



# DSB Newsletter



March 2008

Dr. William Schneider, Jr., Chairman

Mr. Vince Vitto, Vice Chairman

Mr. Brian Hughes, Executive Director

## *Chairman's Corner*

Welcome to the first Quarterly meeting of 2008.

We note with sadness the passing of a long-time friend. Dr. Josh Lederburg, a Board member for many years will be missed by us all. Our condolences go to his family.

There continues to be enthusiastic interest in the exceptional work the DSB produces. In the month of February we published four reports: *Energy Strategy*, *Directed Energy*, the *Report on the Unauthorized Movement of Nuclear Weapons* and the *Strategic Communication* panel report of the summer study. All together, these four reports were downloaded approximately 95,000 times off the DSB website. *Directed Energy* even appeared in a recent CBS News *60 Minutes* story.

The New Year promises to be busy. I encourage your participation in as many DSB projects as your busy calendars allow.

***Dr. William Schneider***

### ***DSB MEETING DATES FOR 2008***

- 21 - 22 May 2008 – Spring Quarterly
- 4 -15 August 2008 – Summer Study
- 22 - 23 October 2008 – Fall Quarterly

## Membership

The Board continues to actively solicit suggestions for highly qualified scientific and technical candidate members, with special emphasis on women and minority candidates. Prior Task Force participation offers an individual, OSD, and the Board an opportunity to determine a person's interest and suitability to Board activities and is a desirable prerequisite to membership on the Board.

## Task Force Status

- **Defense Industrial Structure for Transformation** (chair: Dr. Jacques Gansler) As the DoD transforms to meet the new challenges of today's national security environment, the DoD's industrial base will be impacted. This task force will determine the degree of change likely in the industrial base, what plans and policies the Department should develop in response to globalization and the impact of the possible reduction in competition among industrial base competitors. Sponsored by: USD(AT&L), DUSD(IP). **The report is in draft.** (Maj Lominac)
- **DoD Energy Strategy** (co-chairs: Dr. Jim Schlesinger and GEN Mike Carns (USAF, Ret.)) The task force will re-examine DoD's energy usage practices and will recommend technologies, strategies and policy to achieve an assured energy supply for a broad range of military functions while simultaneously improving energy reliability and security. Sponsored by: USD(AT&L), DDR&E. **The report has been released.** (Maj Lominac)
- **Nuclear Deterrence Skills** (chair: ADM Henry Chiles (USN, Ret.)) This task force will assess all aspects of nuclear deterrence skills. The study will examine military, federal and contractor attrition at DoD and DoE in these critical skills, assess the progress DoE has made since the Chile Commission report and recommend methods and strategies to maintain a right-sized and experienced work force to ensure viability of the US nuclear deterrent through 2020. Sponsored by: USD(AT&L), ATSD(NCB). **This task force is in progress.** (CDR Phillips)
- **Nuclear Weapons Effects Enterprise** (co-chairs: Dr. Mim John and Dr. Joe Braddock) Joint DSB/TRAC task force to define a national enterprise for nuclear weapons effects modeling, simulation, test and evaluation capabilities. Need for an enterprise solution has become important in light of the possibility of key simulator facilities to close due to lack of paying users. The task force will assess current and planned capabilities and recommend an enterprise to support DoD/DoE requirements in the future. Sponsored by: USD(AT&L), ATSD(NCB). **This report is in draft.** (CDR Phillips)
- **2007 Summer Study: Challenges to Military Operations in Support of National Interests** (co-chairs: Dr. Craig Fields and Mr. Rich Haver) The summer study will examine what a future peer challenger will look like and how will they challenge our military operations. It will also look into if we are evolving our capabilities to defeat a peer, near-peer or non-state actor. Sponsored by: USD(AT&L), USD(P). **The summer study is in draft, the executive summary is in security review.** (CDR Phillips)
- **Time Critical Conventional Strike from Strategic Standoff** (Dr. Ronald Kerber and Mr. Bob Stein) The task force will examine a set of strategic conventional attack accomplishment routes as described in certain parameters of interest against cost, accuracy and time to respond. It will then make recommendations of development and acquisition strategies as constrained by cost, risk and operational flexibility. Sponsored by: USD(AT&L), USD(I), DDR&E, DUSD(A&T). **This report is in draft.** (Maj Lominac)
- **IED Phase II** (co-chairs: Dr. Eric Evans and LTG Paul Funk (USA, Ret.)) This follow-on task force to the first IED effort will develop strategic and operational plans and examine the goals, process and substance of those plans. It will also act as an independent sounding board to the JIEDDO by providing feedback at a quarterly interval. Sponsored by: USD(AT&L), JIEDDO. **This task force is in process.** (Maj Lominac)
- **Integrating Sensor-Collected Intelligence** (co-chairs: Mr. John Stenbit and Mr. James Shields) The task force will determine what improvements are needed in tasking, collecting, processing, data storage and fusion,

