Program Portfolio

3:00 - 3:30 PM

Terence Rice

Projects Managements Engineer, CCDC Armaments Center, U.S. Army Futures Command

Jssap Special Topics Update

3:30 - 4:00 PM

Matthew Moeller

Project Officer, Next Gen Squad Weapons Technologies, CCDC Armaments Center, U.S. Army Futures Command

Adam Jacob

Suppressor IPT Lead, Signature Suppression, CCDC Armaments Center, U.S. Army Futures Command

Small Arms Awards Ceremony

4:00 - 5:00 PM

Chinn Award

Thomas Nelson

Presented by Dan Shea

Hathcock Award

Bryan Litz

Presented by Sal Fanelli

Ambrose Award

Arrow Tech Associates, Inc accepted by

Jeff Siewert

Presented by Sal Fanelli

Professional Service Award

Mike Tauber, in memoriam

Presented by Brian Berger

WEDNESDAY, JUNE 5



	Small Arms Track: Session 1	GARM Track: Session 1	UEA Track: Session 1
	Room A, Distribution A	Room CD, Distribution A	Room BE, Distribution D
7 am		BREAKFAST	
7:30 am	Small Arms Administrative Announcements Brian Berger NDIA Small Arms Committee Chair	GARM Administrative Announcements	UEA Objectives, Purpose, Challenges, Opportunities Alan Kull NDIA UEA Committee Chair
7:40 am	21834 Modern Trends, Threats, and Developments in Global Ordnance Dan Shea Phoenix Defence	Matt Phillips NDIA GARM Committee Chair	21797 Cost Effective C-UAS using COTS Components to improve Exchange Rate Howard Kent Armor Development Group LLC
8:00 am	PM Maneuver Ammunitions Systems (MAS) Panel COL Hector Gonzalez Project Manager, Maneuver Ammunition Systems Moderator LTC Andre Johnson. USA Product Manager, Medium Caliber Ammunition LTC Andrew Lunoff, USA Product Manager, Small Caliber Ammunition	CCDC Armament Center GARM Related System Technology Mike George Acting Director of Technology, Strategic Technology Investment Office	Semi-Autonomous Slew and Firing to defeat Highly Maneuvering Aerial Targets Cliff Chang Combat Capabilities Development Center Armaments Center, U.S. Army Futures Command 21971 40MM Low Velocity Counter Unmanned Aerial System Cheng Hok Aw Advanced Material Engineering
8:30 am		AMRDEC GARM Related Technology Dr. Michael Richman CCDC Aviation and Missile Command, U.S. Army Futures Command	21988 Small UAS Gunship Lucius Taylor IV NSWC Crane
9:00 am	PM Soldier Weapons Panel COL Elliott Caggins, USA Product Manager, Soldier Weapons Moderator LTC Jason Bohannon, USA Product Manager, Next Generation Weapons LTC Steven Power, USA	Close Combat Support to Army Modernization Priorities COL Jon Slater, USA Project Manager, Close Combat Systems	21906 How Block Chain and Smart Contracts will impact Armament Systems Ralph Tillinghast CCDC Armaments Center, U.S. Army Futures Command
9:30 am	Product Manager, Soldier Weapons Peter Errante Product Director, Crew Served Weapons Matthew Walker Capabilities Developer, Soldier Lethality Cross Functional Team, U.S. Army Futures Command	Combat Ammunition Systems Support to Army Modernization Priorities	21911 Pulsed Power Developments for Directed Energy Systems Charlie Wiesel VIS LLC

