

INTERNATIONAL INFANTRY & JOINT SERVICES SMALL ARMS SYSTEMS SYMPOSIUM, EXHIBITION & FIRING DEMONSTRATION

"Enhancing Small Arms Effectiveness in Current and Future Operations"

HIGHLIGHTS

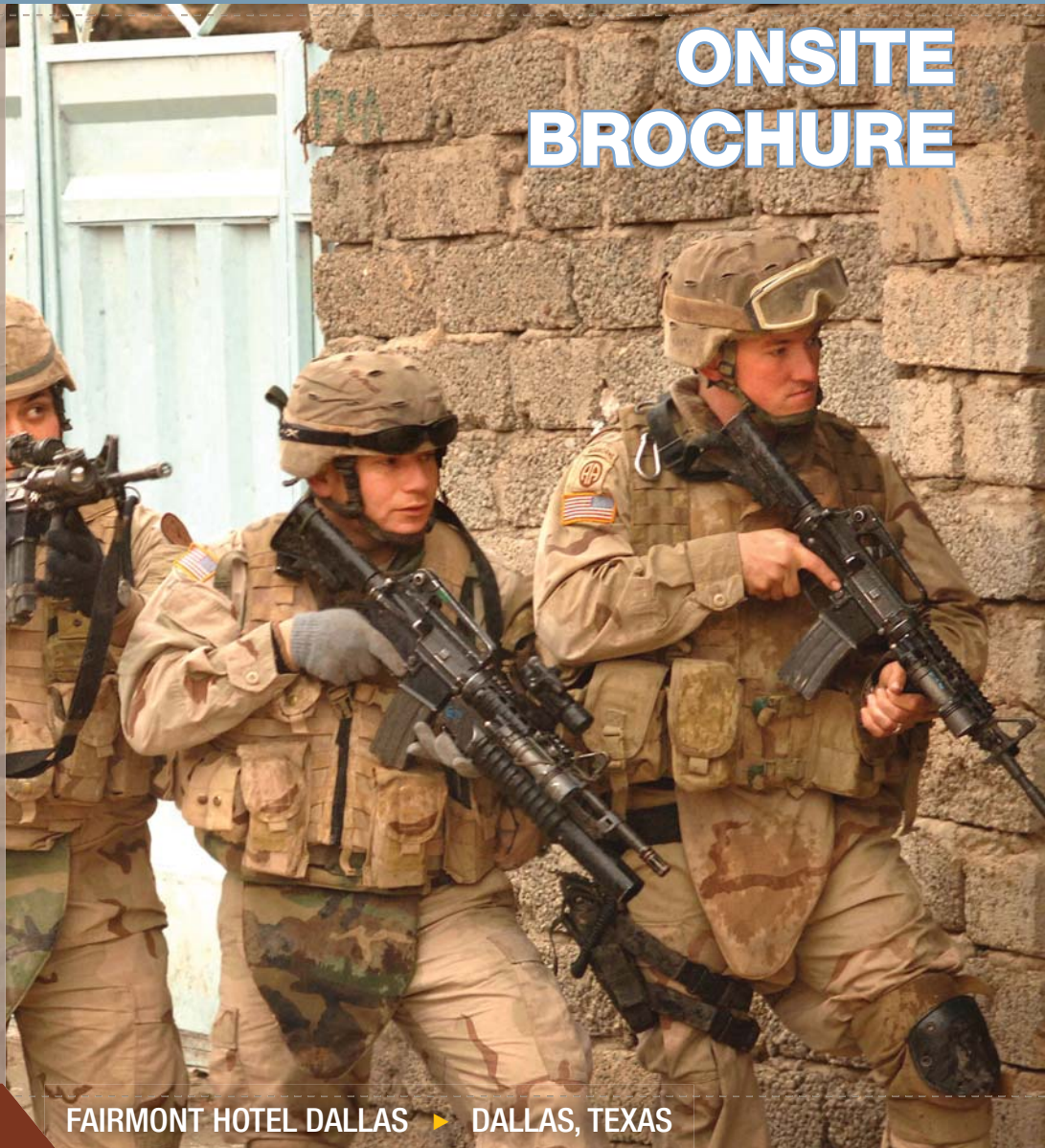
Keynote Speakers include:

