NDIA
Armaments Division
2013
Activity and Status Report

Armament and Munitions Forum

12-13 November 2013

Picatinny Arsenal
Dover, New Jersey

Armament Division
Dave Broden --Chairman
Broden Resource Solutions LLC
Armament and Munitions Forum 2013

• Forum Planning, Arrangements, Participation Appreciation—Thank You

• PEO Organization
  • BG John J McGuiness
  • James Shields
• ARDEC
  • Barbara Machak
  • Tony Sebasto

• Government PEO and PM Speakers and Participants

• Industry Speakers and Participants

• NDIA Vice President Operations Mg Barry Bates USA (Ret.)

• NDIA Staff

• Special Thanks To All Attendees For Commitment and Attention to Objectives of the Armament and Munitions Community
Vision

America’s leading Defense Industry association promoting National Security

Mission

ADVOCATE: Cutting-edge technology and superior weapons, equipment, training, and support for the War-Fighter and First Responder

PROMOTE: A vigorous, responsive, Government - Industry National Security Team

PROVIDE: A forum for exchange of information between Industry and Government on National Security issues

“If I were inviting a colleague to join, I'd say the most compelling reason is the prestige of NDIA membership.” -- NDIA member
Publications

*National DEFENSE Magazine* – monthly coverage of defense developments, trends, and issues

“Top Issues” -- published annually to outline key focus areas for NDIA efforts--- “Value Added During Policy, Budget, and Planning Changes”

NDIA Defense Watch — E-Newsletter for Industry and Government

*Mega Directory* -- published annually in August issue of *National DEFENSE* - provides key information and POC’s for corporate member companies and the DoD Acquisition community.

Enabling NDIA Member Links And Access to:
Current Policy, Budgets, Trends, Issues, Technology, and Systems
Helping to Shape Industry Vision—Building Partnership-Ensuring Readiness

“I skim or read articles (in National DEFENSE Magazine)... because when dealing with clients, I like to be even or have a leg up on the (defense) industry in general.” -- NDIA member
NDIA is Periodically Providing Webinars Focused to Priority Topics of Interest to the NDIA Government and Industry Community

Webinars are Conducted by NDIA In Cooperation with Bloomberg Government and Other Resource Personnel Selected to Support a Topic

Webinars Are Staffed by Subject Matter Experts with Researched Content

Participants may Ask Questions

Webinars are Available at No Cost to the NDIA Members

NDIA Notifies Members of Webinar Schedule as Well as Identifying Webinars on the NDIA Website

Look for Up Coming Webinars

Identify Topics that May be Considered for Webinars
Armament Division

• Committees:
  • Gun, Ammunition, Rockets, and Missile Systems
  • Small Arms Systems
  • Unconventional and Emerging Armaments

• Division/Committee Leadership:
  • Armament Division: Dave Broden -- Chair
    Broden Resource Solutions LLC
  • Gun, Ammunition, Rockets and Missile Systems
    Dave Broden Chair (Acting)
    New Chair to be Selected by 31 December
  • Small Arms Systems
    Brian Berger
    GD-OTS-Canada
  • Unconventional and Emerging Armaments
    Dan Hartman
    Spectra Technologies
Armament and Munitions Forum--Theme 2013

• **Theme:** “Balancing Armament Innovation and Readiness Improvements Within Budget Constraints”

• **Opening Session**
  - Industry/Government Partnerships Ensuring Readiness and Innovation During Budget Uncertainty

• **Small Arms Systems:**
  - Small Arms System Advances in Times of Diminishing Resources

• **Gun, Ammunition, Rockets, and Missile Systems (GARM):**
  - Expanding Warfighter’s Capability Through Technology Investment

• **Unconventional and Emerging Armaments (UEA):**
  - A 360-Degree View of Unconventional And Emerging Armaments: New Capabilities for Affordable Response

