

Report to Small Arms Committee

National Defense Industrial Association (NDIA)

Armament Division

2002 Division Status

14 May 2002

Small Arms Committee

Value Added Has Been Demonstrated

Leadership to Strengthen the Small Arms Community

Challenge: Adapting Technology, Systems for Transformation

Ensuring Readiness . . . Advancing Superior Capability

Superior Technology and Systems — Readiness — Affordability

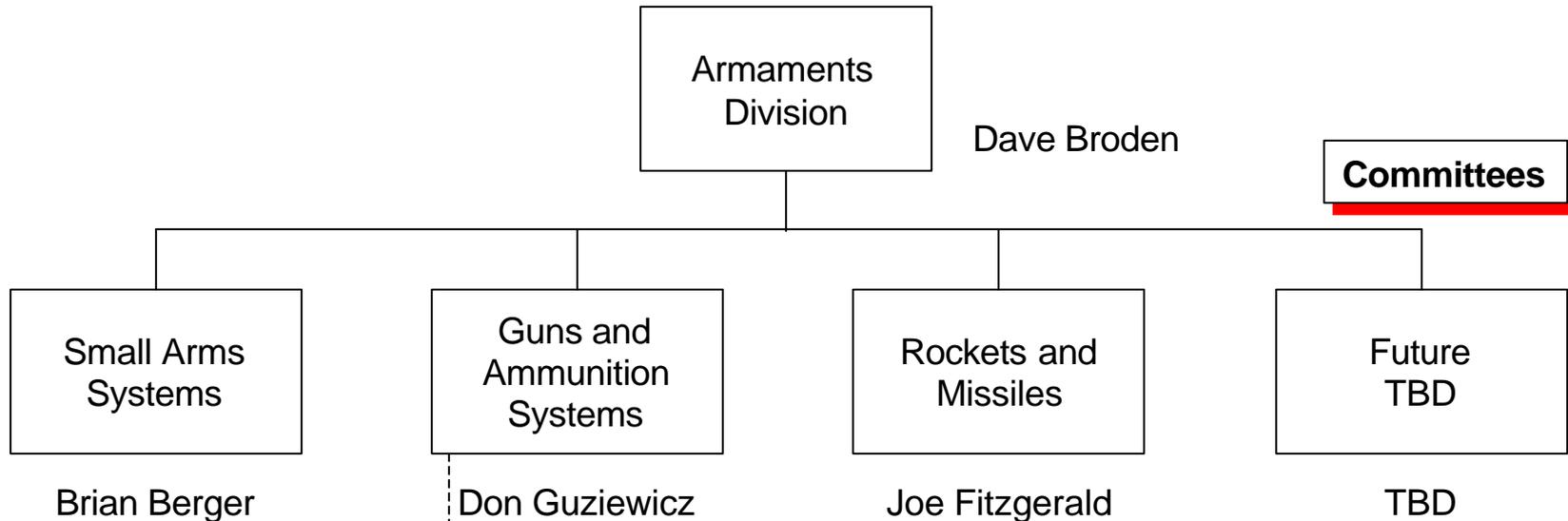
Provide organizational focus to armament systems used by U.S. and allied countries and to address other topics relevant to armament systems

- “Lessons Learned”
- Deficiencies/needs
- Requirements pull/technology push
- Development
- Deployment
- Operations
- International cooperation
- Acquisition
- Affordability
- Supportability

Life Cycle Focus

Acquisition Management

Objective: Coordinated Focus and Vision for Armament Systems



Themes, areas discussed; no specific action

**Scope – Area of Interest – Responsibility
Definition Clarity**

Seeking Cooperation with Related Sections

Small Arms Systems

- Individual weapon(s)
- Crew served weapon(s)
(e.g., $\leq 40\text{mm}$)
- Full life cycle
- Supportability
 - Training
 - Logistics
- System integration
- Target Acquisition/Fire Control System (TA/FCS)

Guns and Ammunition

- Medium caliber systems
- Tank systems
- Mortar systems
- Artillery
- Naval gun systems
- Aircraft/helicopter systems
- Platform integration
- System integration
- TA/FCS
- Supportability
- Life cycle