- ▶ Hon James R. Ambrose, former Under Secretary of the Army
- ▶ Col Robert Mattes, USAF CTO Director, DUSD, AS&C
- ▶ Mr. Chris Grassano, Project Manager, Maneuver Ammunition Systems

- ▶ The first James R. Ambrose Award, named for former Under Secretary of the Army, will be presented on Tuesday morning, in addition to the George Chinn and Carlos Hathcock Awards

- ▶ The Firing Demonstration will be held on Wednesday evening at Tac Pro Shooting Center

ONSITE BROCHURE



MAY 19-22, 2008

WWW.NDIA.ORG/MEETINGS/8610

FAIRMONT HOTEL DALLAS ▶ DALLAS, TEXAS

EVENT #8610

INTERNATIONAL INFANTRY & JOINT SERVICES SMALL ARMS SYSTEMS SYMPOSIUM, EXHIBITION & FIRING DEMONSTRATION

MAY 19-22, 2008 ▶ DALLAS, TEXAS

OBJECTIVE

Facing terrorist forces from MOUT to the open battlefield, American forces – both military and law enforcement alike – require the best equipment available. Only through the efforts of government and industry working together on a wide range of technology focus areas will the tools necessary to support our soldiers, sailors, airmen and marines now and in the future be realized. These focus areas range from incremental enhancements to fielded legacy small arms systems to enabling technologies, such as fire control improvements, use of robotics and digitization of small arms systems on the battlefield, to name a few. This symposium seeks to bring together government and industry, manufacturers and users to support this objective for the military and law enforcement communities.

AMBROSE AWARD

The Ambrose Award was established and is presented periodically to recognize an Industrial Firm which, in the opinion of the Small Arms Division Executive Board, has made outstanding contributions to the field of small arms systems. An outstanding contribution is characterized by exemplary commitment and contribution to the Armed Forces by delivering superior materiel that meets required operational capabilities and supports a high level of force readiness in the conduct of warfighting activities or homeland defense. Such contributions may be shown through a record of continual demonstration of emerging technologies, development of products and systems, establishment of enhanced production capabilities and integration of innovative weapons systems and supporting products and services required by the DoD and Allied countries. Such contributions would be easily recognized as “excellence” in industry leadership and responsiveness in cases where national security priorities require attention to meet urgent needs in either peace or war time.

This award is named in honor of former Under Secretary of the Army, James R. Ambrose, because of his recognition of the value and contribution of industry in meeting the needs of our national defense. This was made unmistakably clear during his tenure from 1981-1988 as Under Secretary of the Army during the Presidency of Ronald Reagan. He was a major force in the post Vietnam modernization of all small arms weaponry where new and improved versions of the M16, M249 and M9 were purchased in large quantities as a result of industry competitions. Secretary Ambrose was a strong supporter of investing in the Future Rifle Program, later known as the Advanced Combat Rifle (ACR) Program. His emphasis on the need for competition could not be clearer here, as there were as many as six contractor systems in various phases of the program and 4 firms ultimately participated in the 9-month long ACR Field Experiment, the premier rifle evaluation of all time. For his support of small arms development and procurement and his strong emphasis and actions in involving industry at every step of the way, the NDIA Small Arms Division believes it entirely appropriate to name this award in his honor.



ATTIRE

Appropriate dress for this symposium is business casual for civilians and Class B uniform or uniform of the day for military personnel.

ID BADGES

During symposium registration and check-in, each attendee will be issued an identification badge. Badges must be worn at all symposium functions.

PROCEEDINGS

Proceedings will be available on the web through the Defense Technical Information Center (DTIC) one to two weeks after the symposium. You will receive notification via e-mail once the proceedings are available to download/print/view.

