International Infantry & Joint Services Small Arms Systems Annual Symposium, Exhibition and Firing Demonstration

“Meeting the Needs of Our Joint Ground Forces in the Fight Against Terrorism and Developing the Tools for Future Combat”

Atlantic City
Convention Center
Atlantic City, NJ
Event # 5610
May 16-19, 2005
Monday, May 16, 2005

5 - 7 PM Registration

6 - 7:30 PM Opening Reception in Exhibit Hall (Hall A)

Tuesday, May 17, 2005

7 AM Registration & Continental Breakfast

7:45 AM Welcome and Administrative Remarks
   Mr. Sam Campagna, Director, Operations, NDIA
   Mr. Brian Berger, Chairman, Small Arms Section, Vice-President, SNC Technologies Corporation
   National Anthem

8 AM Welcome Address
   BG Paul Izzo, USA, PEO Ammunition (Invited)

8:30 AM Keynote Address
   BGen William Cato, USMC, Commanding General, Marine Corps Systems Command

8:50 AM Topical Address
   COL Mark Rider, USA, PMMAS

9:15 AM Lessons Learned - Industries' Response & Acquisitions’ Real Needs
   Moderator:
   Mr. Dave Broden, Broden Resource Solutions & Alliant Techsystems
   Panelists:
   Mr. Kevin Brown, Colt Defense
   Mr. Peter Simon, Heckler & Koch, USA
   Mr. Jean-Louis Vanderstraaten, FN Manufacturing, Inc.
   Ms. Karen Davies, ATK, Ammunition Systems, Lake City
   Mr. Michael Hockenberger, PGM Corporation

10 AM Break in Exhibit Hall

10:30 AM Joint Service Small Arms Synchronization Team (JSSAST) - Panel
   Moderator:
   COL Scott Crizer, USA, Chairman, JSSAST
   Panelists:
   COL Chuck Durr, USA, US Army Representative
   COL Mike Smith, USA, PM Soldier Weapons
   CAPT Rowland Huss, USN, US SOCOM Representative
   LtCol Rick Adams, USMC, US Marine Corps Representative
   Lt Col Doug Miller, USAF, US Air Force Representative
   CDR Rick Button, USCG, US Coast Guard Representative
   Mr. Jerry Gaskill, US Navy Representative
   Mr. Kevin Swenson, Joint Non-Lethal Weapons Directorate

12 Noon Awards Luncheon
   Chinn Award Presentation
   Mr. Richard Audette, Chinn Award Recipient, 2005
   Presented by Mr. Joel Goldman
   Hathcock Award Presentation
   Mr. Christopher P. Mitternight, Hathcock Award Recipient, 2005
   Presented by Mr. Charles Buxton

1:30 - 5 PM Concurrent Sessions
## Conference Agenda

**Tuesday, May 17, 2005 (Continued)**

### Small Arms & International Infantry Dual Concurrent Sessions

#### Session I: Ammunition

**Session Chairman:**
Mr. Dennis Conway, US Army - ARDEC, Picatinny

**1:30 PM** Terminal Effects of New Small Arms Ammunition  
Mr. John MacDougall, SNC Technologies Inc., SIMULATION

**1:50 PM** One Solution for Lightweight Cartridge Cases for Small Arms Ammunition  
Dr. Robert Gagne, Mississippi Polymer Technologies, Inc.

**2:10 PM** Program Manager-Maneuver Ammunition Systems (PA-MAS) Small Caliber Ammunition Program Support at US Army Research Laboratory  
Dr. James F. Newill, US Army Research Laboratory

**2:30 PM** Cost-Reducing Material for 40mm Practice Cartridges  
Mr. James Grassi, US Army - ARDEC, Picatinny

**2:50 PM** Qualification and Fielding of 12 Gauge and 40mm Airburst Warning Munitions for Joint Military Services  
Mr. Dennis W. Stanton, NSWC, Crane

**3:10 PM** BREAK IN EXHIBIT HALL

**3:50 PM** Providing Intelligence Assets Below the Battalion Level  
Mr. Larry D. Cozine, Martin Electronics, Inc.

**4:10 PM** Lethality 101  
Mr. Shawn Spickert-Fulton, US Army - ARDEC

**4:30 PM** New Developments in Non-Toxic/Lead Free and IR/Dim Tracer Ammunition  
Mr. Thomas Mauritzon and Mr. Mart Pella, Nammo Small Caliber Division

**4:50 PM** Lightweight High Performance Gun Barrels  
Mr. Kris Christou, MER Corporation

**5:10 PM** RECEPTION IN EXHIBIT HALL

#### Session II: Mortars

**Session Chairman:**
MAJ Paul Shuler, USA, PM Mortar Weapons & Fire Control

**1:30 PM** Mortars Overview  
MAJ Paul Shuler, USA, PM Mortar Weapons & Fire Control

**1:50 PM** Applying Six Sigma Principles to Implementation of the PGMM Training Concept  
Dr. Tony Pezzano, PM Mortar Systems

