NDIA
Armament Division
Small Arms Systems Symposium
And
Firing Demonstration

Status and Activity Update 2008
19-22 May 2008

Dave Broden
Armament Division Chair
Enhancing Small Arms Effectiveness in Current and Future Operations

Address and Focus on the Theme

DoD and Homeland Defense Capabilities

• Joint Force operations and capability
• Response to asymmetric threats
• Adapt systems and technology for operational flexibility — Jointness — Responsiveness

• Push technology envelope(s)
• Push integration efficiencies
• Add functional capabilities
• Introduce new systems
• Ensure readiness and capability

“Lessons Learned” — Readiness/Capability — Responsive Force — Jointness — Technology Change

Shape the Future — Enable the Force
2008 Armament Division Overview

• Armament Division **Overview Status**

• Key **Strategic Focus Initiatives** Impacting NDIA—Armament Division

• Highlights of NDIA Status Report and Division Leadership Meeting

• Communicate **NDIA Initiatives**

• Seek Expanded Dialogue and **Input from Memberships**

• Seek Open Dialogue to Identify Suggestions to **Ensure Value to all NDIA Membership**

• Emphasize NDIA Impact Communications

NDIA Management Headquarters and Division Leadership Is Focused to Ensure Value and Impact Meeting Mission Objectives
NDIA Missions

• **Advocate**: Cutting Edge Technologies, Superior Weapons, Equipment, Training, and Support for America’s 4 and First Responders

• **Promote**: Responsive and Vigorous Government-Industry National Security Team.


**Organization Objective**: *Provide “Value Added” Symposiums and Activities Ensuring Mission Objectives*
Armament Division---Division Activity

**Division Goals:**
- Provide a Forum for Industry and Government Partnership Addressing All Types of Armament Systems Ensuring:
  - Assessment of Current Armament Systems
  - Vision and Awareness of Emerging Needs, Technologies and Systems--- *“Lead the Way Ahead”*
  - Enabling Superior Operational Capability Thru Integration of Advanced Technology

**Division Approach to Goals:**
- Maintain and Strengthen Government—Industry *Partnerships*
- View Symposia as *Training and Education* Opportunity
- Focus on *Continuous Improvement* of Symposia
- Implement *Symposia Themes* with Focus and Impact
Armament Division---Division Activity

• **Armament Division Management Approach:**
  – Monthly Division Telecom with NDIA Staff
  
  – **Armament Division Executive Meeting** —Strategies etc.
    - October (with AUSA)
  
  – **Executive Committee Meetings**
    - At Symposia—(March-May)
    - Summer Meeting (June)
    - Fall Meeting (October—with AUSA)
  
  – **Symposium Planning**
    - Gun and Missile Systems—December
    - Small Arms Systems—January
  
  – **Communications:** On Going Regular Email Status Etc. As Required
Armament Division--- Leadership Focus Meeting

- NDIA National Headquarters and Division Leadership Meeting
  - Meeting April 2008
  - Focus on Status and Vision for NDIA
  - Key Topics:
    - NDIA Status Activity Overview
    - *Science, Technology, Engineering, and Mathematics (STEM)—Initiatives and Actions*
    - *Top Issues—Input and Status Re: Member Benefits*
    - Legal/Ethics
    - Logo Style
    - *WebSite Upgrade*
    - *Division Cooperation and Growth*
    - Links to Chapters
Armament Division

- **Key Armament Division Activities:**
  - **Annual Symposia**
    - Small Arms Systems
    - Gun and Missile Systems
  - **Monthly Armament Division Leadership Telecoms**
  - **Strategic Focus Improvement Initiatives**
    - Across Division—Inter-Committee—Address a Issue
    - Within Committees
  - **Combined Division Symposium**—Planned at Three Year Intervals—*Planned for 2010*
  - **Education and Training Initiatives** during Symposia
    - Successful During Gun and Missile 2008—*Acquisition Training*
Objective: Coordinated Focus and Vision for Armament Systems

