

51st Annual

FUZE

CONFERENCE

“Changing Fuze Standards”

May 22-24, 2007

Nashville, TN



CONFERENCE OBJECTIVE

Conference Theme: *Changing Fuze Standards.* The word standard has a myriad of definitions; however, the one that applies to fuzing and fuzing systems is most closely reflected in the following excerpt from Webster's dictionary: "Something established by authority, custom, or general consent as a model or example". All parts of this definition are relevant to the fuzing community. Our community comprises government and industrial constituents that form the dynamic for establishing the general consent for what is customary for example fuzing. MIL-STD-1316 and STANAG 4187 embody the example fuzing system that is used by safety regulatory bodies who are the ultimate authority for the acceptance of a munitions fuzing system. The precise design definition for fuzing systems is not embodied in the relevant standard. The fuzing standards only contain those accepted requirements that make ammunition safe to the user and reliable in its application. The specific implementation of those standards is a cooperative activity between the Government and industrial sections of the fuzing community. As the standards move forward, the regulatory bodies assimilate technologies that have proven useful in achieving both fuzing safety and reliability. Achieving fuzing acceptance in our collective business environment requires frequent interaction among the community members. This conference provides a forum to discuss Changing Fuzing Standards in both the broader sense in community interactions, and through specific fuzing program activities.

Who Should Attend: The NDIA Fuze Conference is primarily a series of technical sessions related to fuzing safety and operations. These sessions cover a spectrum from the outlook of the Services discussing their needs and planned procurements to the detailed design aspects of the latest enabling technologies. The conference appeals to the technical interests of managers, engineers, senior executives, and business development personnel in the fuzing and munitions industry from both the Government and commercial perspective. The conference is also an annual gathering of fuzing professionals and offers a unique opportunity for networking.

TUESDAY, MAY 22, 2007 (Early Registration)

3:00PM On-Site Registration

5:00PM - Opening Reception
6:30PM

WEDNESDAY, MAY 23, 2007 (General Session)

Session I - OPENING REMARKS AND KEYNOTER

7:00AM Registration and Continental Breakfast

8:00AM Administrative Remarks, **Mr. Edward Cooper**, Chairman, NDIA Fuze Division, L-3 Communications - BT Fuze Products and **MG Paul Greenberg, USA (Ret)**, Vice President Emeritus, Operations, NDIA, Executive Director Precision Strike Association

8:10AM Keynote: **MG Roger Nadeau, USA**, Commander, U.S. Army RDECOM

Session II - GENERAL SESSION

Chair: Dr. Barry T. Neyer, PerkinElmer Optoelectronics

8:40AM U.S. Army RDECOM ARDEC Perspective, **Dr. Joseph Lannon**, U.S. Army RDECOM ARDEC

9:00AM Fielding Science and Technology Products...a Warfighter Perspective, **COL Michael J. Smith, USA**, Director, Armament Engineering & Technology Center, US Army ARDEC

9:20AM Navy Overview, **Mr. Randall Cope**, Associate Dept. Head, Energetics at Naval Air Warfare Center, Weapons Division

9:40AM BREAK

10:30AM Air Force S & T Strategy, **Mr. Timothy Tobik**, Air Force Research Laboratory, Eglin

10:50AM Air Force Acquisition Strategy, **Ms. Elizabeth Thom**

11:10AM PEO Missile and Space Technology, **Mr. Jim Jordan**, PEO MS Science & Technology Liason