	Small Arms Track: Session 1	GARM Track: Session 1	UEA Track: Session 1
	Room A, Distribution A	Room CD, Distribution A	Room BE, Distribution D
10 am		BREAK	
10:30 am	21818 Unconventional Emerging Technology Armament Systems Vincent Battaglia BML Tool Manufacturing	Next Generation Combat Vehicle (NGCV) Vision COL Warren Sponsler, USA Lead, Next Generation Combat Vehicles Cross Functional Team, U.S. Army	21968 Reference Architecture for Deep Learning Based Security Systems Jorge Buenfil CCDC Armaments Center, U.S. Army Futures Command
10:50 am	Lightweight Small Cal	NGCV and Related Weapon and Ammunition Framework Guidelines	21802 Multicore Considerations for Safety Critical Software Applications Brian Connell CCDC Armaments Center, U.S. Army Futures Command
11:10 am	Ammunition Panel Todd Townsend PM, MAS Moderator Mark Owens True Velocity	NGCV System, Technology, and Vision Panel LTC Andre Johnson. USA Product Manager, Medium Caliber Ammunition	22036 Low Cost COTS-Based VTOL UAS for Stealthy Take Downs Robert Serino Applied Research Associates, Inc.
11:30 am	Lanse Padgett PCP Joe Gibbons MAC Pierre Lemay GD-OTS Canada Gino Spinos Concurrent Technology Corp (CTC)	Robert Ruhland Northrop Grumman Tim Brumfield NGC-MESA Matt Phillips General Dynamics Gary Milcheck Combat Capabilities Development Center Armaments Center, U.S. Army Futures Command Jeff Hart Combat Capabilities Development Center Armaments Center, U.S. Army Futures Command	Applying Multi-Agent Swarm Artificial Intelligence to Armament Systems Ross Arnold Combat Capabilities Development Center Armaments Center, U.S. Army Futures Command
12 pm		LUNCH	



	Small Arms Track: Session 2	Small Arms Track: Session 3	GARM Track: Session 1	UEA Track: Session 1
	Room A, Distribution A	Room F, Distribution A	Room CD, Distribution A	Room BE, Distribution D
1:00 pm	Fire Control Technology and System Panel Terence Rice Projects Management Engineer, JSSAP Government Moderator Bob Guarasi Business Development, Wilcox	Propellant Optimization Tyler Holland CCDC Armaments Center, U.S. Army Futures Command Andrew Caldwell Olin Corp – Winchester Division	Long Range Precision Fires (LRPF) Panel Dave Broden	Distributed, Coordinated, and Cooperative Defeat Technologies
1:20 pm	Industries Industry Moderator Paul Koerner PM Soldier Weapons Doug Cohen PM Soldier Weapons Lloyd Luedtke	21843 Contributing Factors in Small Cal Pierced Primers Andy Boman Northrop Grumman Innovation Systems	Armaments Division Chair Moderator COL John Rafferty LRPF CFT Director, U.S. Army Futures Command Ole Knudson Northrop Grumman	Dr. David Lambert Air Force Research Laboratory
1:40 pm	DPM SSL Ross Towers Fire Control, U.S. Army Futures Command Darren Ward Fire Control, U.S. Army Futures Command Dr. Mark Thoreson NSWC Crane Dean Kissinger PM, IVAS	21881 Environmentally Benign Composition for the M209 Shotshell Primer Jared Moretti CCDC, U.S. Army Futures Command Jim Wedwick Northrop Grumman Corporation	Northrop Grumman David Musgrave CCDC, U.S. Army Futures Command Rich Granitzki CCDC, U.S. Army Futures Command	Emerging Technology System Perspective – Army Craig Robins U.S. Army Space and Missile Defense Command Technical Center
2:00 pm	Tony Bacarella DRS EOIS Emmet Burke BAE Systems Brian Bockmon Aim-Lock Inc Lennart Ljungfelt Aimpoint	21910 Incendiary Composition Analytical Study for Small Cal Ammunition Daniel Mansfield Northrop Grumman Corporation, Lake City Army Ammunition Plant	Long Range Precision Fires CCDC AC	Emerging Technology System Perspective – Navy Frank Peterkin Office of Naval Research
2:30 pm	BREAK			
3:00 pm	21832 "Gummy" metals – why difficult to cut and what can be done about it Jason Davis NSWC Crane	21830 Case Rupture Zachary Krogstad CCDC Armament Center, U.S. Army Futures Command Robert Woolsey Northrop Grumman Corporation	Long Range Precision Fires CCDC Aviation and Missile Center	Emerging Technology System Perspective - USAF Dr. Don Shiffler AFATL Kirtland