Armaments Division

Dave Broden

Committees

Small Arms Systems
Brian Berger

Gun And Missiles Brian Tasson

Guns/Ammunition Rockets/Missiles

Future TBD TBD

Responsive Organization – Ensures Relevance
Scope – Area of Interest – Responsibility Definition Clarity
Establishing and Ensuring Strategic Focus

Themes, areas discussed; no specific action
• **Leadership:**
  - **Armament Division Chair:**
    • Dave Broden
    • Broden Resource Solutions LLC
  
  - **Small Arms Systems Chair:**
    • Brian Berger
    • GD-OTS-Canada
  
  - **Gun and Missile Systems Chair:**
    • Brian Tasson (May 2008)
    • ATK –Mission Systems Division
### Committee Scope

**Small Arms Systems**
- Individual weapon(s)
- Crew served weapon(s) (e.g., ≤ 40mm)
- Lightweight Systems
- Ammunition
  - Enhanced/lightweight
  - “Green”
- Full life cycle management
- Supportability
  - Training
  - Logistics
- Target Acquisition/Fire Control System (TA/FCS)
- Remote Stabilized Turret System
- System Integration
- Networked capabilities
- Non lethal
- Homeland Defense systems

### Gun and Missile Systems

#### Guns and Ammunition
- Medium caliber systems
- Tank systems
- Mortar systems
- Artillery systems
- Naval gun systems
- Aircraft/helicopter systems
- Precision systems
- Platform Integration
- Manned/robotic applications
- System integration
- TA/FCS
- Supportability
- Life cycle management
- Stabilized Turret System

#### Missiles and Rockets
- Tactical missiles and rockets
- Shoulder Fired Systems
- Ground launched
- Aircraft/helicopter launched
- Precision Systems
- System Integration
- Manned/robotic applications
- Life cycle management

### Synergism ➔ Commonality

**Common Enabling Technologies, Modeling/Simulation, Man-Tech**

**Links to Other Committees**
Strengthening Capability through People and Technology

Addressing the Theme!

- Joint Capability
- Joint Requirements
- Readiness Capability
- Linking People and Purpose

Ensuring Readiness of People, Technology and Systems

Applying Common Advanced Technologies and Integrated Systems

Enabling an Integrated and Responsive Joint Force Capability
Symposium Attendance Realizing Growth

- Gun and Missile Systems
  Attendance---350-500 in last 5 years
- Small Arms Systems
  Attendance—400-550 in last 5 years

Expanded Participation

Strategic Focus

New Attendees and repeat attendees

Growth of Exhibits

Continued International participation

- Interest and Activity Strategically Focused
  • Armament Division meets Needs of Government and Industry
Executive Committee Discussions/Decisions:

- **Strategic Focus Topic Considerations**
  - Review/Discussion of Topics
  - Decision Addressed Desired Role of Committees
  - *Primary Focus is on Symposia only*
  - Other Topics Addressed on Volunteers Only—Special Case

- **Symposia Improvements and Changes**
  - Implementing Quality Initiatives to Ensure High Quality in All Presentations—Content-Format—Value etc.
  - Seeking Theme Topic Presentations vs. Response to Call for Papers Only

- **Addressing Executive Committee Membership**
  - Uniformed Personnel
  - Industry Mix of Companies etc.--
• Focus on Evolving and Changing DOD Education Requirements:
  – Education Needs are a National Priority
    - **STEM Division Formed and Moving Effectively**
    - NDIA Can/Should Impact
  – Science, Technology, Engineering, Mathematics (STEM) is a Critical National Need
    - Increasing Attention Throughout the Nation
      • Impacts Not Only Defense but all Technology Areas
      • Aerospace/Defense Will be Significantly Impacted
        Babyboomer Retirements
        Low Numbers/Low Interest in Education Pipeline
  – NDIA STEM Initiative Including PLTW Establishes Focus
    - **Action:** NDIA Member Companies—Members-Divisions/Chapters Must Commit to Programs Enabling STEM Education Incentives etc.
• STEM Initiatives:
  – Executive Committee Members Will Encourage Their Companies to Seek Partnerships with Schools via *PLTW etc.*
  – Executive Committee Discussion of How Armament Division can Support STEM Initiatives
    • *PLTW*
    • Other Unique Initiatives
  – Armament Division Annual Report Presented at Symposia Highlight Importance of STEM
    - 2008 Report will Emphasize NDIA Partnership with *PLTW*
  – *PLTW == Project Lead the Way*
Armament Division– Education Initiatives