11:30AM Award Ceremony and 51st Conference Commemoration

11:50 AM - LUNCHEON
1:00 PM

Session IIIA - OPEN SESSION

Chair: **Mr. Scott Pomeroy**, Branch Head, Naval Surface Warfare Center

- 1:00 PM Hard Target Void Sensing Fuze JCTD, **Mr. Sonny Childress**,
- 1:20 PM Piezoelectric-Base Energy Harvesting Power Sources for Munitions Fuzing, **Dr. Jahangir S. Rastegar**, Omnitek Partners, LLC
- 1:40 PM Self-Destruct/Self-Neutralization Design for Fuzing, **Mr. John Yoo**, L-3 BT Fuze Products
- 2:00 PM MLRS Fuzing - Evolving to Meet End User Requirements, **Mr. David M. Grilliot**, L-3 Communications / KDI
- 2:20 PM The M223E1 Pyrotechnic Self Destruct Fuze, **Mr. Paul Kreider**, L-3 BT Fuze Products
- 2:40 PM XM242 Self Destruct Fuze, **Mr. Michael Hiebel**, ATK
- 3:00 PM BREAK
- 3:20 PM Enhanced Portable Inductive Artillery Fuze Setter (EPIAFS) for Excalibur, **Mr. Thomas W. Walker**, ARDEC Adelphi Fuze Division
- 3:40 PM SPACIDO 1D Course - Correction Fuze, **Mr. Benjamin Champion**, T2M
- 4:00 PM Tandem Warheads, A Challenge for Fuze Design, **Mr. Kenneth G. Sundvall**, Saab Bofors Dynamics
- 4:20 PM Universal Dual Safety Training Fuze for Motors, **Mr. Michael De Gregorio**, U.S. Army ARDEC
- 4:40 PM Novel Thermal Batteries for Fuzes and Other Applications, **Dr. Dario R. Dekel**, RAFAEL
- 5:00 PM ADJOURN

Session IIIB - US ONLY SESSION

Chairs: **Mr. David Lawson**, KDI Precision Products, Inc.

- 1:00 PM Multipoint Initiation for an Active Protection System Interceptor, **Mr. Jason P. Marabell**, ARDEC
- 1:20 PM MAFIS Raising the Standard in Hard Target Fuzing, **Mr. Laurie J. Turner**, Thales Missile Electronics, Ltd.
- 1:40 PM Hard Target Defeat Fuzing, **Mr. Michael Johnson**, ATK-Advance Weapons Division
- 2:00 PM Navy MEMS Micro-Detonator Based Safe Arm, **Dr. Daniel L. Jean**, NSWC, Indian Head
- 2:20 PM Prototype Manufacturing System for MEMS-Based Safety and Arming (S&A) Devices, **Mr. Charles H. Robinson**, U.S. Army RDECOM ARDEC Fuze Division
- 2:40 PM MEMS Based Safe and Arming Devices for Low-Spin, Low-G Rockets and Munitions, **Dr. Phillip J. Reiner**, Stanley Associations, Inc.
- 3:00 PM BREAK
- 3:20 PM MEMS Safe and Arm Mechanism, **Mr. Dale Spencer**, Kaman Fuzing
- 3:40 PM MEMS-Based Micro-G-Switch for Launch and Target-Impact Sensing, **Mr. Gabriel L. Smith**, U.S. Army ARDEC
- 4:00 PM Free Flight Inertial Sensor, **Mr. Robert N. Johnson**, Electronics Development Corporation
- 4:20 PM MEMS Based Voltage Multiplier, **Mr. Devin Chamness**, Stanley Associates
- 4:40 PM MEMS Hermetic Packaging, **Mr. Wallace T. Tang**, MicroAssembly Technologies
- 5:00 PM Enabling Technologies for Miniature Firing Systems, **Mr. Curtis Powell**, NNSA Kansas City Plant
- 5:20 PM ADJOURN