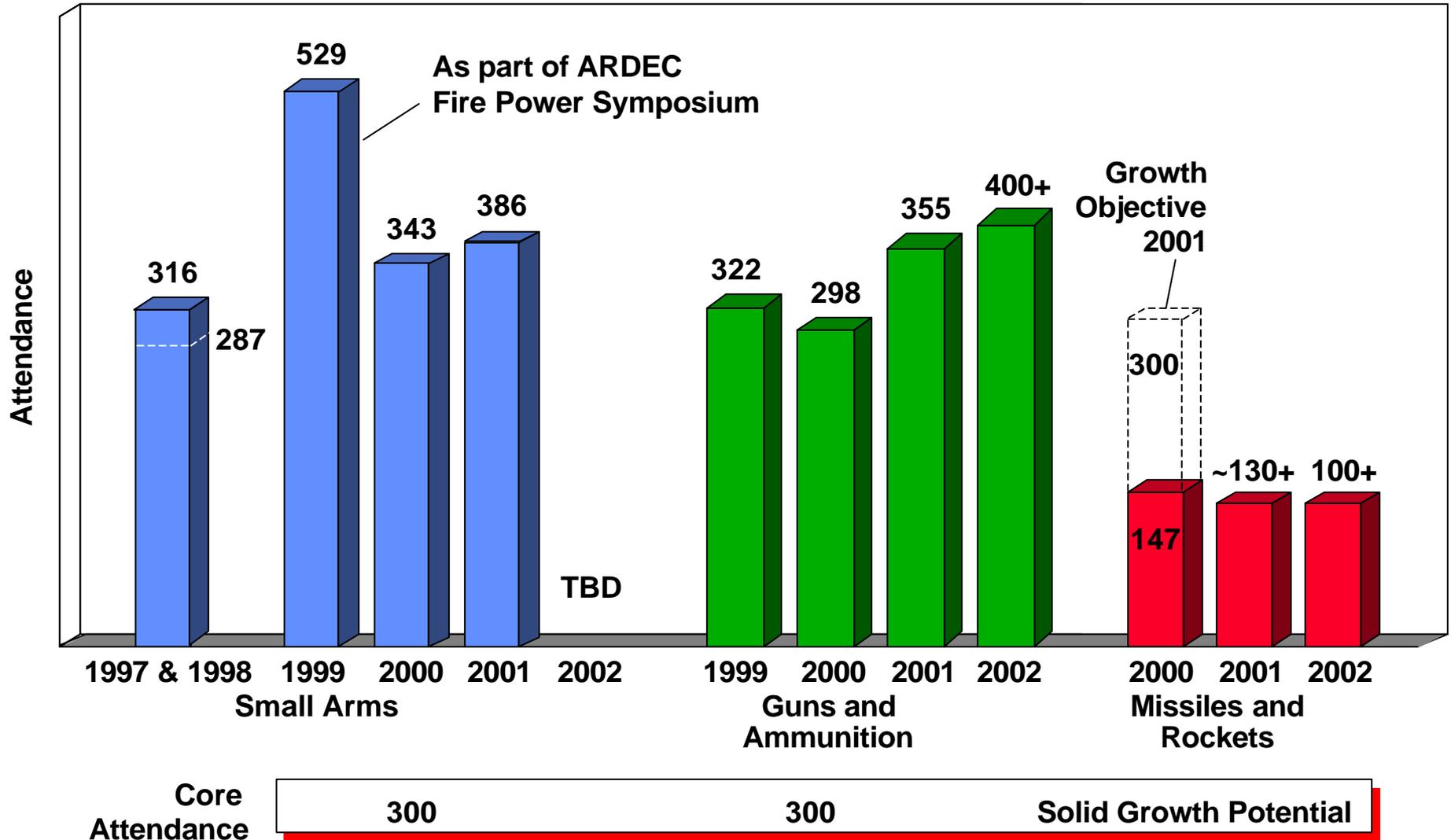
Missiles and Rockets

- Tactical missiles and rockets
- Shoulder fired systems
- Ground launched
- Aircraft/helicopter launched
- System integration
- Life cycle

Common Enabling Technologies, Modeling/Simulation, Man-Tech

Links to Other Committees

Armament Division Attendance Summary



Forum of Communications

Technology

Systems

Operations

Demonstrations

Exhibits

Lessons Learned

Requirements/Definitions

Technology

- Requirements Driven
- Technology Driven

System Development/Application

Producibility

System Engineering – Assessments – Measuring Performance

Readiness – Superior Capability

Activities Supporting Small Arms Community

- Strong symposium programs
- Exhibits supporting readiness and innovation
- Continuing effective use of demonstrations
- Committee of Small Arms Producers (CSAP) leadership
 - Assess issues and approaches to maintain/strengthen small arms readiness . . . industry base . . . DoD activity
 - “Small Arms Center of Excellence”