- **Focus on Evolving and Changing DOD Education Requirements:**
  - Suggested Action Plan:
    - Division/Chapter Commitment to STEM Workforce Division
      - Establish STEM Initiatives In Each Division/Chapter
        - Contact Schools—Link to PLTW
        - Seek Similar Initiatives Where Appropriate
        - Mentoring/Student Days etc. in Member Companies
      - Suggest STEM Workforce Division Establish a Brochure etc.—*Outlining Benefits of STEM Education and Career*
      - Seek to Support “Intern Programs” in Companies and Communities
      - Utilize Retired STEM Career Personnel in Mentoring
      - Address Expanded “Life Long Learning” and “Education Updates” with Babyboomer etc. to Extend Careers and assist in New Students
2008 Top Defense Issues

• **Issue 1:** Sustain The US National Security Workforce Advantage

• **Issue 2:** Ensuring The Integrity and Responsiveness of the Acquisition Process

• **Issue 3:** Maintain a Viable Defense Industrial Base to Ensure Warfighter Readiness

• **Issue 4:** Improving Small Business Access to Defense Contracts

• **Issue 5:** Preparing for Defense Transformation

• **Issue 6:** Ensure International Competitiveness of US Defense Industry

*NDIA Board of Directors Approved Focus*

*NDIA Focus Issues to Congress*
Armament Division—Strategic Issues

• **Influence Process and Activities:**
  – Top Issues and Related Actions
  – National Defense Magazine
  – “What Do Division Members/Executive Committee See as Issues?”
  – Symposia—Way to Communicate and Impact
  – ‘Sponsorship of “Awareness Briefings/Meetings”
  – Special Studies
  – Special “Endorsements—e.g. STEM— PLTW etc.

• **Attention to Education Needs--Opportunities**
  – Chapter—Focus Topics
  – Divisions—Identify Issues—Communicate Impact
  – Links with Other Business Organizations
Armament Division—Strategic Issues

- Participation in Development of Annual Top Issues:
  - Communicating *Results of Actions*
    - Confirms Value—Increases Interest
    - Need *Clarity of Results and Impact* on Industry and Members
  - Division Chairs Must Include Top Issues in Exec. Comm. Agenda
    - *Communicate Top Issue Up and Down*
  - Division Committees Need “Annual Call for Issue Topics”
    - Currently Informal—National Should Require
  - Include a *Top Issues Presentation in Each Symposium*
    - Need to Work Out Who and How

  Coordinated Input from National—TBD?
• **Developing Annual Top Issues:**
  - **Objectives:**
    - Division/Chapter Participation
    - Individual Membership Interest/Value/Benefit
  - **Observation:**
    - “Top Issues”– Are Perceived as a NDIA Leadership Topic
    - Divisions/Chapters/Members—Do not Relate/Connect to Issues-----Emphasis is Focused on Networking
  - **Considerations:**
    - NDIA Communicate “How Divisions/Chapters/Members can **Help Top Issue Action**”— **Need Flow-Up—Flow Down Action**
    - Communicate **Status/Results** of “Top Issue Actions”
    - National Work with Divisions/Chapters to **Include a Top Issue Topic in Meeting/Symposia** (Speakers, Outline of Content etc.)
NDIA Impact and Influence: “Top Five” and Sub/Related Topics

- **On Membership:**
  - National Defense Magazine
  - Symposia and Conferences

- **On Congress:**
  - Top Issues
  - Legislative Breakfasts/Luncheons etc.