CONTACTS

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PREVIOUS RECIPIENTS CHINN AWARD

Thomas E. Cosgrove, 1988
James Ackley, 1989
John S. Wood, Jr., 1990
Roderic A. Spies, 1991
Edward C. Ezell, 1993
Richard E. Brown, 1994
Joseph Unterkofler, 1995
C. Reed Knight, Jr., 1996
Robert A. Trifiletti, 1997
George E. Kontis, 1998
Vernon E. Shisler, 1999
Salvatore A. Fanelli, 2000
L. James Sullivan, 2001
Ernst Mauch, 2002
Phil Baker, 2003
Georges Chauveheid, 2003
Ronnie Barrett, 2004
Richard Audette, 2005
Richard Swan, 2006
William Dittrich, 2007

PREVIOUS RECIPIENTS HATHCOCK AWARD

Charles B. Mawhinney, 2000
William Bartholomew, 2001
Jim Owens, 2000
Larry Vickers, 2003
Steve Holland, 2004
Christopher Mitternight, 2005
Allen Boothby, 2006
American Snipers Organization, 2007

CHINN AWARD

The Chinn Award is presented annually to honor a government or industry individual who, in the opinion of the Small Arms Division Executive Board, has made significant contributions to the field of small arms and/or infantry weapons systems. A significant contribution is considered to be a creative invention, new design or innovative concept in small arms weapons, ammunition or ancillary equipment that provides an advancement in the state-of-the art or capability enhancement that clearly benefits the warfighting or general military capability of the U.S. The Chinn Award may also be conferred as recognition to an individual who has performed sustained superior service in a career field of science, engineering, test and evaluation, manufacturing program management, academic study and research, publishing or maintenance relating to military small arms or infantry weapons.

The Chinn Award is named in honor of Lieutenant Colonel George M. Chinn, USMC, a career Marine who dedicated his life to the study, development and refinement of machine gun mechanisms. LtCol Chinn is remembered for his work as a gun designer and for having compiled a five volume reference work entitled, "The Machine Gun."

HATHCOCK AWARD

The Hathcock Award is presented to recognize an individual who, in the opinion of the Small Arms Division Executive Board, has made significant contributions in operational employment and tactics of small arms weapons systems which have impacted the readiness and capabilities of the U.S. military or law enforcement. A significant contribution is considered to be a superior performance of duties in an operational environment or the development of tactics or training.

The Hathcock Award is named in honor of Gunnery Sergeant Carlos N. Hathcock, II, USMC, a career Marine who dedicated his life to the service of this country in both the military and law enforcement communities. He was honest, tactful, considerate, courageous, quietly proud and determined in all things and all places from the range to the battlefield. "The Gunny" not only distinguished himself in combat as a scout-sniper, but also as a competitive marksman and trainer. In his capacity as a trainer, he not only significantly impacted the current United States Marine Corps Scout-Sniper Program, but also influenced the sniper programs of the other military services and similar law enforcement programs nationwide.



SESSION I CHAIR

COL Karl Scott Flynn, USA,
Chairman, JSSAST

AWARDS PRESENTATION

Join your colleagues to honor the Chinn, Hathcock and Ambrose award winners on Tuesday morning.

Hon James R. Ambrose, former Under Secretary of the Army, will be in attendance to present the first James R. Ambrose Award.

MONDAY, MAY 19, 2008

9:00 AM - 6:30 PM Registration Open – *International Ballroom Foyer*

5:00 PM - 6:30 PM Welcome Reception – *Regency Ballroom*
Exhibit Hall Open

TUESDAY, MAY 20, 2008

7:00 AM - 6:30 PM Registration Open – *International Ballroom Foyer*
Exhibit Hall Open – *Regency Ballroom*

7:00 AM - 7:50 AM Continental Breakfast in Exhibit Hall – *Regency Ballroom*

7:50 AM Welcome and Administrative Announcements – *International Ballroom*
▶ Mr. Sam Campagna, Director, Operations, NDIA
▶ Mr. Brian Berger, Chairman, Small Arms Committee;
Vice President and General Manager, General Dynamics OTS
Simunition Operations

8:00 AM Keynote Address
▶ Hon James R. Ambrose, former Under Secretary of the Army

8:30 AM **Session I: Joint Services Small Arms Synchronization Team (JSSAST)**
▶ COL Robert Radcliffe, USA
▶ CAPT Pat Sullivan, USN
▶ Col Charles Beck, USAF
▶ LtCol Tracy Tafolla, USMC
▶ CAPT Scott Genovese, USN
▶ COL Kevin Noonan, USA, SOCOM
▶ Mr. Kevin Swenson, Joint Non-Lethal Weapons Directorate (JNLWD)