	Small Arms Track: Session 2	Small Arms Track: Session 3	GARM Track: Session 1	UEA Track: Session 1
	Room A, Distribution A	Room F, Distribution A	Room CD, Distribution A	Room BE, Distribution D
3:20 pm	21823 0.50 Cal Ball/Trace Cartridge Match Improvements David Stubler Northrop Grumman	21758 Improving Gun Barrel Life and Accuracy George Kontis Gun IQ International LLC	Future Vertical Lift (FVL) and Armament System Panel Dave Broden NDIA Armaments Division Chair Moderator Michael Colonnello CCDC Armaments Center, U.S. Army Futures Command Bradford McHugh CCDC Armaments Center, U.S. Army	22044 Enhancing Weapons Capabilities through Smart Sensors Robert Meng Secubit Inc
3:40 pm	21987 AeroShell Armor- Piercing Projectiles Lucius Taylor IV NSWC Crane	21788 100 KPsi Demonstrator Rifle: Over-Proof Round Pressures to Improve Advanced Ballistic Performance Howard Kent Armor Development Group LLC		22067 Speed of Battle LTC Johnson, USA WSEC MILDEP, CCDC Armaments Center, U.S. Army Futures Command
4:00 pm	21992 Sound Testing of Small Arms Weapons Laura Best NSWC Crane	21807 Systemic Effects of Cartridge and Weapon Barrel Variation Thomas Gmyrek Caliber .50 APO	Futures Command	21969 Quantifying the Accuracy of Wind Estimation Techniques in Direct Fire Ballistics Tomas Bober CCDC Armaments Center, U.S. Army Futures Command
4:20 pm	21993 High Performance Composite Machine Gun Barrels David Armstrong NSWC Crane	21826 Reevaluating Condemnation Criteria for Barrel Erosion/Wear Anthony Hawthorne Combat Capabilities Development Command, U.S. Army Futures Command	Valkyrie Intelligence Brief	22038 Protecting Smart Launchers using Advanced Anti-Spoofing Steve Alexander L3 Technologies
4:40 pm	22066 Full-Auto Cycle Rate Reducer Transforms M4/M16 in New Full- Automatic Fire Scenario Terrence Bender High Performance Firearms LLC	21890 M14 Short Stroke - Analysis of Ammunition and Weapons System Influencing Factors Elyse Barone CCDC Armaments Center, U.S. Army Futures Command	Charlie Burgoyne Valkyrie Intelligence	22064 Virtual Reality Prototyping for Fire Control Platforms David Musgrave CCDC Armaments Center, U.S. Army Futures Command
5:00 pm		NETWORKING	RECEPTION	