5:30 PM - 7:00 PM **HOSTED RECEPTION**

7:00 AM On-site Registration and Continental Breakfast

Session IVA - OPEN SESSION

Chair: **Mr. Telly Manolatos**, Electronics Development Corporation

- 8:00 AM Novel Family of Multi Operational Fuzes for Artillery Munitions, **Mr. Karl B. Kautzsch**, JUNGHANS Feinwerktechnik GmbH & Co. KG
- 8:20 AM Dynamic Measurements of Multi-Layer Target Perforation at Enhanced Velocities, **Mr. Ronald G. Lundgren**, Applied Research Associates
- 8:40 AM Successful Execution of the PIMPF Foreign Comparative Test, **Dr. Helmut F. Muthig**, TDW GmbH
- 9:00 AM One and Two Dimensional Diagnostics for Detonators & Boosters, **Mr. Keith A. Thomas**, Los Alamos National Laboratory
- 9:20 AM Test for Evaluation of the Hazard of Copper Azide, **Mr. Brian Will**, NSWC, Dahlgren
- 9:40 AM Mid-Scale Testing and Simulation of Fuze Terminal Ballistics Environments, **Mr. Craig M. Doolittle**, Applied Research Associates, Inc.
- 10:00 AM BREAK
- 10:20 AM Gas and Moisture Transport Through Non-Hermetic-Glass-to-Metal Bridge-Wire Initiator Seals, **Mr. Karl K. Rink**, University of Idaho
- 10:40 AM Diagnostic Characterization of Slapper Flyer Materials, **Mr. Ralph Hodgins**, Lawrence Livermore National Laboratory
- 11:00 AM Use of Composite Vibration Spectra in MIL-STD-331 Fuze Qualification Programs, **Ms. Julie S. Jennings**, Lockheed Martin Missile and Fire Control
- 11:20 AM Fuze Development Tools, **Mr. Christian Johnsen**, Nammo Raufoss AS
- 11:40 AM Constant Current Testing of a SemiConducting Bridge Initiator, **Mr. Wim C. Prinse**, TNO Defense Security and Safety
- NOON LUNCH

Session IVB - US ONLY SESSION

Chairs: **Mr. Tom Baginski**, Professor, Auburn University

- 8:00 AM Direct Write Explosive Ink Formulations, **Dr. Brian E. Fuchs**, U.S. Army ARDEC
- 8:20 AM EDF-11 Explosive Ink Qualification Testing and Applications, **Mrs. Amy D. Wilson**, U.S. Army RDECOM-ARDEC
- 8:40 AM Experimental Determination of the James Initiation Parameters for LX-16, **Mr. Chadd May**, Lawrence Livermore National Laboratory
- 9:00 AM Piezo Pressure Sensors for Shock Timing Diagnostics of Multi-Point Initiators, **Lt Christopher Q. Martin, USAF**, Air Force Research Lab/Fuzes
- 9:20 AM Division 1.6 Hazard Classification Detonator, **Mr. John W. Yelverton**, AFRL
- 9:40 AM Flight Platforms for Test and Evaluation of Gun Launched Systems, **Mr. Hamish Malin**, Naval Surface Warfare Center, Dahlgren Division
- 10:00 AM BREAK
- 10:20 AM Development of a Laser Detonator, **Mr. Keith A. Thomas**, Los Alamos National Laboratory
- 10:40 AM Recent Improvements in Ceramic Flyback Transformers for IM Initiation and Fuzing Applications, **Mr. George A. Slama**, Midcom, Inc.
- 11:00 AM Systems Integration of Miniature Firing Set Technologies, **Mr. Chuck Treu**, NNSA Kansas City Plant
- 11:20 AM Piezoelectric Energy Scavenging, **Mr. Justin Sweitzer**, Stanley Associates
- 11:40 AM A Temporal Method for Determining Explosive Charge Detonation, **Mr. Ed Wild**, AFRL
- NOON LUNCH

