



# DSB Newsletter

February 2007

Dr. William Schneider, Jr., Chairman

Mr. Vince Vitto, Vice Chairman

Mr. Brian Hughes, Executive Director

## Chairman's Corner

The new year finds us busy again with a slate of new task forces, plus a large-scope summer study.

This year's summer study, *Challenges to Military Operations in Support of National Interests*, promises a challenge to the participants. There are 8 panels examining the varied tasks and are still adding members. If you have not signed on to a panel, I request that you do so soon.

Please note that the summer study outbrief in Irvine has moved to Thursday, 16 August to allow Friday as a travel day.

The evening of February 8<sup>th</sup> should be memorable as the DSB celebrates its 50<sup>th</sup> anniversary. Since 1956 the Board has been at the forefront of providing relevant and timely advice to DoD leadership. We are proud to continue that tradition into a new Century and for at least 50 more years.

***Dr. William Schneider***

**[DSB WEBSITE: www.acq.osd.mil/dsb](http://www.acq.osd.mil/dsb)**

## *Travel Desk*

### **POV MILEAGE REIMBURSEMENT RATES EXPECTED TO RISE IN FEB 07**

The GSA's Office of Government wide Policy is in the process of recommending to the GSA Administrator a mileage increase for use of a POA for 2007 from \$0.445 to \$0.485 cents per mile. Their process has not yet been completed and must be approved by the agency's Administrator and the Office of Management and Budget. They anticipate having a recommendation published in the Federal Register by mid February 2007. The effective date will be confirmed at that time.

Until further notice, the POA mileage reimbursement rate remains \$0.445 cents per mile.

Contact Karl Donerson (703) 695-4157 if you have any questions.

## 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

- **Critical Homeland Infrastructure Protection** (Co-chaired by Dr. Mim John and Dr. Ron Kerber). This study is co-sponsored by Acting USD(AT&L) and the Assistant Secretary of Defense for Homeland Defense. The Task Force is chartered to assess best practices for protecting US homeland installations and recommending various approaches to enhancing security and protection of these facilities. The Task Force is to assess shortfalls, identify promising technology and/or processes, recommend methods to reduce manpower requirements, identify issues associated with military and private responsibilities for critical facility protection. **The final report has been released.**
- **Red Lessons Learned** (Chair: Mr. Rich Haver) This study is co-sponsored by Acting USD(AT&L), the Under Secretary of Defense (Intelligence), and the Director, Defense Research and Engineering. The Task Force will assess what information our adversaries learn from U.S. military engagements, and particularly, what might they have learned from OIF and OEF. The Task Force is to identify what channels adversaries learn of our capabilities, and if there is evidence an adversary is adjusting to U.S. capabilities. In addition to the operational phase, the Task Force is to assess the preparation and stabilization phase as well. **The report is in draft.**
- **2005 Summer Study on Reducing Vulnerabilities to Weapons of Mass Destruction (WMD)** (Co-Chairs: Mr. Larry Lynn and Mr. Bob Nesbit). This Summer Study is co-sponsored by the Acting USD(AT&L) and the Assistant to the Secretary of Defense (Nuclear, Chemical and Biological Defense Programs). The Summer Study is to develop a national enterprise architecture to reduce the US vulnerability to WMD. The Summer Study assessed which WMD modalities are the US most vulnerable to, and the functional "requirements" of envisioned WMD defense capability. The Task Force is to develop an overall architecture, examine current and planned US investments in WMD defense, and recommend a prioritized investment strategy. **A classified report has been completed, an unclassified version is in security review.**
- **Improvised Explosive Devices** (Co-Chairs: Dr. Delores Etter, and Mr. Robert Stein) This Task Force is co-sponsored by the Acting USD(AT&L), Director of Defense Research and Engineering (DDR&E), and Director, Defense Systems. The Task Force originated as a panel on the Force Protection Task Force before becoming a separate Task Force. This study is to explore methods and techniques to significantly reduce the effects of IEDs (i.e., injuries, casualties, hampered or disrupted operations) on U.S. and coalition forces in operations such as are currently being conducted in OIF. **A classified report has been completed. An unclassified executive summary is in security review.**
- **VTOL/STOL** (co-chairs: ADM Don Pilling, USN (Ret) and Dr. Bill Howard). The task force is sponsored by USD(AT&L) and Director, Defense Systems. The task force is to assess what features and capabilities Vertical Take-Off and Landing (VTOL)/Short Take-Off and Landing (STOL) aircraft should have in order to support the nation's defense needs through at least the first half of the 21<sup>st</sup> century. **The task force is in progress.**
- **Software Assurance** (chair: Dr. Bob Lucky). The task force is sponsored by USD(AT&L), ASD(NII) and Commander, STRATCOM. The task force is to assess the risk the DoD runs as a result of foreign influence on its software and to suggest technology and other measures to mitigate that risk. **The task force is in progress.**
- **2006 Summer Study on 21<sup>st</sup> Century Technology Vectors** (co-chairs: Dr. Bill Graham and Dr. Ted Gold). The Summer

Study is to determine the operational capabilities to support the National Security objectives of the 21<sup>st</sup> Century. Once the operational capabilities are determined, the study will then identify the science and technology requirement that will support those capabilities and compare it to current science and technology planning as well as transitioning those technologies to a capability. **The final report has been released**