THURSDAY, JUNE 6



	Small Arms Track: Session 4	GARM Track: Session 2	GARM Track: Session 3	UEA Track: Session 2
	Room A, Distribution A	Room F, Distribution D	Room CD, Distribution A	Room BE, Distribution D
7 am		BREA	KFAST	
7:30 am	Small Arms Administrative Announcements Brian Berger NDIA Small Arms Committee Chair	GARM Administrative Announcements	GARM Administrative Announcements	UEA Objectives, Purpose, Challenges, Opportunities Alan Kull UEA Committee Chair, NDIA Armaments Division
7:40 am	40mm Low Velocity Jay Bell MAST Technology Inc.	22074 XM913 50mm Chain Gun Technology Development Tim Brumfield Northrop Grumman		Hypersonics Presentation CAPT John Lowry, USN Program Manager Conventional Prompt Strike Strategic Systems Programs Hypersonics Presentation David Lambert Chief Scientist, Munitions Directorate, AFRL
8:00 am	21850 M80A1 Dispersion Reduction Zachary Krogstad CCDC Armament Center, U.S. Army Futures Command Steve Redd Northrop Grumman Innovation Systems	21994 Excalibur Shaped Trajectory Arnaldo Colon Precision Indirect Fires, Land Warfare Systems, Raytheon	TBD	Hypersonics Presentation Arthur Mabbet Director, Adv High Speed Weapons, Raytheon Missile Systems Hypersonics Presentation John Wilcox VP, Advanced Programs & Technology, Northrop Grumman Innovation Systems
8:20 am	21821 Greater Penetration and Lethality for Small Bore Rifle, PDW and Handgun Cartridges Jonathan Berman Ammo and Bullet Mfg, Inc.	22062 155MM Artillery Platform Projective Fallback Sensor Kevin Boland CCDC Armament Center, U.S. Army Futures Command	Development of High Reliability DPICM Replacement Kevin Cochran NSWC IHEOOTD Fuze and Initation Systems Branch	Hypersonics Presentation Kevin Bowcutt Senior Technical Fellow and Chief Scientist of Hypersonics, Boeing Hypersonics presentation

	Small Arms Track: Session 4	GARM Track: Session 2	GARM Track: Session 3	UEA Track: Session 2
	Room A, Distribution A	Room F, Distribution D	Room CD, Distribution A	Room BE, Distribution D
8:40 am	21752 Observations and Opportunities in Small Caliber Dispersion Jeff Siewert Arrow Tech Associates Inc.	21880 Armaments Health Monitoring for Autonomous Systems Anthony Cannone CCDC Armaments Center. U.S. Army Futures Command	Low-Blast High-Impulse Densified Propellant for Recoilles Gun, Rocket, Missile Systems Matthew Sanford Naval Surface Warfare Center Indian Head Explosives Ordnance Disposal Technology Division	Technology and Systems Session Alan Kull UEA Committee Chair, NDIA Armaments Division Moderator CAPT John Lowry, USN Program Manager, Conventional Prompt Strike Strategic Systems Progams David Lambert Chief Scientist, Munitions Directorate, Air Force Research Laboratory Arthur Mabbet Director, Advanced High- Speed Weapons, Raytheon Missile Systems John Wilcox VP, Advanced Programs & Technology, Northrop Grumman Innovation Systems Kevin Bowcutt
9:00 am	Reduced Range Ammunition Panel Maverick Powell USMC PM Ammo Moderator	Technical Challenges Associated with Large Caliber Extended Range Missions: Gun Mounts Samuel Jacobs CCDC Armaments Center. U.S. Army Futures Command	USN Quad City Rock Island Arsenal Cartridge Case Capability Mike Hagn	
9:20 am	Kyle Kampo Combat Capabilities Development Center Armaments Center, U.S. Army Futures Command Evan Poole US Crane Pierre Lemay	Burst Test of Composite Mortar Tube Section: Modeling and Experimentation Andrew Littlefield RDECOM, CCDC Armaments Center. U.S. Army Futures Command	USN Indianhead Trident Plant Revitalization Propulsion Capability/ Technology Wayne Thomas	
9:40 am	GD-OTS Canada Kim Helge Dahl Nammo Talley Inc Marcelo Moreno Companhia Brasileira de Cartuchos (CBC)	Pamela Ferlazzo Combat Capabilities Development Center Armaments Center, U.S. Army Futures Command	Fire Suppression Round Joshua Keena Assistant Professor Automotive/Weapons Thread Leader, U.S. Military Academy at West Point	Senior Technical Fellow and Chief Scientist of Hypersonics, Boeing
10 am		NETWORKI	NG BREAK	



