

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

“Enhancing Small Arms Effectiveness in Current and Future Operations”



MAY 18-21, 2009

WWW.NDIA.ORG/MEETINGS/9610

BALLY'S LAS VEGAS HOTEL ► LAS VEGAS, NEVADA

EVENT #9610

OVERVIEW

The International Infantry & Joint Services Small Arms Systems Symposium, Exhibition & Firing Demonstration, “Enhancing Small Arms Effectiveness in Current and Future Operations,” will be held at Bally’s Las Vegas Hotel in Las Vegas, Nevada, May 18-21, 2009.

This symposium is a premier event where the Small Arms communities come together for technical paper presentations, informational speakers and exhibits of the hardware used by current and future defense organizations. A firing demonstration is scheduled for May 20, 2009 at Nellis Air Force Base, Nevada. The symposium is expected to draw government, industry, law enforcement and international participants, in addition to a strong representation from all branches of the military.

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 digitalization 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.

PROMOTIONAL PARTNERS

Increase your company or organization’s exposure at this premier event by becoming a Promotional Partner! With a Promotional Partnership, you will receive your organization’s name on the back cover of the onsite brochure, a 350-word organization description in the onsite brochure, main podium recognition throughout the symposium, signage at all events and a hotlink on the symposium website to your organization’s website. For more information, please contact Sam Campagna, NDIA, at (703) 247-2544 or scampagna@ndia.org.



AWARD INFORMATION

CHINN AWARD

The Chinn Award is presented annually to honor a government or industry individual who, in the opinion of the Small Arms Committee 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 LtCol 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 Committee 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.

AMBROSE INDUSTRY AWARD

The Ambrose Award is established and presented periodically to recognize an Industrial Firm which, in the opinion of the Small Arms Committee 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.

The Industry 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. Under Secretary of the Army 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 Committee believes it entirely appropriate to name this award in his honor.

MONDAY, MAY 18, 2009

12:00 PM - 6:00 PM **CONFERENCE REGISTRATION**

5:00 PM - 6:00 PM **RECEPTION IN EXHIBIT HALL**

TUESDAY, MAY 19, 2009

7:00 AM - 7:55 AM **CONTINENTAL BREAKFAST**

7:00 AM - 6:00 PM **CONFERENCE REGISTRATION**

7:55 AM **WELCOME AND ADMINISTRATIVE REMARKS**

- ▶ Mr. Sam Campagna, *Director, Operations, NDIA*
- ▶ Mr. Brian Berger, *Chairman, Small Arms Committee, Vice President and General Manager, GD-OTS Simunition Operations*

8:10 AM **CONFERENCE KEYNOTE ADDRESS**

- ▶ Mr. Anthony Melita, *OUSD, (Acquisition, Technology, & Logistics) Land Warfare & Munitions*

8:30 AM **CONFERENCE KEYNOTE ADDRESS**

- ▶ Brigadier General Peter N. Fuller, *Program Executive Officer, Program Executive Office (PEO) Soldier*

8:50 AM - 10:10 AM **SESSION I - JOINT SERVICE SMALL ARMS SYNCHRONIZATION TEAM (JSSAST) - 8501**

- ▶ Session Chair: COL Karl Scott Flynn, *Chairman, JSSAST*
- ▶ Panel Members:
 - ▶ LTC Thomas Henthorn, USA
 - ▶ CAPT Pat Sullivan, USN
 - ▶ Col Patrick Lopardi, USAF
 - ▶ Col Andrew Bianca, USMC
 - ▶ CAPT Scott Genovese, USCG
 - ▶ COL Kevin Noonan, SOCOM
 - ▶ COL Douglas Tamilio, PMSW
- ▶ Mr. Kevin Swenson, Joint Non Lethal Weapons Directorate

10:10 AM **BREAK IN EXHIBIT HALL**

10:40 AM **2009 SMALL ARMS SECTION AWARDS**

Chinn Award

Recipient: Mr. Joel Goldman
Presented by: Mr. Brian Berger

Hathcock Award

Recipient: Mr. R.J. Thomas
Presented by: Mr. Jim Kauber and Mr. Gus Taylor

Ambrose Award

Recipient: Otis Technology, Inc.
Presented by: Mr. Brian Berger and Mr. Charles Buxton