- **On DOD:**
  - Policy Statements/Recommendations
  - Special Studies

- **On Individual Services:**
  - Special Studies

- **On Programs—Technology:**
  - Symposia Themes and Topics
  - Highlight or Focus on Key Programs or Technologies
• **Strategic Focus Topics-Actions:**
  • Objective: Implement Actions to Enhance Armament Division Effectiveness and Value

• **Approach:**
  – Executive Committee Leadership Established List of Topics
  – Committee Members Expanded List
  – Executive Committee Established “Top 5”

• **Status and Actions:**
  – Executive Committees *Established Priority to Symposia Only*
    - Participation re: Special Tasks etc. by Volunteers Only, not a Committee Responsibility.
  - *Implementing “Top 5”* and Related Topics—Open to Others
## Strategic Focus Top Five Actions

<table>
<thead>
<tr>
<th>Number</th>
<th>Topic</th>
<th>Gun and Missile Committee</th>
<th>G&amp;M Comments</th>
<th>Small Arms Committee</th>
<th>Small Arms Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Training Element In Symposia</td>
<td>Implemented 2008</td>
<td>Strong Interest Committee participation</td>
<td>Under Discussion – High Interest</td>
<td>Goal to add in 2009</td>
</tr>
<tr>
<td>2</td>
<td>Executive Committee Subcommittees</td>
<td>Evolving—Established</td>
<td>Will add focus and depth</td>
<td>Responsibilities Outlined—</td>
<td>Will add depth and focus</td>
</tr>
<tr>
<td>3</td>
<td>Rigorous Presentation Selection Process</td>
<td>Evolving with some specific criteria</td>
<td>Needs some sort of Metric for selection</td>
<td>Process used-updated to improve</td>
<td>Link with Subcommittee will help.</td>
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<tr>
<td>4</td>
<td>Presentation Review for: Objectives, Conclusion, Impact</td>
<td>Increased Attention and Focus-In Call for Papers etc.</td>
<td>Focus on Presenters to Clarify</td>
<td>Progress but more attention planned-In Call for Papers</td>
<td>Working with Presenters</td>
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<td>5</td>
<td>Intra-Divisional Innovation Teams</td>
<td>Topics and Discussions</td>
<td>Committee Volunteers to Work</td>
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<td>6</td>
<td>Committee Mentor—Protégé</td>
<td>Discussed-No Action</td>
<td>Need But No Current Action</td>
<td>Plan to Implement to Grow Leaders</td>
<td>Interest is Strong</td>
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<tr>
<td>7</td>
<td>Symposia Theme Focus</td>
<td>Focus of 2008 Planning</td>
<td>Planning addressed this effectively</td>
<td>Focus on 2008 Planning</td>
<td>Increased Attention</td>
</tr>
<tr>
<td>8</td>
<td>Industry Presentation Emphasis vs. Gov’t-evolve balance</td>
<td>Message to Industry to Present has been effective</td>
<td>Industry has responded effectively</td>
<td>Balance Improved-Must continue to work</td>
<td>Adding Industry Award and Emphasis of Panels</td>
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• **Coordinated Symposia:**
  
  - **Division Will Implement Coordinated Symposia 2010**
    - Gun and Missile System Committee
    - Small Arms Systems Committee
  
  - **Format:**
    - Common Location
    - Common Week
    - Shared Facility
    - Joint Program Planning Team
    - Concurrent Sessions
      - Each Committee Will Maintain Identity—Separate Meetings
      - Common Sessions Where Beneficial
        - Keynotes—
        - Common/Shared Technologies
        - Training/Education etc.