10:00 AM Break in Exhibit Hall – *Regency Ballroom*

10:30 AM Guest Speaker
▶ Mr. Bryan O'Leary, Office of Senator Coburn (R-OK)

11:00 AM Small Arms Section Awards Presentation

Chinn Award
Recipient: Mr. Troy Smith
Presented by: Mr. Jim Schatz

Hathcock Award
Recipient: SSA J. Buford Boone
Presented by: Mr. Sal Fanelli and Mr. Bill Kozacek

Ambrose Award
Recipient: St. Marks Powder
Presented by: Hon James R. Ambrose, Mr. Brian Berger and
Mr. Charles Buxton

- 11:30 AM** Luncheon – *Gold & Parisian*
- 12:20 PM** Hiram Maxim and His Machinegun: A Great Force Harnessed to a Useful Purpose
▶ Dr. Stephen Small, JSSAP, U.S. Army, ARDEC
- 12:40 PM** **PM Soldier Weapons**
▶ Mr. Richard Audette, Deputy, PM Soldier Weapons
▶ LTC Timothy Chyma, USA, PM Individual Weapons
▶ LTC Michael Ascura, USA, PM Crew Served Weapons
- 1:10 PM** **Session II: Small Arms Ammunition and Technology**
- Lethal Limited Range Harbor Security Ammunition
▶ Mr. Stephen McFarlane, U.S. Army, ARDEC
- Effects of Small Caliber Ammunition through Intermediate Barriers
▶ Mr. Jeremy Lucid, U.S. Army, ARDEC
- After Barrier Effectiveness of Small Caliber Ammunition
▶ Mr. Mark Minisi, U.S. Army, ARDEC
- Lightweight Small Caliber Ammunition Update
▶ Mr. George Feghali, General Dynamics OTS, Canada
- Development of a Viable Alternate Accuracy Requirement for 7.62mm Sniper
▶ Mr. Eli Golden, U.S. Army, ARDEC
▶ Mrs. Susan Polinski, U.S. Army, ARDEC
- .50 Caliber Short Range Training Ammunition
▶ Mr. John MacDougall, General Dynamics OTS, Canada
- Environmentally Friendly Primers for Small Caliber Ammunition
▶ Dr. Rao Yalamanchili, U.S. Army, REDCOM ARDEC
- 2:40 PM** **Session III: Advancements in 40mm Munitions (Low and High Velocity); Presentations by 40mm Technology Insertion Team**
- M385A1 Composite Projectile Feasibility Study
▶ Mr. Christopher Summa
- Development of M16A2 Pivoting Coupling
▶ Mr. Matthew Millar
- Electronics and Sensors in 40mm Low Velocity Grenade Ammo
▶ Mr. Jason Wasserman
- Producibility Improvements of 40mm High and Low Velocity Liners
▶ Mr. Adam Sorchini
- Center of Mass Changes During Arming of 40mm Fuzes
▶ Mr. Adam Jacob
- 40mm Day/Night Practice Cartridge for MK13/XM320/M203 Grenade Launchers
▶ Mr. Peter Martin for Mr. Fred Fitzsimmons
▶ Mr. James Grassi
▶ Ms. Melissa Wanner
- 3:30 PM** Break in Exhibit Hall – *Regency Ballroom*
- 5:00 PM - 6:30 PM** Reception in Exhibit Hall – *Regency Ballroom*

SESSION II CHAIR

Mr. James Taylor, ATK, Lake City Army Ammunition Plant (LCAAP)