**2:10 PM** Mortar Ballistic Computer and Lightweight Hand Held Mortar Ballistic Computer - Key Elements in Linking Mortars to the Joint Fires Network  
Mr. Tom Bradley, PM Mortar Systems

**2:30 PM** Lightweight Dismounted Mortar Weapon STO  
Mr. Jose Santiago, US Army - ARDEC

**2:50 PM** Lightweight Composite Monopack for 120mm Mortar Ammunition  
Mr. Yuen H. Lam, US Army - ARDEC

**3:10 PM** 120mm Mortar Weapons System Accuracy Analysis, a Six Sigma Black Belt Project  
Mr. Efshimios Papayianis, US Army - ARDEC

**4:10 PM** Mortar Weapon Systems Sustainment Improvement Programs  
Mr. S. Mozesen, US Army - ARDEC

**4:30 PM** Enhanced Live Fire Mortar Training Using the 60mm M769 Full Range  
Mr. Jason Surmanek, US Army - ARDEC

**5:10 PM** RECEPTION IN EXHIBIT HALL
7 AM   Registration and Continental Breakfast

7:50 AM  Administrative Remarks

8 AM   Theme Address
Mr. George Solhan, SES, Office of Naval Research

8:30 AM  Soldier Lethality and Wound Ballistics from a Swedish Perspective
Mr. Per Arvidsson, FMV, Sweden

9 AM   Soldier Weapons - Panel
COL Michael Smith, USA, PM Soldier Weapons

10 AM   Break in Exhibit Hall

10:30 AM  The National Center for Small Arms and CSAP - Panel
Panelists:
   Mr. Jean-Louis Vanderstraaton, FN Manufacturing, Inc.
   Mr. Darrold Griffin, Engineering & Management Executives
   Mr. Frank Puzycki, US Army - ARDEC

11:45 AM  NDIA Armament Division Status Overview
Mr. Dave Broden, Chairman, Armaments Division, NDIA

12 - 1:30 PM  NDIA Award Luncheon
Professional Services Award Recipients:
LTC Matthew Clarke, USA
LTC Rob Carpenter, USA
COL Michael Smith, USA, PEO Soldier
Mr. Salvatore Fanelli, Heckler & Koch, Inc.
Mr. Marvin Maule, Aberdeen Test Center
Mr. Jim Schatz, Heckler & Koch, Inc.
Presented by: Mr. Brian Berger, SNC Technologies

Hon Les Brownlee, Gold Medal Award Recipient
Presented by: Lt Gen Lawrence P. Farrell, USAF (Ret), President & CEO, NDIA

Luncheon Address:
“A Bold Initiative: Colonel Miles and The Lee Magazine Rifle in 1879”
Dr. Stephen C. Small, JSSAP

1:30 - 6 PM  Concurrent Sessions
CONFERENCE AGENDA
Wednesday, May 18, 2005 (Continued)

SMALL ARMS & INTERNATIONAL INFANTRY DUAL CONCURRENT SESSIONS

Small Arms Session

Session III:
Joint Service Small Arms Program (JSSAP) Update

Session Chairman:
Mr. Joel M. Goldman, Chief, JSSAP Office, US Army - ARDEC, Picatinny

1:30 PM
Application of the Joint Capabilities Integration and Development System
Ms. Liliana M. McShea, US Army - ARDEC, Picatinny

1:50 PM
MOUT and Non-Lethal Weapons in NATO
Mr. Robert M. Pizzola, US Army - ARDEC, Picatinny

2:10 PM
Component Technology Investigations for Light Machine Gun Applications
Mr. Lucian M. Sadowski, US Army - ARDEC

2:30 PM
Lightweight Weapons and Ammunition - the “Clean Slate” Update
Ms. Kori Spiegel, US Army - ARDEC, JSSAP

Session IV: Soldier System Interoperability

Session Chairman:
Mr. Vernon E. Shisler, US Army - ARDEC, Picatinny

1:50 PM
Marine Expeditionary Rifle Squad
Mr. Dave Hansen, USMC - Quantico

2:10 PM
Soldier System in NATO
Mr. Vernon E. Shisler, US Army - ARDEC, Picatinny

4:40 PM
Integration and Interoperability Issues for Dismounted Soldier System NATO Research Development and Technology Agency
SCI-P130 Exploratory Team Members
Mr. Jason Panak