NDIA Professional Service Awards

Recipient: Mr. Hays Parks
Presented by: Mr. Richard Audette

NDIA Professional Service Awards

Recipient: Mr. Volker Kurtz
Presented by: Mr. Jim Schatz and Mr. Charles Buxton

- 11:20 AM **PLANS FOR JOINT 2010 GUN & MISSILE AND SMALL ARMS SYSTEMS SYMPOSIUM - Dallas, TX**
▶ Mr. Greg Hill, Director of Marketing, Ordnance Systems Meggitt Defense Systems, Inc.
- 11:40 AM - 1:10 PM **LUNCHEON WITH SPEAKER**
▶ Hall Breechloaders: "A long Step From The Beaten Path - 8287
Dr. Stephen C. Small, *JSSAP/ARDEC*
- 1:10 PM - 1:30 PM **KEYNOTE ADDRESS**
▶ Mr. Bill Sanville, *PM Non-Standard Ammunition*
- 1:30 PM - 2:10 PM **SESSION II - PM MANEUVER AMMUNITION SYSTEMS**
▶ Mr. Chris Grassano, *PM MAS*
▶ Mr. Ben Harris, *Deputy PM Small Caliber*
- 2:10 PM - 5:00 PM **SESSION III - SMALL ARMS AMMUNITION AND TECHNOLOGY**
▶ Session Chair: Mr. James Taylor, *ATK*
- 2:10 PM **FACTORS INFLUENCING DISPERSION OF SMALL CALIBER AMMUNITION - 8356**
▶ Mr. Jeff A. Siewert, *Arrow Tech Assoc., Inc.*
- 2:30 PM **U.S. ARMY SOLDIER WEAPONS AMMUNITION DEVELOPMENT - 8519**
▶ Mr. Robert Zienowicz, *U.S. Army, Picatinny Arsenal*
- 2:50 PM **MAKING BULLETS GLOW IN DARK: INVENTING HYBRID ILLUMINESCENT AMMUNITION - 8455**
▶ Dr. William A. Hollerman, *University of Louisiana at Lafayette*
- 3:10 PM **ENHANCED FORCED ENTRY - THE RHEINMETALL ARGES 40MM X 46 DOOR BREACHING CARTRIDGE - 8512**
▶ Mr. Brian T. Sullivan, *American Rheinmetall Munitions, Inc.*
- 3:30 PM **BREAK IN EXHIBIT HALL**
- 4:00 PM **U.S. NAVY SMALL ARMS AMMUNITION ADVANCEMENTS - 8524**
▶ Mr. Charles Marsh, Mr. Jarod Stoll, Mr. Graham Endris, *NSWC*
▶ Mr. David Leis, *Federal Cartridge Company*
- 4:20 PM **THE M200 HEDP, A NEW GENERATION RIFLE GRENADE - 8527**
▶ Mr. Steve Dart, *Mecar USA*
- 4:40 PM **LIGHTWEIGHT AMMUNITION DESIGN - 8550**
▶ Mr. Vincent Battaglia, *COLTS DEFENSE LLC & BML Tool & Mfg. Corp*
- 5:00 PM - 6:00 PM **RECEPTION IN EXHIBIT HALL**

WEDNESDAY, MAY 20, 2009

- 7:00 AM - 1:30 PM **CONFERENCE REGISTRATION**
- 7:00 AM - 7:45 AM **CONTINENTAL BREAKFAST**
- 7:45 AM **ADMINISTRATIVE REMARKS**
▶ Mr. Sam Campagna, *Director, Operations, NDIA*
▶ Mr. Brian Berger, *Chairman, Small Arms Committee; Vice President and General Manager, GD-OTS Simunition Operations*