Linking Government/Industry Personnel, Systems, and Technology
- Leveraging Commonality--- Enabling Capability
- Ensuring Readiness
Armament and Munitions Forum
Session Chairs

• **Session 1---Armament and Munitions Overview and Vision**
  • Dave Broden

• **Session 2—Small Arms Systems**
  • Brian Berger

• **Session 3---Guns, Ammunition, Rockets and Missile Systems**
  • Dave Broden

• **Session 4---Unconventional and Emerging Armament Systems**
  • Dan Hartman

• **NDIA Staff Support----Special Thanks!!!**
  • Britt Bommelje—Director--Operations
  • Carly Hamm—Meeting Planner
  • Rebecca Danahy—Meeting Planner (For 2014)
Armament and Munition Forum
Topic Thrusts

• **Topics Relevant to Changes and Uncertainty in DOD Priorities and Acquisition**

• **Enable Opportunities for Government---Industry Networking Partnership**

  • DOD Policy Trends and Budget Assessments
  • Program and Acquisition Overview and Plans (PEO’s and PM)
  • Priority Program Status and Comments
  • Technology Thrusts and Priorities—Emerging Capabilities
  • Modeling and Simulation Trends
  • Manufacturing Evolution, Trends and Opportunities
  • Industrial Base Ensured Readiness
1. What is the Vision Forward for Armaments and Munitions?

2. What are the Acquisition Priorities and Plans?
   • Legacy Systems
   • Legacy System Upgrades
   • New Starts

3. Factors Ensuring Industrial Base Readiness?

4. What Will be Characteristics of Upgrades and New Starts?
   • Insertion of Emerging Technologies
   • Increased Precision
   • “Smart” Systems
   • System Integration Subsystems and Technology Enablers
   • New Approaches
   • New Applications (e.g. Robotic, UAS etc.)
   • Affordability

5. How will Evolution/Revolution in Manufacturing Drive Capability?

6. Other Factors?
Armament and Munition Forum
Emerging and Maturing Technology Opportunities

1. Nanotechnology Materials

2. Scalable Munitions

3. Sensors and Related Data Processing

4. Advanced Innovation in Manufacturing—Additive Manufacturing—3-D
   Printing (Components and Tooling)

5. Global Trends Driving Technology (NDIA Assessment—National Defense)
   - Cyber Technology (Security of Information)
   - Google “Like Devices” (e.g. Google Glasses)
   - Mobile Devices Utilized to Drive Capabilities
   - Robotics Revolution (Ground and UAS)
   - Special Operations Forces Integration
   - (DOD Focused Technology vs. Commercial Evolved to DOD??)

6. Increased “Modeling and Simulation” Realism

7. Others
Armament Division

2014 Joint Armaments Conference

• Location: Phoenix Convention Center
  Phoenix, Arizona

• Dates: 12-14 May 2014

• Themes: Definition In Process

• Conference Format: Similar to 2012

• Firing Demonstration: Yes

• Call for Papers:
  • Draft Available
  • Plan to Use 2013 and 2014 Abstracts (Reconfirm 2013 Submittals)

• Special Interest Topics:
  • Attendees/Presenters are Encouraged to Identify Topic of Interest that the Planning Committee Will Consider Including
  • Tutorial Topics Related to Policy and Trends
Armament Division

2014 Conference Format and Plans

• 2014 Joint Armament Conference Planning Objective
  • Ensure Compliance with DOD Guidelines for 2014 (Goal Establish Jointly with NDIA and Others)
  • Provide Attendees Significant “Relevant Value Added” Content
  • Establish a Full Conference Format

• Seek Innovation In Conference Format, Delivery, and Content
  • Use of Communication Technology
  • Conference Session Content and Focus
  • Topics
  • Length of Conference

• Link Joint Armaments with Other Relevant NDIA Divisions or Committees
  • Leverage Technology, Systems and Speakers
  • Enable Travel Efficiencies

• Adapt Format and Content to DOD, Government, and Industry Guidelines and Suggestions (Input Encouraged and Desired)