SESSION III CHAIR

Mr. David Broden, Broden Resource Solutions, LLC



WEDNESDAY, MAY 21, 2008

- 7:00 AM - 1:30 PM Exhibit Hall Open – *Regency Ballroom*
- 7:00 AM - 2:30 PM Registration Open – *International Ballroom Foyer*
- 7:00 AM - 7:45 AM Continental Breakfast in Exhibit Hall – *Regency Ballroom*
- 7:45 AM Welcome and Administrative Announcements – *International Ballroom*
- ▶ Mr. Sam Campagna, Director, Operations, NDIA
 - ▶ Mr. Brian Berger, Chairman, Small Arms Committee; Vice President and General Manager, General Dynamics OTS Simunition Operations
- 7:50 AM Keynote Address
- ▶ Col Robert Mattes, USAF, CTO Director, DUSD, AS&C
- 8:10 AM Session IV: JSSAP**
- 8:10 AM Lightweight Small Arms Technologies Update
- ▶ Ms. Kori Spiegel, U.S. Army, ARDEC
- 8:30 AM The Ultimate Caliber: Myth or Reality?
- ▶ Mr. Shawn Spickert-Fulton, U.S. Army, ARDEC
- 8:50 AM Infantry Studies and Simulations
- ▶ Mr. Alexander Lee, U.S. Army, ARDEC
- 9:10 AM Joint Service Small Arms Program Applied Research Initiatives
- ▶ Mr. John Edwards, U.S. Army, ARDEC
- 9:30 AM JSSAP's Future Small Arms Technology Plan: The Fusion of Science and Science Fiction
- ▶ Mr. Joel Goldman, Chief, JSSAP, U.S. Army, ARDEC
- 9:50 AM Break in Exhibit Hall – *Regency Ballroom*
- 10:20 AM Session V: NATO**
- 10:20 AM NATO Land Capabilities Group (LCG) 1: Dismounted Soldier
- ▶ LTC Mike Bodner, DND Canada, Chairman, NATO LCG 1, Directorate of Land Requirements (DLR)
- 10:30 AM NATO Research and Technology Organization Update
- ▶ Mr. Mark Richter, U.S. Marine Corps Systems Command, Quantico
- 10:45 AM NATO Infantry Weapons Standardization
- ▶ Mr. Per Arvidsson, FMV, Sweden
- 11:00 AM Topical Group 3: Non-Lethal Capabilities Update
- ▶ Ms. Liliana McShea, U.S. Army, ARDEC
- 11:20 AM Session VI: Time for a Change – U.S. “Incremental” Small Arms Fielding: Failures and Solutions**
- ▶ Mr. Jim Schatz, Jr., Time for a Change Team
 - ▶ Dr. Gary Roberts, DDS
- 12:20 PM Luncheon – *Gold & Parisian*
- 1:30 PM Exhibit Hall Closes

SESSION IV CHAIR

Mr. Joel Goldman, Chief, JSSAP,
U.S. Army, ARDEC

SESSION V CHAIR

LTC Mike Bodner, DND Canada,
Chairman, NATO LCG 1,
Directorate of Land Requirements
(DLR)

- 1:30 PM** **Session VII: Industry Ammunition Producers and Technology Companies**
- ▶ Mr. Keith Enlow, ATK Lake City
 - ▶ Mr. Steve Torma, General Dynamics OTS
 - ▶ Mr. Bruce Webb, Nammo USA
 - ▶ Mr. Alan Serven, Remington
 - ▶ Mr. Dave Council, Olin
 - ▶ Mr. John MacDougall, General Dynamics OTS, Canada
 - ▶ Mr. Paul Shipley, Textron-AAI
 - ▶ Mr. Nick Malkovich, Mac Ammo
 - ▶ Mr. Sy Wiley, Polytech
- 2:30 PM** **Board Buses and Depart for Contractor Firing Demonstration – Tac Pro Shooting Center**
- 4:30 PM** **Session VIII: Contractor Firing Demonstration**
- 5:30 PM** **BBQ Dinner Buffet – Tac Pro Shooting Center**
- 7:00 PM** **Buses Start Returning to Fairmont Hotel**
Departures at 7:00 PM, 7:30 PM, 8:00 PM and 8:30 PM