National Small Arms Center

- Study, plans, and recommendations in process
- Similar to Warheads and Energetic Technology Center (WETC)
- Go-ahead October 2002 if approved — comments welcomed

Maintaining Legacy Readiness and Achieving the Objective Force Vision

Future Combat System

Objective Force Warrior

Applying Technology, Integration, Products to Multiple Needs

Synergistic Themes

Small Arms Systems

“21st Century Military Operations and Technology”

Guns and Ammunition

“Innovation for Rapid Deployment and Fielding”

Missiles and Rockets

“Applying Technology for Future Warfare”

Implementing the Themes

Responsive to Transformation

Objective Force

FCS
OFW

Linking Our Resources Achieves the Goal

Small Arms Committee = Supporting the Vision

Legacy Systems

- Readiness
- Product improvement
- Lightweight capability

Objective Family

- OICW
- OCSW
- Development/qualification/FUE

Future Technology/Systems

- Light Fighter Lethality (LFL)
- Technology enhancement
- Netted fires

Objective Force

- Definition
- Development
- Introduction
- Spiral development

Challenge

- Defining small arms systems for Objective Force
- Networked firepower
- Apply advanced situation awareness

Linking – Government and Industry – Achieving Objectives

Small Arms Committee Challenges

- Understanding and responding to vision
- Addressing **“Soldier as a System”** including lethal elements
- “Outside the box” approach to systems
- Innovation → operations, integration, technology
- Effective technology insertion with “value added”
- Applying spiral development
- Ruggedness
- Affordability
- Knowledge transition and mentoring

**Linking and Integrating with Objective Force
Strengthened by Linking with Other NDIA Elements**

Ensuring Capability Readiness Today and in the Future

Innovation

Responsiveness

Openness

Partnerships Industry ® Development ® User

- Responsive to user operational concepts
- Readiness today and future
- Technology assessment and evolution
- Management and engineering processes
- High quality
- Affordability
- Knowledge transition mentoring

Armament Division Strategic Plan 2002

“Challenges”



- Involve the user community effectively
 - Presentations and committee membership
- Focused attention to DoD initiatives to ensure responsiveness/awareness
 - Transformation
 - Objective Force
 - Future Combat System (FCS)
 - Objective Force Warrior (OFW)
- Relevant topics and executing Value Added STUDY with “meaty” recommendations
- Synergistic dialogue with other NDIA divisions/sections
- Linking common benefits sections to chapters

Response to Challenge → Response to DoD Initiatives
→ Ensure Value Added
→ Establish Partnerships

- Open “outside the box” solutions which can be “realized”

No Luddites!

- User linkage → adapt systems to evolving threats/scenarios and operational needs
- Leveraging synergism
 - Technology
 - System integration
 - Netted systems benefits
- Spiral development benefits

• Answer “What is Armaments Division Role in Homeland Defense?”

- Committee participation and leadership
- NDIA linkage: Divisions — Committees — Chapters

- 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

European Small Arms and Cannon Symposium

27–29 August 2002

Small Arms System

- Operational synergism
- Technology commonality
- Convergence in Systems Integration
- Network applications

Guns and Ammunition

Missiles and Rockets

Complimentary Technology, Integration, and Operations

Leveraging Adds Value Throughout Life Cycle

NDIA Focus

Addressing Issues Critical to Small Arms Committee

Armament Division Focus

- Strong interest and participation
- Linked to key DOD and service strategies
- Effective use of exhibits and firing demonstration
- Transitioning membership and participation profile

Establishing a Vision for 21st Century Partnership

Applying System Synergism to Meet Transformation Goals

- Funding America's defense
- Protecting the Homeland
- Ensuring the health of the defense industrial base
- Improving training and logistics support
- Reforming international trade processes and cultivating foreign relationships
- Focusing on human capital
- Establishing and maintaining information dominance

Issues are Relevant to Small Arms Committee

Armament Division Section Attendance

Guns and Ammunition

- Stable interest
- Balanced community
- Evolving Section scope to expand participation
- Integrating Munitions Division