  Attendance
  - G&MS---350 Annual
  - SAS---450 Annual
  - Combined/Joint Est. 500-600
Collaboration with Sister Divisions:

- Significant Opportunity and Potential For Synergism

- Divisions of Interest (Partial List—Examples)
  - Fuze
  - Manufacturing
  - Homeland Security
  - Combat Vehicles
  - Robotics

- Other NDIA Elements:
  - Precision Strike

- Opportunities Addressed:
  - Coordinate Symposia—Common Location and Time
  - Share Speakers and Program Content

Recommend:
Division Chairs Identify Opportunities for Cooperation And Joint Symposia
NDIA Communications

- **National Defense Magazine**
  - Emphasis on relevant and timely topics
  - Frequently source of media, DoD, and Congressional reference

- **Website**
  - Symposium presentations available — attendee access
  - Complementary information
  - Full list of activity

- **Top Public Policy Issues** — prioritized — addressed to Congress — strengthen the community

- **Key Priority Issues/Topics** — Addressed to Impact Defense Industry

NDIA Messages and Content Has Impact

and

Website Used Extensively as Resource
Objective: International cooperation and integration of symposiums benefiting industry and Department of Defense to encourage partnerships for development, production, and interoperability

Approach: • Coordination of NDIA Armament Division programs with “Symposium at Shrivenham” The Royal Military College of Science

• Common presentations and panel participants is a strong “open door” resource

European Small Arms and Cannon Symposium

August 2008
• Status in Recent Years
  - Strong and Growing Attendance in most Symposiums
  - Integration of New Approaches in Symposiums
    • Continued Reliance on Call For Papers vs. Finding the Right Presentations—Executive Committee Actions
  - Generally Positive Comments from Attendees “BUT”
  - Definite Interest in Integrating Content to “ADD VALUE”

• Looking Ahead
  - Executive Committee Establish and Implement a Strategic Vision
  - Executive Committee Leadership Initiatives vs. Management of what comes along
  - Establishing Continuous Improvement Approach
  - Ensuring Value Added is Demonstrated in All Meetings
  - Responsive to NDIA Strategic Focus Initiatives
Armament Division 2008 Challenges

- Ensuring Focus on NDIA Mission Statement
  - Strategic Focus Initiatives

- Communicate NDIA Messages and Effectiveness
  - “Branding Impact”—Clarify What is NDIA

- Capturing Symposium Attendee and Membership Topics of Interest in Programs and Activities

- Ensure Membership Awareness of Top NDIA Congressional Issues and Impact

- Seek Symposium and Related Activity which Impact Capability and Responsiveness
Strategic Focus Emphasis

• Effective **Communications and Links** Across Government and Industry

• Ensuring **Innovation** in Technology and Systems

• Strengthening the **Industrial Base** —Recognizing the Need

• Building an **Integrated Team** —Industry and Government

• Promoting Communication with **“Value Added”** Content
Leadership Vision

NDIA Armament Division Is:

• A relevant Voice and Forum—Enabling Impact to Issues/Topics

• Meeting NDIA Mission Statements with Strategic Focus

• Responsive to DoD Community and Industry Challenges

• A Forum for DoD/Industry Interaction Discussion of “Lessons Learned” and Needs

• Supporting National Defense through People Resources, Networking, and Symposiums

• Transforming to Ensure Relevance to Changing Military, Geopolitical Environments, Technology, and Industrial Base Resources

The NDIA Community is the Resource of Choice For Excellence in National Defense Topics/Communications
2008 Armament Division Highlights

• Symposium Attendance Strong and Growing

• Symposium Exhibits Effective and Quality Enhanced

• Attention to Strategic Focus Topics Enhances Effectiveness

• Executive Committee activity strengthened an increased

• Government and Industry Partnership in Division leadership demonstrated

Armament Division leadership strength enables strategic focus to address current and future needs
Take-Away Thoughts

- **NDIA Mission** is Focused to Strength, Responsiveness and People
- **NDIA Strategic Focus** Committed to Continuous Improvement—
  - "Value Added", Responsive, and Impacting Issues and People
- Collaboration of Division Activities Offers Expanded Programs and Symposia Efficiency
- Listening to the Symposia Interest of Members is Key to Effective Programs—
- **Training and Education Segment** Address DOD and Industry Changes and Priorities — *PLTW for the Future Workforce*

**NDIA Strategic Focus Ensures:**