THURSDAY, MAY 22, 2008

- 7:30 AM - 4:00 PM** **Registration Open – International Ballroom Foyer**
- 7:30 AM - 8:20 AM** **Continental Breakfast – International Ballroom Foyer**
- 8:20 AM** **Welcome and Administrative Announcements – International Ballroom**
- ▶ Mr. Sam Campagna, Director, Operations, NDIA
 - ▶ Mr. Brian Berger, Chairman, Small Arms Committee; Vice President and General Manager, General Dynamics OTS Simunition Operations
- 8:30 AM** **Keynote Address**
- ▶ Mr. Chris Grassano, Project Manager, Maneuver Ammunition Systems
- 9:00 AM** **National Small Arms Center Update**
- ▶ Mr. Frank Puzycki, U.S. Army, ARDEC
- 9:30 AM** **Session IX: Testing, Training and Simulation**
- 9:30 AM** **Technical Evaluation, Operational Evaluation, Lessons Learned in Small Arms Procurement**
- ▶ Mr. Joseph Abram, NAVSEA, Crane
- 9:50 AM** **Suppressing Sacred Cows**
- ▶ Mr. Graham Evenden, System Design Evaluation, Ltd.
- 10:10 AM** **NDIA Strategic Initiatives**
- ▶ Mr. David Broden, Chairman, Armaments Division; Broden Resource Solutions, LLC
- 10:30 AM** **Break – International Ballroom Foyer**