Session VA - OPEN SESSION

Chair: **Mr. Fred Piering**, President, WEACOMM

- 1:00 PM Fuze Safety Standards: Secrets for Success DoD FESWG Chairman, NATO AC326/SubGroup 2 (Initiation Systems Safety Standards) Executive Secretary, US Army Fuze Safety Review Board, **Mr. Homesh Lalbahadur**, Team Leader, U.S. Army ARDEC
- 1:20 PM Requirements for the use of Logic Devices in the Implementation of Safety Features, **Mr. John D. Hughes**, NAWCWD
- 1:40 PM FESWG Qualification Guidelines for Fuzes and Ignition Safety Devices, **Mr. Milton E. Henderson, Jr.**, U.S. Army RDECOM, AMRDEC
- 2:00 PM Changing Safety Requirements, **Mr. Max Cone**, L-3 Communications / KDI
- 2:20 PM Fuze Interface Standard, **Mr. Eric E. Roach**, Lockheed Martin
- 2:40 PM Challenges of Evaluating the Compliance of NEW Technology to Fuze Standards, **Mrs. Christina L. Adair**, Raytheon
- 3:00 PM BREAK
- 3:20 PM Guidance Integrated Fuze, **Mr. Chad D. Finch**, Naval Surface Warfare Center
- 3:40 PM JABS Bomb Drop Data Recorders, **Mr. Casey Birmingham**, NAWCWD
- 4:00 PM 40mm Proximity Fuze - Design for Production, **Mr. Charles S. Lyon**, U.S. Army RDECOM ARDEC
- 4:20 PM Adaption of Existing Fuze Technology to Increase the Capability of the 2.75-inch Rocket System, **Mr. Brian J. Goedert**, NSWC Indian Head
- 4:40 PM M228 Practice Fuze Automated Inspection, **Mr. Matt Dillow**, ATK Tactical Systems Division
- 5:00 PM DSU-33 C/B Proximity Sensor Design to Production Transition, **Mr. Jeff Capaul**, Alliant Techsystems
- 5:20 PM WRAP-UP AND CONFERENCE ADJOURNED **Mr. David Lawson**, KDI Precision Products, Inc.

Session VB - US ONLY SESSION

Chairs: **Mr. Ken Kelly**, Kaman Aerospace Corporation

- 1:00 PM Changing the Standard of Fuze Proximity Sensors, **Mr. J. Kevin Williams**, Mustang Technology Group, LP
- 1:20 PM Paveway IV Height of Burst Sensor, **Mr. Robert P. Hertlein**, L3 KDI Precision Products
- 1:40 PM Comparative Analysis of Fuze Guidance Kits, **Mr. Chris Geswender**, Raytheon
- 2:00 PM Micro-Scale Firetrain Manufacturing Technology Development, **Mr. Mark R. Gelak**, U.S Army RDECOM ARDEC Fuze Division
- 2:20 PM Detonation Shock Transfer Characteristics from Miniature Initiators, **Dr. David E. Lambert**, Air Force Research Laboratory, Munitions Directorate
- 2:40 PM Standardization of Grenade Fuze Components and Requirements, **Mr. Anthony J. Di Giacomo**, U.S. Army ARDEC
- 3:00 PM BREAK
- 3:20 PM Moving Fuze Technology to an ISD, **Ms. Christina L. Adair**, Raytheon
- 3:40 PM MEMS - Compatible Processing of Energetic Materials, **Mr. Alexander S. Tappan**, Sandia National Laboratories, Explosive Projects & Diagnostics Department
- 4:00 PM Neutralization of Unexploded Ordnance (UXO) by Destruction of Pyrotechnic Lead, **Mr. Gary L. Broxton**, Radiation Effects Research Associates
- 4:20 PM Harsh Environment Fuze Technology (HEFTY): A Research for Penetrating Weapons, **Mr. Jason R. Foley**, AFRL Munitions Directorate, Fuzes Branch
- 4:40 PM Real Time Battle Damage Assessment, **Mr. Kenneth J. Williamson**, AFRL/MNMF
- 5:00 PM AMRDEC AMMPGM Fuze Testing, **Mr. Richard R. Kulbacki**, U.S. Army RDECOM AMRDEC
- 5:20 PM WRAP-UP AND CONFERENCE ADJOURNED **Mr. Ed Cooper**, NDIA Fuze Division, L-3 Communications - BT Fuze Products

GENERAL CONFERENCE INFORMATION

HOTEL INFORMATION

A limited block of rooms has been reserved at Gaylord Opryland Nashville Resort & Convention Hotel, 2800 Opryland Drive, Nashville, TN 37214, phone: (615) 889-1000, fax: (615) 871-6942. The industry rate is \$165 single/double occupancy. The government per diem rate is \$94 single/double occupancy. To ensure the discounted NDIA rate, please make your reservations early and ask for the NDIA room block. Rooms will not be held after April 23, 2007 and may sell out before then. Rates are also subject to increase after this date. The government per diem rate is available only to active duty or civilian government employees. ID will be required upon check-in. Retired military or retired government civilians do not qualify for the government rate.

