

**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

- 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**

- **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.
- **Provide**: Forums for the Exchange of Information between Government and Industry on Matters of National Security.

Organization Objective: *Provide "Value Added" Symposiums and Activities Ensuring Mission Objectives*

- **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 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

- **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
 -

- **Key Armament Division Activities:**
 - **Annual Symposia**
 - **Small Arms Systems**
 - **Gun and Missile Systems**

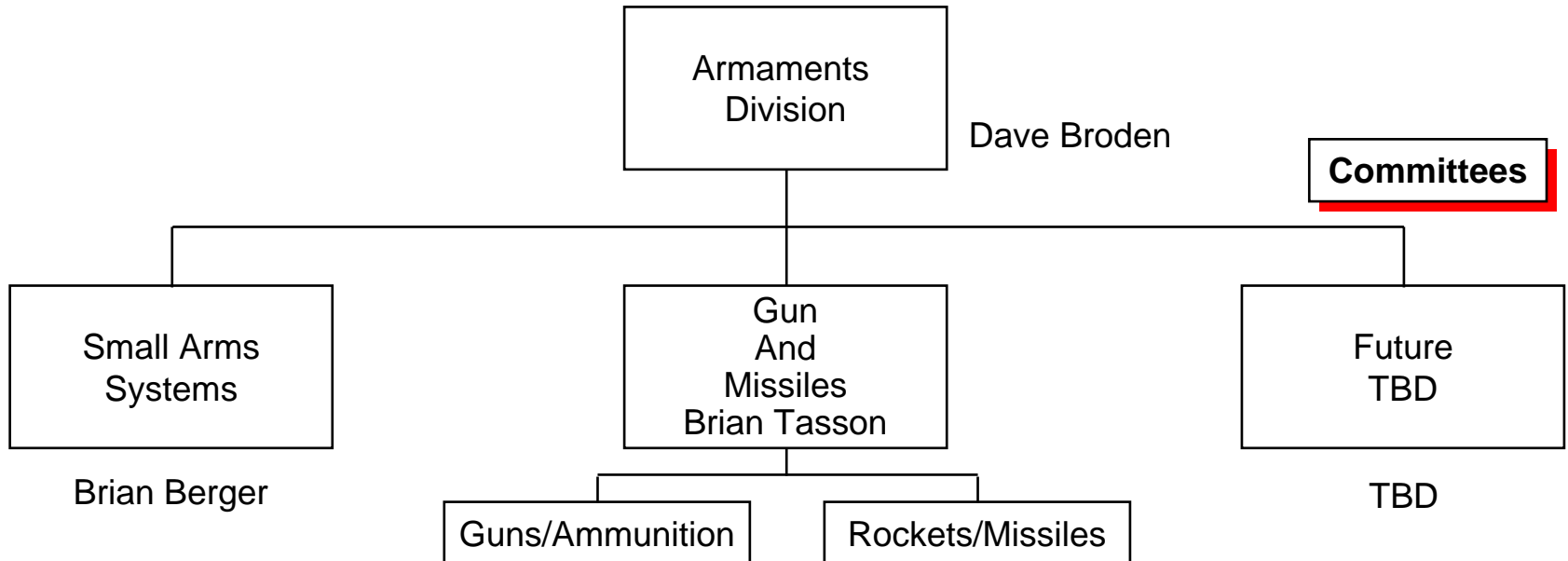
 - **Monthly Armament Division Leadership Telecoms**

 - **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 Symposiums**
 - **Successful During Gun and Missile 2008—Acquisition Training**

Objective: Coordinated Focus and Vision for Armament Systems



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

Gun and Missile Systems

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

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

Guns and Ammunition

Rockets and Missiles

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

- **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**

- **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

- **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***

- **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

- **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

Number	Topic	Gun and Missile Committee	G&M Comments	Small Arms Committee	Small Arms Comments
1	Training Element In Symposia	Implemented 2008	Strong Interest Committee participation	Under Discussion – High Interest	Goal to add in 2009
2	Executive Committee Subcommittees	Evolving— Established	Will add focus and depth	Responsibilities Outlined—	Will add depth and focus
3	Rigorous Presentation Selection Process	Evolving with some specific criteria	Needs some sort of Metric for selection	Process used- updated to improve	Link with Subcommittee will help.
4	Presentation Review for: Objectives, Conclusion, Impact	Increased Attention and Focus-In Call for Papers etc.	Focus on Presenters to Clarify	Progress but more attention planned-In Call for Papers	Working with Presenters
5	Intra-Divisional Innovation Teams	Topics and Discussions	Committee Volunteers to Work	Topics and Discussions	Committee Volunteers to Work

Strategic Focus Top Five Actions

Number	Topic	Gun and Missile Committee	G&M Comments	Small Arms Committee	Small Arms Comments
6	Committee Mentor—Protégé	Discussed- No Action	Need But No Current Action	Plan to Implement to Grow Leaders	Interest is Strong
7	Symposia Theme Focus	Focus of 2008 Planning	Planning addressed this effectively	Focus on 2008 Planning	Increased Attention
8	Industry Presentation Emphasis vs. Gov't- evolve balance	Message to Industry to Present has been effective	Industry has responded effectively	Balance Improved- Must continue to work	Adding Industry Award and Emphasis of Panels
9					
10					

- **Coordinated Symposia:**

**2010
Symposium**

- **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**

<u>Attendance</u>
G&MS---350 Annual
SAS---450 Annual
Combined/Joint Est. 500-600

**Keynotes—
Common/Shared Technologies
Training/Education etc.**

- **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

- **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

- 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**

- 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

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***

- **Symposium Attendance Strong and Growing**
- **Symposium Exhibits Effective and Quality Enhanced**
- **Attention to Strategic Focus Topics Enhances Effectiveness**
- **Executive Committee activity strengthened and increased**
- **Government and Industry Partnership in Division leadership demonstrated**

Armament Division leadership strength enables strategic focus to address current and future needs

- 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:
“Value Added” Activity with Impact
Enabling
National Defense Objectives
Through
Systems, Technology and People