**SMALL ARMS CONFERENCE
AGENDA: MAY 20, 2009**

- 7:50 AM **KEYNOTE SPEAKER**
▶ LTC Thomas Henthorn, *US Army*
- 8:10 AM - 9:50 AM **SESSION IV - JSSAP**
▶ Session Chair: Mr. Joel Goldman, *JSSAP, ARDEC*
- 8:10 AM **MODELING AND SIMULATION THROUGHOUT THE SMALL ARMS ACQUISITION LIFE CYCLE - 8525**
▶ Mr. Timothy Fargus, *US Army ARDEC*
- 8:30 AM **MODELING OF GAS FLOW AND HEAT TRANSFER IN SMALL ARMS WEAPON SYSTEMS - 8513**
▶ Dr. Laurie A. Florio, *US Army ARDEC*
- 8:50 AM **ADVANCED SMALL ARMS FIRE CONTROL TECHNOLOGY (ATO) - 8514**
▶ Mr. Terence F. Rice, *US Army ARDEC*
- 9:10 AM **ADVANCED SMALL ARMS LETHAL ARMAMENT TECHNOLOGY (ATO) - 8537**
▶ Mr. Shawn P. Spickert-Fulton, *US Army ARDEC*
- 9:30 AM **LIGHTWEIGHT SMALL ARMS TECHNOLOGIES - 8536**
▶ Mrs. Kori Phillips, *JSSAP, US Army ARDEC*
- 9:50 AM **BREAK IN EXHIBIT HALL**
- 10:20 AM **DIVISION REPORT AND ACTIVITY**
▶ Mr. Dave Broden, Chair, Armaments Division; *Broden Resource Solutions, LLC*
- 10:40 AM - 12:10 PM **SESSION V - SMALL ARMS AS A SUBSYSTEM OF NATO DISMOUNTED SOLDIER SYSTEM OF SYSTEMS PROGRAMMES - 8502**
▶ Session Chair: LTC Mike Bodner, *Chairman, NATO LCG 1, Directorate of Land Requirements (DLR) Department of National Defence, Government of Canada*
- 12:10 PM - 1:40 PM **SESSION VI - SOLDIER WEAPONS - (PANEL)**
▶ Session Chair: COL Douglas Tamilio, *PM Soldier Weapons*
Mr. Richard Audette, *Deputy PM Soldier Weapons*
LTC Michael Ascura, *PM Crew Served Weapons*
TBD, *PM Individual Weapons*
- 1:50 PM **BOARD BUSES FOR FIRING DEMONSTRATION AT NELLIS AIR FORCE BASE**
- 3:00 PM - 5:30 PM **SESSION VII - CONTRACTOR FIRING DEMONSTRATION**
▶ Session Chair: Mr. Sal Fanelli, *US Marine Corps*
- 4:30 PM **FIRST BUS RETURNS TO HOTEL**
- 5:45 PM **LAST BUS RETURNS TO HOTEL**

THURSDAY, MAY 21, 2009

7:00 AM - 4:00 PM

CONFERENCE REGISTRATION

7:00 AM - 7:30 AM

CONTINENTAL BREAKFAST

7:30 AM

CALL TO ORDER AND REMARKS

- ▶ Mr. Sam Campagna, *Director, Operations, NDIA*
- ▶ Mr. Brian Berger, *Chairman, Small Arms Committee; Vice President and General Manager GD-OTS Simunition Operations*

7:40 AM

KEYNOTE SPEAKER

- ▶ Col Richard Eric Burns, *OUSD, Advanced Systems and Concepts, Comparative Testing Office, DoD*

8:00 AM - 9:40 AM

SESSION VIII - FIRE CONTROL SYSTEMS

- ▶ Session Chair: Mr. John Edwards, *ARDEC*

8:00 AM

CREW SERVED WEAPONS ACCESSORIES: INTEGRATED TARGETING AND ILLUMINATION - 8419

- ▶ Mr. Michael H. Jones, *NSWC Crane*

8:20 AM

USING 40MM AGL AS A PRECISION WEAPON AT LONG RANGES - 8473

- ▶ Dr. Daniel Corriveau, *Defence R&D Canada*

8:40 AM

CONTROL AND GUIDANCE OF 40MM SPIN STABILIZED PROJECTILES - 8517

- ▶ Dr. Tomas Svitek, *Stellar Exploration*

9:00 AM

A NEW INTEGRATED DAY AND NIGHT FIRE CONTROL SYSTEM FOR 40MM GRENADE WEAPONS - 8389

- ▶ Mr. Bill Dunnill, *Vectronix, Inc.*

9:20 AM

RAZAR: RAPID ADAPTABLE ZOOM FOR AUTOMATIC RIFLE - 8539

- ▶ Dr. Brett E. Bagwell, *Sandia National Laboratories*

9:40 AM

BREAK IN FOYER

10:10 AM - 11:10 AM

SESSION IX - FIRE CONTROL PANEL - 8556

- ▶ Session Chair: Mr. John Edwards, *ARDEC*

11:10 AM - 11:25 AM

SESSION X - NATIONAL SMALL ARMS CENTER UPDATE - 8479

- ▶ Session Chair: Frank Puzycki, *ARDEC*
- ▶ Mr. Karl Lewis, *Lewis Machine & Tool Company*