SESSION VII CHAIR

Mr. David Broden, Broden Resource Solutions, LLC

SESSION VIII CHAIR

Mr. Sal Fanelli, U.S. Marine Corps Infantry Weapons

SESSION IX CHAIR

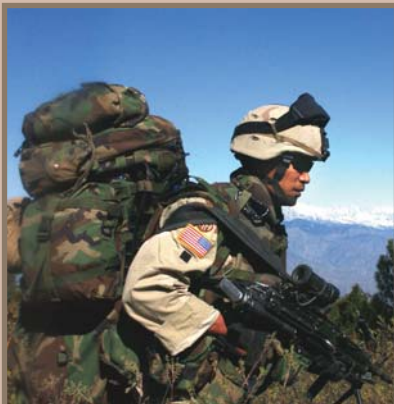
Ms. Liliana McShea, U.S. Army, ARDEC

SESSION X CHAIR

Mr. Kevin Swenson, JNLWD,
Quantico

SESSION XII CHAIR

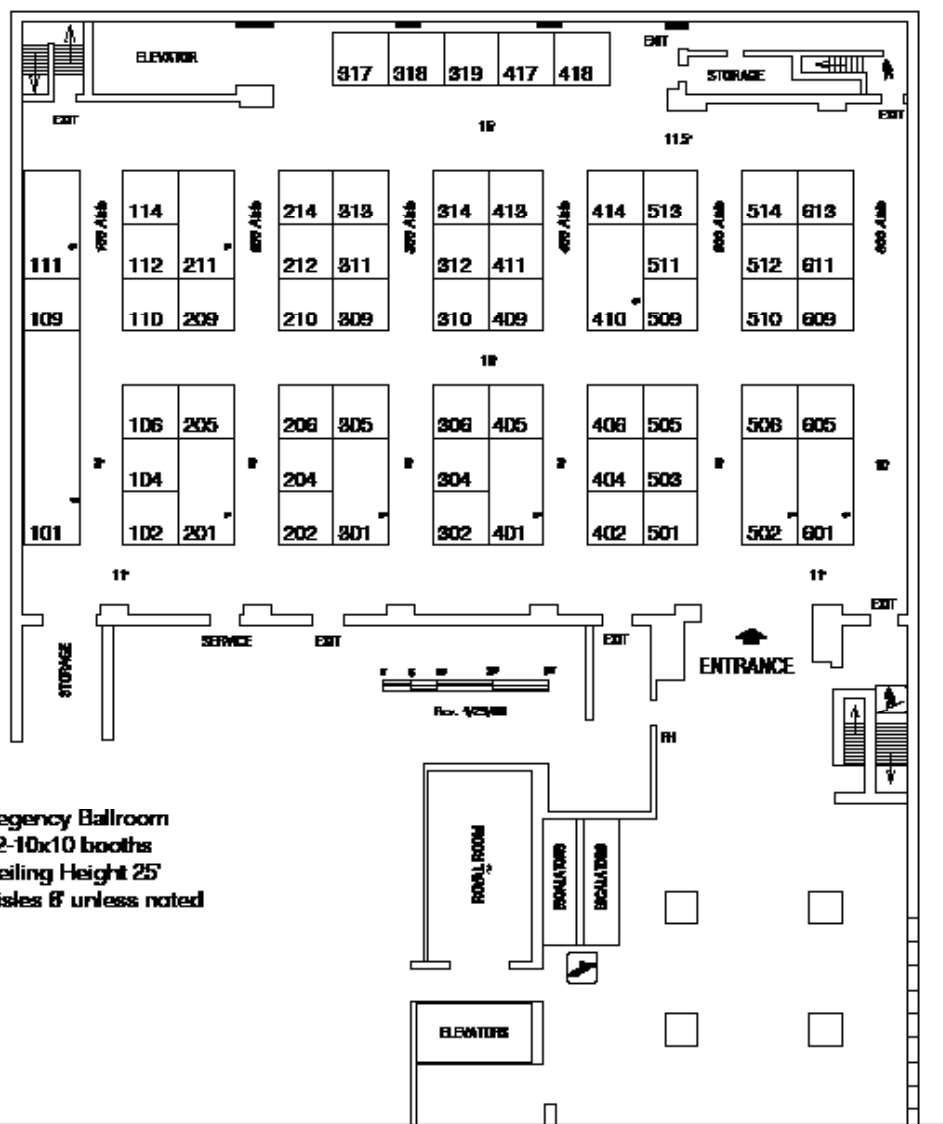
Mr. John Edwards, U.S. Army,
ARDEC



- 10:50 AM** **Session X: Less Lethal Systems and Technology**
- 10:50 AM** Session Overview, JNLWD
- 11:00 AM** Human Effects and Effectiveness, HECOE
- 11:20 AM** Mission Payload Module, NL Weapon System, MCSC
- 11:40 AM** Improved Flash Bang Grenade, SOCOM
- 12:00 PM** Taser International
- 12:20 PM** Beretta/Defense Technologies
- 12:30 PM** Luncheon – *Venitian*
- 1:30 PM** **Session XI: Weapons**
- 1:30 PM** Canadian Proposed Small Arms Demonstration Project
▶ Mr. Gilles Pageau, Directorate Soldier System Program Management 10-4
- 1:50 PM** Advanced Thermal Management of Automatic Rifles
▶ Ms. Laurie Florio, U.S. Army, ARDEC
- 2:30 PM** Break – *International Ballroom Foyer*
- 2:40 PM** Implementation of the New Israeli Light Machine Gun (LMG), “The NEGEV,” as a Fire Power Multiplier in the Current and Future Battlefields: Assessments & Conclusions
▶ LtCol Michael Hartman, IDF Israel, North East Technologies, Ltd.
- 3:00 PM** Experimental Performance Analysis on Recoil Pad for Reducing Firing Shock Force
▶ Dr. Joon-Ho Lee, Agency for Defense Development, Korea
- 3:20 PM** Development of a Non-Lethal 12ga. Shotgun System for Use with the EM113REV
▶ Mr. Kevin Adams, U.S. Army, ARDEC ATF
- 3:40 PM** **Session XII: Fire Control**
- 3:40 PM** Fire Control Units for Thermal Weapon Sights
▶ Mr. Alexander Kuhrt, Helmut Schmidt University, Germany
- 4:00 PM** Aimpoint BR8: A Fire Control System for Small Arms
▶ Mr. Lennart Ljungfelt, Aimpoint, Inc.
- 4:20 PM** Real Time Tire Control Solution for Individual and Crew-Served Direct Firing Infantry Weapons: Algorithm and Implementation
▶ Mr. Alexander Kuhrt, Helmut Schmidt University, Germany
- 4:40 PM** Closing Remarks
Conference Concludes