Summary Vision Forward

• 2013 Armament and Munitions Forum Enables Government and Industry Links to Share the Challenges and Opportunities To Ensure Capability and Industrial Base Readiness

• Program is Focused to Communicate PEO and PM Vision Forward

• Technology Content Confirms Opportunity for Evolving New Capability

• Armament and Munition Trends and Challenges Identify Opportunities

• Innovation and Application of Revolution in Manufacturing Offers Opportunity for Development Efficiencies and Production Affordability

• The 2013 Forum Establishes Links and Information that Can Influence the Capability and Thrusts of Armaments and Munitions Programs Going Forward
Armament and Munition Forum 2013
Take-Away Thoughts

• NDIA **Mission is Focused** to Strength, Responsiveness, Readiness, and Human Resources

• NDIA Strategic Focus Committed to Continuous Improvement------
  • "Value Added", Responsive, Adaptable, and Impacting Issues, and Ensuring Resources and Skilled Human Capital

• **Collaboration and Joint Conference Activity** Offers Efficiency and Expanded Scope and Depth Available to Members

• **Member/Attendee Input/Interests** is Key Conference Planning Focus

• NDIA Conferences, Communications, and **Networking Enables Adaptability** --Ensures Understanding of DOD Focus, Changes, Trends

• **Training and Education** Conference Segment Provided Awareness of Policy and DOD Changes and Focus Activity
Armament Division
Take-Away Thoughts

• **NDIA Vision** Promoting National Security Establishes Leadership Enabling Industry-Government Partnership for Security Strength and Readiness
  - Armament Division and Participating Attendees Enable The Vision

• **Advocate:** Armament Division Demonstrates Continued Leadership In New Technology and Systems—Conference Content Communicates

• **Promote:** Armament Division Links Industry and Government to Common Themes and Topics—Effective In Depth Networking

• **Provide:** Armament Division Conferences, Related Activity, and Networking Strengthens and Expands Understanding, Technology, and Partnership Focused to Warfighter Capability

Armament Division—Three Committees Are Focused to the NDIA Vision/Mission Involving the Community—Communicating—Enabling Readiness
Armament Division
Looking Ahead

• **Thoughts for Consideration:**

• 1. Did 2013 Assist/Enable Armament and Munitions Community?
  • Networking
  • Conference Organization, Structure, Content—What Specifically?
  • NDIA Communications—"National Defense"; “Top Five”; Website, Special Communications

• 2. Did the Forum Content Provide a Vision of Evolving Armament Capability Today and the Future—Is Capability Evolution Communicated Effectively?

• 3. Are Industrial Base Considerations Effectively Communicated and Discussed to Enable Understanding and Action Ensuring Readiness for Legacy, Evolving, and Emerging Systems and Technology?

Armament Division Provides Information Enabling Government/Industry Links – Transitioning Capability and Readiness Vision

*NDIA Armament Division Seeks to Adapt to Armament Community Interests, Challenges, and Activities*
Armament Division
Looking Ahead

- NDIA Leadership is Focused to Ensuring Industrial Base Strength thru Partnership with Government for Capability Superiority and Readiness

- Armament Division---Conference and Activities Linked to Communicate Evolving Requirements, Policy, Technology and Systems

- NDIA Activities Enable DOD Changes and Challenges to Evolve to Opportunities

- Conference/Forum Format and Content will Continue to Evolve to Meet DOD Guidelines and Support Government/Industry Objectives

- Major Factors Ahead:
  - Budget Uncertainty and Downturn
  - Product Requirement Uncertainty
  - Continued Rapid Technology Evolution/Revolution
  - Manufacturing Technology and Approach Advances
  - Industrial Base Challenges, Realignment
  - Human Capital Skills Availability Concern

NDIA Armament Division Provides Networking Forum for Armament and Associated Community Dialogue and Collaboration Building and Ensuring Awareness and Capability