exploitation and the dissemination of information collected by ISR systems. Sponsored by: USD(AT&L), USD(I), STRATCOM, Joint Staff (J8). **This task force is in progress.** (Maj Lominac)

- **Developmental Test and Evaluation** (chair: Mr. Pete Adolph). The task force will examine the T&E organizational roles and responsibilities, policy and practices in oversight of acquisition programs. It will also recommend improvements in the T&E process to discover suitability problems earlier than they are currently. Sponsored by: USD(AT&L), DUSD(A&T), DOT&E. **This task force is in draft.** (Maj Lominac)
- **Achieving Interoperability in a Net-Centric Environment** (co-chairs: HON Art Money and LTG Bill Hilsman, USA(Ret.)) The task force has been asked to examine different models of achieving interoperability among DoD components, domestic support operations, coalition partners and non-governmental organizations. It will assess standards-only approach for independent development of systems, development of a certification capability and use of single autonomous agency as a mechanism to achieving interoperability. Sponsored by USD(AT&L), USD(I), ASD(NII) and Commander, STRATCOM. **This task force is in progress.** (CDR Phillips)
- **Understanding Adversaries** (co-chairs: Dr. Anne Marie Skalka and Mr. Larry Lynn) The task force has been asked to review DoD attempts to assess population social structures, assess current S&T plans and identify relevant mechanisms that may be needed to accelerate relevant approaches into military capabilities. Sponsored by USD(AT&L) and USD(P). **This task force is in progress.** (CDR Cliff Phillips)
- **Integrating Commercial System into DoD Effectively & Efficiently** (chair Dr. Jacques Gansler) This Task Force will review DoD's post-award direction of hardware changes to alleged "Non-developmental Item (NDI)/Commercial Off-the-Shelf (COTS)" acquisitions, and make recommendations to achieve a more pragmatic and resource conscious process. Sponsored by USD(AT&L) and DUSD(A&T) **This task force is in progress.** (Maj Lominac)

- **Future Perspectives** (chair: Dr. Craig Fields) This task force is geared towards preparing for the administration transition. It will review findings, conclusions and recommendations of past DSB studies and issue a report summarizing and integrating this past DSB work. Sponsored by USD(AT&L). **This task force is in progress.** (CDR Cliff Phillips)

## *Permanent Sub-Committees*

- **Nuclear Weapons Surety (JAC)**
- **Defense Intelligence**
- **Electron Devices (AGED)**

### **Army Science Board (ASB)**

**Dr. Frank Akers – Chairman**

**Dr. Lawrence Delaney – Vice Chairman**

**COL Heather Ierardi – Exec. Secretary**

The ASB website is located at :

<https://webportal.saalt.army.mil/main/asb.htm>.