- **2006 Summer Study on Information Management for Net-Centric Operations** (co-chairs: Mr. Vince Vitto, Dr. Ron Kerber). This summer study will assess the Department's strategy, scope and progress toward achieving a robust and adaptive Net-Centric DoD Enterprise. It will examine: the operational value enabled by networks and networking and their impact on innovations across the Enterprise; the underlying framework, architecture, processes and organizational structures necessary for delivering the power of information to the DoD enterprise; and, assess the state of the art in knowledge utilization, with focus on information discovery, sharing in a secured networked environment, visualization and collaboration. **The final report is in security review.**
- **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. **The task force is in progress.**
- **Defense Biometrics Program** (chair: Dr. Joe Markowitz) A task force requested by USD(P) and VCJCS to determine the role of biometrics within the DoD's mission space and to recommend which DoD organization is best suited to advocate and advance biometrics. It will also examine science and technology activities that promote biometric advancement and effective operational support to the warfighter. **The task force is in progress.**

- **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, reducing system vulnerability and risk, reducing demand, and where feasible, stimulating commercially viable enterprises for possible incorporation into a national energy plan designed to achieve a meaningful level of energy independence nationwide. The scope of this assessment will include both supply and demand sides of the energy equation for operations during peacetime and wartime, and for emerging defense missions in the homeland. **The task force is in progress.**
- **Impact of Export Controls on the Space Industrial Base** (chair: Mr. A. Tom Young, Vice-chair: Dr. Bill Ballhaus) This task force will assess the future direction of space requirements and identify the industrial base to meet those requirements while balancing national security export control concerns. It will study the overall health of the space industry as well as impact (if any) of export controls on US international relations and recommend improvements to current policies and processes that can shape the space industrial base to deliver future capabilities. This study will be in close contact with the "Defense Industrial Structure for Transformation" task force. **This task force is on hold.**
- **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. **This task force is in progress.**
- **Deployment of the National Guard and Reserves in the Global War on Terrorism** (co-chairs: ADM Don Pilling (USN, Ret.) and

GEN Mike Williams (USMC, Ret.)) This task force will study the length and frequency of the deployment of the National Guard and Reserves in the GWOT. It will assess the consequences for force structure and mission capabilities over the course of the GWOT and identify the optimal length and frequency of deployments of National Guards/Reserves during the GWOT. **This task force is in progress.**

- **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. **This task force is in progress.**
- **Directed Energy Weapon Systems and Technology Application** (co-chairs GEN Larry Welch (USAF, Ret.) and Dr. Bob Hermann) This task force is looking into the advances in directed energy (DE) applications within DoD. It will identify duplicative efforts, assess DE operational concepts and limitations and recommend an optimal way forward for the DoD to maximize use of resources, capabilities and hardening capabilities. **This task force is in progress.**

## Army Science Board (ASB)

The ASB website is located at :  
<https://webportal.saalt.army.mil/main/asb.htm>.

## Naval Research Advisory Committee (NRAC)

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

The Naval Research Advisory Committee continues work through two study panels. These are:

- Biometrics – Panel is focusing on the tactical applications of biometrics technologies. Interim briefing for ASN

(RDA) Dr. Etter is scheduled for early March. Panel's work will continue through the June Summer Study.

- Lightening the Load for the Individual Marine – Study panel is just starting up. Panel will focus on eldership issues, logistics and technologies that may assist in reducing overall weight of gear individual marines are carrying into combat. Panel's work will continue through the June Summer Study.

Spring meeting will be held in Florida February 26 through March 2.

## Air Force Scientific Advisory Board (SAB)

[www.sab.hq.af.mil](http://www.sab.hq.af.mil)

The Air Force Scientific Advisory Board is working on seven studies for fiscal year 2007: two quick looks and five full length studies. The two quick look studies should be outbriefed to Secretary Wynne sometime in Feb/Mar. The five full length studies will be finished and outbriefed to Air Force leadership on June 30 at the end of the summer writing session at the Beckman Center in Irvine, CA. Study titles with chair and vice chair are listed below.

### AFSAB Quick Look Studies

*DE Weaponization Readiness Assessment*

Dr. Doug Beason – Chair

*Aircraft Operation in GPS-Jammed Environment*

Dr. John Betz – Chair

### AFSAB Full Length Studies

*Implications of Cyber Warfare*

Mr. Skip Saunders– Chair

Prof. Alex Levis – Vice Chair

*Operational Utility of Small Satellites*

Dr. John Brock - Chair

Dr. Michael Yarymovych – Vice Chair

*Use and Sustainment of Composites in Aircraft*

Prof. Roger Howe – Chair

Mr. Phil Soucy – Vice Chair

*Thermal Management Technologies*

Prof. Werner Dahm – Chair

Mr. Ed Glasgow – Vice Chair

*Theater Ballistic Missile Threat Assessment*

Dr. Doug Beason – Chair

Mr. Tim Bonds – Vice Chair

## Defense Business Board (DBB)

The Defense Business Board (DBB) wrapped up 2006 with a review of prior tasks, "Report FY07-1: *Review and Implementation Status of Prior Defense Business Board Recommendations*. The report is available on the DBB's web site at [www.dod.mil/dbb](http://www.dod.mil/dbb)

The DBB will begin 2007 by concluding its review of *Supply Chain Management, A Review of Roles and Responsibilities*. The Deputy Secretary also has asked the DBB to review opportunities for military-to-civilian conversion with an emphasis on how to improve and reinforce prior efforts to improve the tail-to-tooth relationship. Other potential topics for 2007 include a review of the Department's approach to executives' total compensation packages.

The DBB's founding Chairman, LTG William ("Gus") Pagonis (USA, Ret.) stepped down in December. Frederic W. Cook is serving as Acting Chairman until a permanent Chairman is appointed by Secretary Gates.

The DBB's 2007 meeting schedule is as follows:  
April 26th, July 11th and November 14th.