	Small Arms Track: Session 4	GARM Track: Session 2	GARM Track: Session 3	UEA Track: Session 2
	Room A, Distribution A	Room F, Distribution D	Room CD, Distribution A	Room BE, Distribution D
10:30 am	21864 Ammunition Production Equipment Diagnosis Katelyn Riha Northrop Grumman Innovation Systems William Pendexter CCDC, U.S. Army Futures Command GD-OTS Canada	21833 Laser-Based Inspection of Weapon Bores and Chambers James Doyle Laser Techniques Company	Muzzle Obstruction and Obstacle Sensor Enhancement (MOOSE) Joshua Keena Assistant Professor Automotive/Weapons Thread Leader, U.S. Military Academy at West Point	Emerging Technology Systems Panel Alan Kull UEA Committee Chair, NDIA Armaments Division Moderator David Lambert Chief Scientist, Munitions
10:50	21905 Quantifying Bullet Performance against Transparent Barriers Martin Viligiardi QuinteQ	Interplay of Finite Element Modeling and Experiments in a Weapons Development Project John Yagla Bowhead Technical Services	22063 20mm Mechanically Fuzed High Explosive Projectile Trevor Coop General Dynamics	Directorate, AFRL Craig Robin Mike George Acting Director of Technology, Strategic Technology Investment Office Dr. Don Shiffler
11:10 am	Marksmanship Dispersion, Statistical Approach to Dispersion and Recoil Shawn Spickert-Fulton	22001 Simplified Instrumentation for Radiometrically Accurate Flash Movements David Dye	22068 Advanced Shoulder Fired Weapon and Ammunition System Dr. David Grymonpré	AFATL Kirtland
	Combat Capabilities Development Center Armaments Center, U.S.	NSWC Crane	Energetics	
11:40	Wrap Up Brian Berger NDIA Small Arms Committee Chair	21785 Next Generation Carbine Technologies Thomas Grego CCDC Armaments Center, U.S. Army Futures Command	22047 Comprehensive Advanced Artillery Solutions Danny Schirding Elbit Systems Land	Wrap Up and Vision Forward Alan Kull UEA Committee Chair, NDIA Armaments Division
12 pm		CONFERENCE ADJOUTECHNOLOGY FIRIN	JRNS - PROCEED TO G DEMONSTRATION	

TECHNOLOGY FIRING DEMONSTRATION

BUSES DEPART

12:30 pm

BUSES HARD DEPART FOR FIRING DEMONSTRATION

1:30 – 2:00 pm

ARRIVE AT DEMO SITE, SAFETY BRIEFING

2:00 – 2:30 pm

DEMONSTRATING COMPANIES BRIEF TECHNOLOGY INITIATIVES AND FEATURES

2:30 – 3:00 pm

FIRING DEMONSTRATIONS

3:00 – 3:50 pm

ATTENDEE FIRING PARTICIPATION

POSTER SESSION SUMMARIES

Barone, E BOARD 01 ARDEC	Caprara, R BOARD 05 NSWC Crane	Gmyrek, T BOARD 09
M14 Short Stroke – Analysis of Ammunition and Weapon System Influencing Factors.	Kinetic Defeat Modeling and Optimization for Counter-UAS Applications	Systematic Effects of Cartridge and Weapon Barrel Variation.
Boland, K.R BOARD 02 CCDC Armament Center	Cataldi, M.C BOARD 06 ARDEC	Grego, T.C BOARD 10 ARDEC
155MM Artillery Platform Projectile Fallback Sensor.	Using Physics Based Explicit FEA Codes to Model and Simulate Ballistic Impact Events.	Next Generation Carbine Technologies Advanced Barrel Characterization.
Bourque, G	Chaplin, R BOARD 07 ARDEC	Grego, T.C BOARD 11 ARDEC
Improved Ballistic Match and Accuracy for .50 Caliber Reduced Range Ammunition (RRA).	Effects of Rifling Twist Rate and Geometry on Bullet Engraving During Launch.	Next Generation Carbine Technologies Signature and Recoil Reduction.
Buenfil, J.R BOARD 04	Doyle, J.L. BOARD 08 Laser Techniques Company	Grego, T.C
ARDEC Reference Architecture for Deep Learning Based Security Systems with Computer	Laser-based Inspection of Weapon Bores and Chambers to Improve Manufacturing Quality, Optimize Performance and Sustain	Next Generation Carbine Technologies.