11:25 AM - 11:40 AM

LIGHTWEIGHT SMALL CALIBER AMMUNITION - UPDATE

- ▶ Mr George Feghali, *General Dynamics OTS Canada*

11:40 AM - 3:10 PM

SESSION XI - WEAPONS

- ▶ Session Chair: Mr. Jeffrey D. Johnson, *NSWC Crane*

- 11:40 AM **TIME FOR A CHANGE - US "INCREMENTAL" SMALL ARMS FIELDING - STATUS REPORT 2009 - 8272**
▶ Mr. Jim Schatz, *Time4ChangeTeam*
- 12:10 AM **M2 BARRELL EXTENSION IMPROVEMENTS - 8478**
▶ Mr. Jonathan Piazza, *Principal Project Engineer, General Dynamics Armament & Technical Products*
- 12:30 PM - 1:30 PM **LUNCHEON WITH SPEAKER**
▶ The Modernization and Expansion of Ballistic Test Capabilities at the Lake City Army Ammunition Plant
Ms. Stefana Reilly, *ATK*
- 1:30 PM **SHRIKE 5.56 – ADVANCED WEAPONS SYSTEM™ - 8583**
▶ Mr. Geoffrey A. Herring, *President and CEO, Ares Defense Systems, Inc.*
- 1:50 PM **ROTARY WING CREW SERVED WEAPON INTEGRATION - 8423**
▶ Mr. Nigel Wasil, *NSWC Crane*
- 2:10 PM **THE 20MM ANTI-MATERIAL RIFLE: A NEW USE FOR UNUSED AMMUNITION - 8503**
▶ Mr. David P. Armstrong, *NSWC Crane*
- 2:30 PM **USSOCOM WEAPON SHOT COUNTER (WSC): PROVIDING MORE THAN ROUND COUNT - 8469**
▶ Mr. Jason M. Davis, *NSWC Crane*
- 2:50 PM **SOUND SUPPRESSOR SPECIFICATION AND SOUND MEASUREMENT - 8453**
▶ Mr. Owen Cramer, *SAIC/Naval Surface Warfare Center*
- 3:10 PM **SESSION XII - 40MM GRENADE IMPROVEMENTS PANEL**
▶ Session Chair: Mr. Dave Broden, *Broden Resource Solutions, LLC*
▶ Mr. James Grassi, *ARDEC*
▶ Mr. Christopher Summa, *ARDEC*
▶ Mr. Adam Sorchini, *ARDEC*
▶ Mr. Jason Wasserman, *ARDEC*
- 3:50 PM **CLOSING REMARKS**
▶ Mr. Sam Campagna, *Director, Operations, NDIA*
▶ Mr. Brian Berger, *Chairman, Small Arms Committee, Vice President and General Manager, GD-OTS Simunition Operations*

REGISTRATION

Register online by visiting the symposium website at www.ndia.org/meetings/9610. Online registration will close at 5pm EST on May 8, 2009. You must register onsite after this date. You may also fax the registration form to (703) 522-1885 or mail to National Defense Industrial Association, Event #9610, 2111 Wilson Boulevard, Suite 400, Arlington, VA 22201. Payment must be made at the time of registration, and registrations will not be taken over the phone. In order for your name to appear in the onsite attendee roster, you must register for the symposium by May 8, 2009.

	Early	Regular	Late/Onsite
	Before 04/07/09	04/08/09 - 05/08/09	After 05/08/09
Government/ Academia	\$680	\$750	\$825
Industry NDIA Member and Affiliates	\$780	\$860	\$950
Industry non-NDIA Member	\$830	\$915	\$1010

CANCELLATIONS

Cancellations received by April 7, 2009 will receive a full refund. Cancellations received between April 8, 2009 and May 8, 2009 will receive a refund minus a \$75 cancellation fee. Please note that no refunds will be given for cancellations received after May 8, 2009. Substitutions are welcome in lieu of cancellations. Cancellations and substitutions must be made in writing to eagnew@ndia.org

ATTIRE

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

LODGING

A block of rooms has been reserved at Bally's Las Vegas Hotel. To make your reservation, please call the hotel directly. In order to ensure the discounted NDIA rate, you must make your reservations early and ask for the "NDIA Small Arms" room block.

Bally's Las Vegas Hotel
3645 Las Vegas Blvd. S
Las Vegas, NV 89109
Tel: (702) 967-4111

Government Rate: \$126.00* (Single/Double)
Industry Rate: \$149.00 (Single/Double)

**Or the prevailing government per diem. The government per diem rate is available only to active duty or civilian government employees. ID will be required upon check-in. Retired military IDs do not qualify.*

EXHIBITS

NDIA invites you to exhibit at the International Infantry & Joint Services Small Arms Systems Symposium, Exhibition & Firing Demonstration at the Bally's Las Vegas Hotel in Las Vegas, NV. This is an excellent forum for the Small Arms community to display first-class hardware used by current and future defense organizations! Suppliers involved in the areas of training, modeling and simulation technologies, makers of small arms, ammunition and body armor are welcome to exhibit.

