

**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**

**NDIA Webinars—Providing Critical
Policy Information—Aiding Business**

• 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

- **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:**

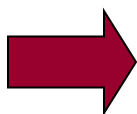
- **Small Arms System Advances in Times of Diminishing Resources**

- **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

Armament and Munition Forum

Challenges and Opportunities for Discussion

- 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

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**

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)

Ensure 2014 Conference Enables “Value Added” Government/Industry Networking and Dialogue Addressing National Defense Readiness

Armament and Munition Forum 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