Operational Readiness.

Vision and Human in the Loop.

4:00 pm



Hohnecker, K	BOARD 13	Kent, H.D BOARD 22 Armor Development Group LLC	Poret, J BOARD 29 RDECOM-ARDEC
MATLAB Script to Convert Tetrahe to Hexahedrals with Near-Optimal Element Quality.	edrals	Commercial Lightweight Firearms Survey: What's New from the Wide World of the Commercial Firearms Industry.	A Multi-Sensor System for Measuring the Irradiance and Velocity of Live-Fired Red-Light-Emitting Pyrotechnic Tracers.
Hynes, D.D.	BOARD 14	Kent, H.D BOARD 23 Armor Development Group LLC	Serino, R.M.
Acquisition-Intelligence.		Advantages of 21st Century Materials & Manufacturing Processes on Small	Art-of-the-Possible: Low-Cost COTS-Based VTOL-UAS for Stealthy Take-Downs.
Hynes, D.D	BOARD 15	Caliber Ammunition.	Siewert, J BOARD 31
Intelligence as Value Added.		Kent, H.D BOARD 24	Arrow Tech Assoc. Inc
		Armor Development Group LLC	What Gun Gurus Need to Know About Case-Chamber Interaction.
Kampo, K	BOARD 16	On- & Off-Cloud Inventory, Training & Qualification Solutions for Government	Gramber interaction.
Design and Implementation of Rec Range Training Ammunition.	duced	Weapons: Who Knows What About What, What's Condition and Where Everything is for	Tang, C.Z.M BOARD 32 Advanced Material Engineering
		Fleet Management.	STINGER, a Multi-Rotor Gunship.
Kent, H.D	BOARD 17	McFarland, G.J BOARD 25	Tashjian, N.A BOARD 33
Gun Camera Small Arms Application Soldier Worn Network.	ons of The	ARDEC Terminal Performance Model - An Unclassified Damage Model for	ARDEC Predictive Modeling in Small Arms Testing.
Kent, H.D	BOARD 18	use by Industry. Meierhofer, D.J	Woolsey, R BOARD 34 Northrop Grumman
Beating the Heat: Tungsten Ablatic	on	Northrop Grumman Innovation Systems	Case Rupture.
Coatings for Firearms. Kent, H.D.	BOARD 19	Influencing Factors in Dropped and Leaking Primers.	Weisel, C BOARD 35 VIS LLC
Armor Development Group LLC		Morrison, R BOARD 27	Pulsed Power Developments for
How the World Record Sniper Hit Was Meet Charlie TARAC.		Aero Precision Corp	Directed Energy Systems: The Essential Support Element for Rail Guns, Lasers
Kent, H.D.		The Great Pacific N-W Silencer Study: How an Aerospace Manufacturer Approaches	and EM Weapons.
Armor Development Group LLC	JUMNU ZU	Sound Suppressor Design.	Yagla, J BOARD 36
Three Months from Poster to Product; The Frangible AP Story.		Poirier, C.M BOARD 28 STAC-Tactical	Bowhead Technical Services Interplay of Finite Element Modeling
Kent H.D.	BOARD 21	Exploring Cold Weather Performance	and Experiments in a Weapon Development Project.

of Traditional Asphaltic vs. External

Ammunition Sealants.

Kent, H.D. BOARD 21 Armor Development Group LLC

Programmable Dispersion of for Ammunition Production; Using External Ammunition Sealant to Produce Identical or Varying Dispersion on the Production Line. Development Project.