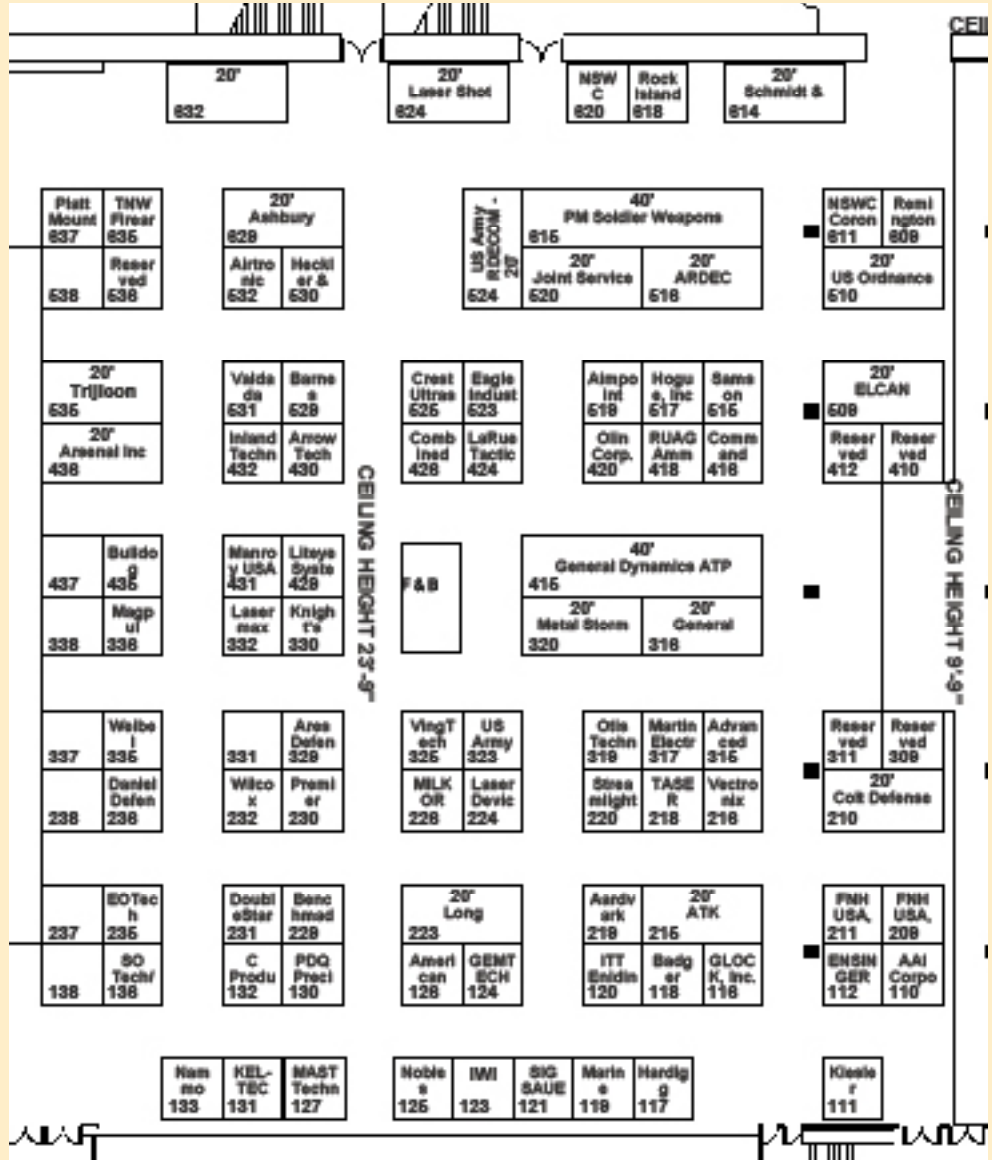
Cost to Exhibit:

NDIA Corporate Members*: \$24.00/sq. ft.

Non-member: \$29.00/sq. ft.

*rate applies to government agencies

For more exhibit information please visit the exhibits webpage at: www.ndia.org/exhibits/9610. For questions, contact Dennis Tharp, Exhibits Manager, at (703)247-2584 or via email at dtharp@ndia.org.



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