REGISTRATION INFORMATION

Registration Fees

	Early on or before 04/09/07	Regular	Late after 4/23/07
Government/Academia	<input type="checkbox"/> \$425	<input type="checkbox"/> \$470	<input type="checkbox"/> \$520
Industry NDIA member and affiliates (AFEI, NCWG, NTSA, PSA, WID)	<input type="checkbox"/> \$610	<input type="checkbox"/> \$680	<input type="checkbox"/> \$750
Industry non-NDIA member	<input type="checkbox"/> \$660	<input type="checkbox"/> \$730	<input type="checkbox"/> \$800

To register online visit the following link: www.ndia.org/meetings/7560 and follow the instructions. You can also download the registration form from the NDIA website and fax it to (703) 522-1885 or mail to: Event # 7560, National Defense Industrial Association, 2111 Wilson Boulevard, Suite 400, Arlington, VA 22201-3061. Payment must be made at the time of registration. Registrations will not be taken over the phone.

Registration fees for Non-NDIA members include a one year non-refundable NDIA membership of which \$15.00 is for your subscription to National Defense magazine.

FOREIGN PAYMENT

Allied attendees: please note that NDIA does not accept purchase orders from foreign governments or industries and will not invoice them for payment. Fees may be paid by a credit card, checks drawn from U.S. banks or bank transfers only. Please include transfer fees along with payment so that there is not a balance due for your complete registration fee. Payments must be in U.S. dollars.

REFUNDS AND CANCELLATIONS

Registrants who are unable to attend the Fuze Conference must submit a request for refund IN WRITING by fax to NDIA at 703-522-1885 or via email at pedmonson@ndia.org before April 07, 2007 in order to receive a refund minus the cancellation fee of \$100. NO refunds will be issued for cancellations after April 07, 2007; however substitutions are welcome.

U.S. CITIZENSHIP REQUIREMENTS

Some of the sessions at this conference are U.S. ONLY. Tape recorders, cameras and note-taking will be prohibited. Briefcases, day planners, etc. will not be permitted in the auditoriums. Anyone desiring to attend the U.S. ONLY session of this conference must have submitted the enclosed Certificate of Citizenship. Entrance will not be permitted without having been pre-approved by submittal of proof of citizenship to the U.S. Air Force.

Forms must arrive no later than May 17, 2007. Fax to:

ATTN: Ms. Mary Cole, AFRL/MNMF

Phone: (850) 882-2467

Fax: (850) 882-2707

Email: mary.cole2@eglin.af.mil

**DO NOT SEND CERTIFICATES OF CITIZENSHIP TO NDIA AS THEY WILL
NOT BE FORWARDED TO SECURITY AGENT**

GENERAL CONFERENCE INFORMATION

ONSITE BADGES

Each registrant will be issued an identification badge at the on-site registration desk. Please be prepared to show government-issued I.D. when picking up your badge. Badges must be worn at all conference functions.

ATTIRE

Appropriate dress for this symposium is business casual / Class B uniforms for military.

MESSAGES

Messages for conference attendees may be left at phone: phone: (615) 889-1000, faxes for conference attendees should be sent directly to the Gaylord Opryland Hotel at (615) 871-6942 and request that it be taken to the NDIA Registration Desk.

ATTENDEE ROSTER

An attendance roster will be available at the conference registration desk. In order for your name to appear in the roster, you must be registered for this event by April 23, 2007. An updated roster will NOT be printed after the conference.

SPECIAL NEEDS

NDIA supports the Americans with Disabilities Act of 1990. Attendees with special needs should call (703) 522-1820 and refer to Event #7560

INQUIRIES

For more information contact Phyllis Edmonson, NDIA at 703-247-2577 and refer to event #7560.