5:00 PM
Marine Expeditionary Rifle Squad
Mr. Dave Hansen, USMC - Quantico

5:20 PM
Future Force Warrior Lethality Update
Mr. John Edwards, US Army - ARDEC

4:20 PM
Soldier System in NATO
Mr. Vernon E. Shisler, US Army - ARDEC, Picatinny

BREAT IN EXHIBIT HALL

3:10 PM
XM109 Anti-Material Payload Rifle
Mr. Neil E. Lee, US Army - ARDEC

3:40 PM
Development of the KRISS .45 Caliber Machine Pistol: A Novel Approach
Mr. Andrew E. Finn, Gamma/Transformational Defense Industries

4:00 PM
Session V: International Armaments Cooperation & Foreign Comparative Testing

Session Chairman:
COL Michael G. Padgett, USA, International Technology Center

Part I: International Armaments Cooperation

Army’s Initiatives to promote International Armaments Cooperation
COL Michael G. Padgett, USA, International Technology Center

US/German Science and Technology Cooperation
Mr. Holger Mundt, German Head LNO to US

The Challenges of Urban Warfare
COL Yoav Zacks, R&D Attaché, Embassy of Israel

Part II: Foreign Comparative Testing Programs

Mr. Al Trawinski, Army FCT/DAC Program Manager
Swiss Nitrochemie Mortar Propellant and Extruded-impregnated Mortar Ignition Cartridge, and Austrian KAGO Celluloid Mortar Increment Container
Mr. Wayne Miller, US Army - ARDEC

4:40 PM
40 mm Tactical Marker
Ms. Kelly Shuttleworth

40 mm Low Velocity Day/Night Training Cartridges
Mr. Percy Mistry, US Army - ARDEC

5:40 PM
FCT & SOCOM Shoulder Fired Weapons
Mr. Keith Martin, US Army - ARDEC, Picatinny

6:00 PM
ADJOURN FOR THE DAY
Registration and Continental Breakfast

Administrative Remarks

Concurrent Sessions

**SMALL ARMS & INTERNATIONAL INFANTRY DUAL CONCURRENT SESSIONS**

**Session VII:** Fire Control, Sensors and Other Ancillary Devices  
*Session Chairman:*  
Mr. Charles Buxton, NSWC, Crane

- 7:40 AM Fire Control for Individual and Crew Served Weapons  
  *Mr. Robert J. Coleman, Jr., L-3 Communications, Brashear Div.*

- 8:00 AM Sensor Fusion for Small Arms Assessment  
  *Mr. John Edwards, US Army - ARDEC, Picatinny*

- 8:20 AM Weapon Shot Counter  
  *Mr. Darin Ashley, NSWC, Crane*

- 8:40 AM Miniature Day/Night Sight Development  
  *Ms. Barry Gatewood, NSWC*

**Session VIII:** Weapons and Ammunition  
*Session Chairman:*  
Mr. James Zoll, US Army - ARDEC, Picatinny

- Remote Operated Small Arms Mount  
  *Mr. Nigel Wasil, NSWC, Crane*

- 40mm Family of Ammunition Improvement Programs  
  *Mr. Art Pizza, US Army - ARDEC*

- MK93 Integrated 66mm Smoke Obscurant System  
  *Mrs. Dawn M. Hoffs, NSWC, Crane*

- The Oto Melara HITROLE 7,62-12,7 mm Remote Overhead, Light Electrical Turret  
  *Dr. Alessandro Pollastrini, OTO MELARA S.p.A.*

- SWORDS: Lightweight Remote Weapon Systems  
  *Mr. Anthony Sebasto, US Army - ARDEC*

**Session IX:** Individual Weapons  
*Session Chairman:* Mr. George Kontis, P.E., Heckler & Koch, Inc.

- 9:30 AM SOF Combat Assault Rifle  
  *Mr. Troy L. Smith, NSWC, Crane*

- 9:50 AM MPRS - Multi-Purpose Rifle System: A Powerful Force Multiplier in Urban Warfare  
  *Mr. Alon Guttel, Israel Military Industries, Ltd.*

- 10:10 AM The Modular Combat Shotgun  
  *Mr. Ed Schoppman, Remington Arms Company, Inc.*

- 10:30 AM Beretta's PX4  
  *Mr. Phil Degaris, Beretta USA*

- 10:50 AM 40mm Air Bursting Munition System (ABMS) and Super Lightweight Automatic Grenade Launcher (SLWAGL)  
  *Mr. Aw Cheng Hok, Singapore Technologies Kinetics*

**BREAK**

**Session X:** US Air Force and Contractor Firing Demonstration  
*Session Chairman:* Mr. Salvatore Fanelli, Heckler & Koch, Inc.

- 1:30 PM Boxed Lunch - Range 59C, Ft. Dix

- 3:30 PM Buses return to Convention Center