### **Naval Research Advisory Committee (NRAC)**

**Dr. Frank Fernandez- Chair**

**Dr. Anna Johnson-Winegar - Vice Chair**

**Mr.. William Ellis, Jr. - Program Director**

**RADM William E. Landay III, USN – Executive Director**

The NRAC website is located at:

[www.onr.navy.mil/nrac](http://www.onr.navy.mil/nrac)

### **Air Force Scientific Advisory Board (SAB)**

**Ms. Heidi Shyu - Chair**

**Prof. Ann Karagozian - Vice Chair**

**Lt Gen Donald Hoffman - Military Director**

**LtCol David Lucia - Executive Director**

The SAB met in Washington on 15-17 January, 2008 for its Winter Board meeting. The main purpose of this meeting was to present, deliberate and approve the recommendations made during the fall review of 5 of the Air Force Research Lab S&T directorates, but it afforded each of this year's 4 study panels the opportunity to meet as well. Several distinguished guest speakers addressed the SAB during the full board session on 15 January, including Lt Gen Gary L. North,

Commander, 9 AF and U.S. Central Command Air Forces, Shaw AFB, SC; Lt Gen Robert J. Elder, Commander, 8th Air Force, Barksdale AFB, LA., and Joint Functional Component Commander for Global Strike and Integration, U.S. Strategic Command, Offutt AFB, NE; Ms. Paige Atkins, Director, Defense Spectrum Organization, DISA; and Dr. Jim Riker, AFRL Directed Energy Directorate.

Each of these speakers was chosen for the unique perspective they could provide to this year's ongoing studies, which are:

- Defending and Operating in a Contested Cyber Domain  
*(Prof. Janos Sztipanovits - Chair; Prof. Alex Lewis - Vice Chair)*
- Airborne Tactical Laser Feasibility for Gunship Operations  
*(Dr. Hsiao-hua Burke - Chair; Prof. Michael Sailor - Vice Chair)*
- Kinetic Precision Effects  
*(Dr. Alan Eckbreth - Chair; Dr. Robert Peterkin - Vice Chair)*
- Implications of Spectrum Management for the Air Force  
*(Prof. Werner Dahm - Chair; Dr. Eliabu Niewood - Vice Chair)*

The studies will continue until June 27<sup>th</sup> when they are out-briefed to Air Force senior leadership during the Summer Board held at the Beckman Center in Irvine, CA. The next meeting of the entire Board membership is scheduled for April 8-10<sup>th</sup> at Offutt AFB, Omaha, NE.

The SAB also recently made its solicitation for new Board Member nominations and 2009 Study Topics, both of which may be submitted electronically via the SAB Website. For more information, including instructions on how to submit nominations or study topics, please visit our web site at <https://www.sab.hq.af.mil> or call 1-800-762-7407.

## Defense Business Board (DBB)

**Chairman: Mr. Michael Bayer**

**Executive Director: Ms. Phyllis Ferguson**

Secretary Gates recently appointed the following new board members: Mr. Philip A. Odeen, Mr. Dennis F. Hightower, and Mr. Bruce E. Mosler. Phil is currently the non-executive Chairman of Convergys, a leading outsourcing company, and

AES, an international energy company and has broad experience in corporate management, defense technology, government relations, and national security. Dennis is the former CEO of Europe Online Networks and has extensive experience in global business management and corporate strategic planning, and currently serves on the Board of Directors of Accenture, Ltd. and Domino's Pizza Inc. Bruce, President and CEO of Cushman Wakefield holds broad experience in financial management and global acquisitions. He serves on the Capital Campaign Committee of the American Cancer Society Hope Lodge and the Executive Committee of the Real Estate Board of New York. A copy of the biography for each of these new members may be found at [www.dod.mil/dbb](http://www.dod.mil/dbb).

The board met for its second quarterly meeting on January 10, 2008 in Arlington, VA where it released recommendations on a task group, "Engaging US Business in Support of National Security Objectives." The report on the work by this task group highlights key recommendations to create a productive partnership between the U.S. business community and the U.S. Government to create positive outcomes for American economic and foreign policy interests in target countries. A copy of the report is available on the DBB's web site at [www.dod.mil/dbb](http://www.dod.mil/dbb).