SPONSORSHIP INFORMATION

Maximize your organization's participation and visibility in this symposium by sponsoring an event. The sponsorships available are as follows:

- Continental Breakfast - \$5,000 (Two opportunities available)
 - o Two complimentary symposium registrations
 - o Placement of your company's logo in the agenda handouts and proceedings
 - o Signage outside the particular event sponsored
 - o Sponsor ribbon on badges

- Coffee and Soda Break - \$4,000 (Four opportunities available)
 - o One complimentary conference registrations
 - o Placement of your company's logo in the agenda handouts and proceedings
 - o Signage outside the particular event sponsored
 - o Sponsor ribbon on badges

- Lunch - \$6,000 (Two opportunities available)
 - o Three complimentary symposium registrations
 - o Opportunity to distribute literature on a table at registration
 - o Placement of your company's logo in the agenda handouts and proceedings
 - o Signage outside the particular event sponsored
 - o Sponsor ribbon on badges

- Reception - \$8,000 (Two opportunities available)
 - o Four complimentary symposium registrations
 - o Opportunity to distribute literature on a table at registration
 - o Placement of your company's logo in the agenda handouts and proceedings
 - o Signage outside the particular event sponsored
 - o Opportunity to give a 10-minute company presentation at the reception
 - o Sponsor ribbon on badges.

HARRY DIAMOND FUZING EXCELLENCE AWARD

FOR

EXCELLENCE IN FUZE ADVANCEMENT

The Harry Diamond Fuzing Excellence Award recognizes the individual who, in the judgment of the NDIA Fuze Committee, has made the greatest overall contribution to the fuze program during their lifetime. The achievements for which this award were considered related to any of the many components that make up this highly diverse, complex, vital commodity, from R&D through demilitarization and disposal.

The second of awards encompasses achievements during the nominee's career and will be presented to the winner at the NDIA Fuze Conference in May 2007. This competition was open to all individuals, regardless of grade or position, in the United States fuze community. All military personnel, government civilians, and contractor employees were eligible. In addition to a cash award and an appropriate plaque, the winner's name has been inscribed on the Harry Diamond Fuzing Excellence Award Trophy that is prominently displayed at NDIA Headquarters.

Certificate of Citizenship

51st Annual Fuze Conference

"50 Years of Supporting Freedom"

May 22 -- 24, 2007, Gaylord Opryland Hotel, Nashville, TN

SEND TO: Ms. Mary Cole, AFRL/MNMF; **Fax:** (850) 882-2707 , Phone (850) 882-2467 ; Email: mary.cole2@eglin.af.mil

NOTICE! Some concurrent sessions of this Conference are restricted to DoD and U.S. DoD Contractors Only who are citizens of the U.S. Provisions of applicable DOD policies do not permit waiving the DOD and U.S. Citizenship requirements for attending these sessions.

Certification for Attendance is to be accomplished by attendee's U.S. Government agency or corporate security office. **CERTIFICATION WILL NOT BE ACCEPTED AT THE DOOR.** Fax completed form with proof of citizenship to arrive by May 17, 2007.

With regard to the meeting identified above, the following information is provided for U.S. Government and industry personnel.

Last Name

First Name

MI

Title (Retired Military, use rank and service)

Company/Organization Represented

Company/Organization Certification Number (Cage Code Number)

Company/Organization Mailing Address

Date of Birth

Place of Birth

Citizenship

Area Code

Office Telephone Number

Signature of Attendee _____

Section II. U.S. Citizenship Certification (To be Completed by Security Office)

(For U.S. Government/U.S. Military/U.S. Industry) I hereby certify that the individual named above has established a proof of U.S. Citizenship as a part of his or her facility security clearance:

Clearance Level

Organization

Date

Signature, Title/Position, and Organization of U.S. Government/DoD Official or Corporate Security Officer.

2007 51st Annual Fuze Conference
Gaylord Opryland Hotel, Nashville, TN
May 22 - 25, 2007 -- Event # 7560

National Defense Industrial Association
 2111 Wilson Boulevard, Suite 400
 Arlington, VA 22201-3061
 (703) 522-1820 • (703) 522-1885 fax
www.ndia.org



- 3** Ways to sign up: 1. Online with a credit card at www.ndia.org Address change needed
 2. By fax with a credit card — Fax: 703-522-1885
 3. By mail with a check or credit card

NDIA Master ID/Membership # _____ Social Security # _____
(if known—hint: on mailing label above your name) *(last 4 digits – optional)*

Prefix _____
(e.g. RADM, COL, Mr., Ms., Dr., etc.)