*Thank you for your participation!
Please return your survey to the NDIA Staff.*

EXHIBIT FLOOR PLAN



Regency Ballroom
72-10x10 booths
Ceiling Height 25'
Aisles 8' unless noted

FIRING DEMONSTRATION COMPANIES

- ▶ Aimpoint, Inc. – *weapon optics*
- ▶ Ashbury International Group, Inc. – *sniper rifle systems*
- ▶ ATK – *ammunition donation*
- ▶ Colt Defense, LLC – *assault rifles*
- ▶ Command Arms – *small arms accessories*
- ▶ Engel Ballistics Research – *specialty and subsonic ammunition*
- ▶ FNH USA, LLC – *infantry weapons*
- ▶ GLOCK – *handguns*
- ▶ Inland Technologies, Inc. – *weapons cleaning system*
- ▶ La Rue Tactical – *portable targeting system*
- ▶ Less-Lethal – *less-lethal devices*
- ▶ Long Mountain Outfitters – *foreign weapons, mounts, accessories*
- ▶ Mac Ammo – *small arms ammunition*
- ▶ Magpul Inds. Corporation – *small arms, assault rifles, accessories*
- ▶ Metal Storm, Inc. – *multi shot weapon systems*
- ▶ MILKOR USA – *M32 Grenade Launcher*
- ▶ NeTech – *infantry assault rifles*
- ▶ NLight/Laser Devices – *optical distractor*
- ▶ Pierce Targets – *portable targeting system*
- ▶ Remington Arms – *sniper rifle systems*
- ▶ Smith & Wesson – *handguns*
- ▶ Tally/Nammo – *shoulder launched ordnance*
- ▶ Trijicon, Inc. – *weapon optics*
- ▶ TSSI – *weapon optics*
- ▶ Wilcox Industries – *night vision equipment*
- ▶ AAI Corporation – 501
- ▶ Aimpoint, Inc. – 106
- ▶ Anniston Army Depot – 202
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- ▶ Ashbury International Group, Inc. – 601
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- ▶ Command Arms Accessories/Fobus – 104
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- ▶ ELCAN Optical Technologies – 410
- ▶ Enidine, Inc. – 305
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- ▶ U.S. Ordnance – 211
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- ▶ VingTech Corp. – 210
- ▶ Wilcox Industries – 411
- ▶ Williams Software Associates Corp. – 417

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SAVE THE DATE

**MAY 18-21, 2009
LAS VEGAS**

**WE LOOK FORWARD
TO SEEING YOU
NEXT YEAR**



ATK

ATK is a premier aerospace and defense company with \$4.1 billion in annual sales, over 17,000 employees and operations in 21 states.

ATK Armament Systems Group is the world's largest manufacturer of small and medium-caliber ammunition. Our military and commercial ammunition product portfolio spans a broad range, from 5.56mm through .50 caliber for use in handguns, shotguns and rifles. We also manufacture 20mm, 25mm and 30mm rounds for air, land and sea platforms, as well as large caliber ammunition for main battle tanks. We are developing enhanced tactical ammunition including air bursting munitions, next-generation energetics and advanced propellants that will increase performance and lethality.

ATK is also the world's top producer of Bushmaster medium-caliber chain gun systems for ground combat, naval and air armament applications. ATK produces the M242 25mm cannon for the Bradley Fighting Vehicle, the MK44 30/40mm cannon selected by the U.S. Marine Corps' for the Expeditionary Fighting Vehicle and the 30mm M230 cannon for the AH-64 Apache and AH-64D Apache Longbow helicopters.

Building on the capabilities of our core ammunition and rocket motor businesses, ATK is developing several breakthrough advanced weapon systems, such as the U.S. Navy's Advanced Anti-Radiation Guided Missile (AARGM) and the U.S. Army's Precision Guidance Kit (PGK), Spider munition and Individual Airburst Weapon System (IAWS). Using state-of-the-art guidance, navigation and control systems, targeting systems, high-energy propellants and advanced warheads, ATK is developing weapons that will fly farther, faster and strike targets with unprecedented precision and lethality at affordable procurement cost.

ATK is the world leader in the design, development and production of solid rocket propulsion systems for space, strategic-missile defense and tactical applications. Our tactical rocket motor portfolio includes propulsion systems for air-to-air, air-to-surface, surface-to-air and surface-to-surface missiles. Additional ATK news and information can be found at www.atk.com.



BULLDOG EQUIPMENT

Bulldog Equipment designs and manufactures custom equipment for the U.S. military. Our solutions are based upon the needs of the soldier. Our goal is to offer products that are mission-critical and to assure the customer that we will provide the finest equipment. All of our equipment is made in the USA and constructed with all-American components.

Our vision at Bulldog Equipment is to ensure the highest standards of safety and reliability while enhancing the soldiers' performance.

For more information, please visit www.bulldogequipment.us.