Name First _____ MI _____ Last _____

Military Affiliation _____ Nickname _____
(e.g. USMC, USA (Ret.) etc.) *(for Meeting Badges)*

Title _____

Organization _____

Street Address _____

Address *(Suite, PO Box, Mail Stop, Building, etc.)* _____

City _____ State _____ Zip _____ Country _____

Phone _____ ext. _____ Fax _____

E-Mail _____

Signature* _____ Date _____

Preferred way to receive information

Conference information address above Alternate *(print address below)* E-mail

Subscriptions address above Alternate *(print address below)*

Alternate Street Address _____

Alternate Address *(Suite, PO Box, Mail Stop, Building, etc.)* _____

City _____ State _____ Zip _____ Country _____

** By your signature above you consent to receive communications sent by or on behalf of NDIA, its Chapters, Divisions and affiliates (NTSA, AFEI, PSA, NCWG, WID) via regular mail, e-mail, telephone, or fax. NDIA, its Chapters, Divisions and affiliates do not sell data to vendors or other companies.*

By completing the following, you help us understand who is attending our meetings.

Primary Occupational Classification. Check ONE.

- A. Defense Business/Industry
- B. R&D/Laboratories
- C. Army
- D. Navy
- E. Air Force
- F. Marine Corps
- G. Coast Guard
- H. DOD/MOD Civilian
- I. Gov't Civilian (Non-DOD/MOD)
- J. Trade/Professional Assn.
- K. Educator/Academia
- L. Professional Services
- M. Non-Defense Business
- N. Other _____

Current Job/Title/Position. Check ONE.

- A. Senior Executive
- B. Executive
- C. Manager
- D. Engineer/Scientist
- E. Professor/Instructor/Librarian
- F. Ambassador/Attaché
- G. Legislator/Legislative Aide
- H. General/Admiral
- I. Colonel/Navy Captain
- J. Lieutenant Colonel/Commander/Major/Lieutenant Commander
- K. Captain/Lieutenant/Ensign
- L. Enlisted Military
- O. Other _____

Year of birth _____
(Optional)

Registration Fees

	Early <small>before 03/17/07</small>	Regular	Late <small>after 4/23/07</small>
Government/Academia ¹	<input type="checkbox"/> \$425	<input type="checkbox"/> \$470	<input type="checkbox"/> \$520
Industry NDIA member and affiliates (AFEI, NCWG, NTSA, PSA, WID)	<input type="checkbox"/> \$610	<input type="checkbox"/> \$680	<input type="checkbox"/> \$750
Industry non-NDIA member ²	<input type="checkbox"/> \$660	<input type="checkbox"/> \$730	<input type="checkbox"/> \$800

No refunds for cancellations received after 04/03/07. **Substitutions Welcome!**

¹Includes a free three-year NDIA membership and *National Defense* magazine for Military and Government employees (first time members only). No do not sign me up for the free government membership.

²Registration fees for non-NDIA (or affiliate) members include a one-year non-refundable NDIA membership—\$15.00 will be applied for your 12 month subscription to *National Defense* magazine.

Payment Options

- Check *(payable to NDIA #7560)*
- Cash
- Government PO/Training Form # _____
- VISA
- MasterCard
- American Express
- Diners Club

If paying by credit card, you may return by fax to (703) 522-1885.

Credit Card Number

Exp. date /

Signature _____ Date _____

Questions? Contact Meeting Planner, Phyllis Edmonson
 (703) 247-2577 email: pedmonson@ndia.org

Mail to: NDIA, Event #7560
 2111 Wilson Boulevard, Suite 400
 Arlington, VA 22201

Fax to: (703) 522-1885



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Serving the Government and Fuze Industry for 51 years

Gaylord Opryland Nashville Resort & Convention Hotel

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