



# DSB Newsletter



October 2006

**Dr. William Schneider, Jr., Chairman**

Mr. Vince Vitto, Vice Chairman

Mr. Brian Hughes, Executive Director

## *Chairman's Corner*

The two summer studies culminated their efforts in well-received outbriefs in Irvine, California, on 18 Aug 2006. We are working the schedules to get the results to Secretary Rumsfeld and Deputy Secretary England. On the afternoon of October 19 we are presenting the outbriefs to all-interested DoD personnel in the Pentagon Auditorium. If you did not get the opportunity to hear the outbrief in Irvine I encourage you to attend the Pentagon outbrief.

We are in the process of finalizing the topic(s) for next year's Summer Study. As the 2007 activities begin to take form, please mark your calendar with the meeting dates listed below.

*Dr. William Schneider*

## **DSB MEETING DATES FOR 2007**

- 7-8 February 2007 – Winter Quarterly
- 2-3 May 2007 – Spring Quarterly
- 6-17 August 2007 – Summer Study, Irvine, CA
- 24-25 October 2007 – Fall Quarterly

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

## *Travel Desk*

The per diem rate for the Washington, D.C. area changed to \$166 on October 1, 2006. The rates are seasonal and change based on the following schedule:

Feb 1 - June 30 = \$180

July 1 - August 31 = \$150

Sep 1 - Sep 30 = \$192

Oct 1 - Dec 31 = \$166

Jan 1 - Jan 31 = \$187

These rates apply unless an actual expense reimbursement has been authorized/approved.

## 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 is in security review.**
- **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 is in draft.**

- **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 draft.**
- **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 quick turn around 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 in progress.**
- **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.**

## Army Science Board (ASB)

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

## Naval Research Advisory Committee (NRAC)

### NRAC Summer Studies -2006

**Marine Corps Distributed Operations** – This NRAC study panel examined the emergent concept of Marine Corps Distributed Operations in order to develop a set of future technology insertions and training opportunities. The panel identified time-phased insertions based on capability requirements and shortfalls and addressed the risk associated with various courses of action. The study also expanded on current concepts and models regarding power, protection, logistics, performance and training.

**Software-Intensive Systems** -- This NRAC study panel examined how systems engineering, model driven architecture, and modular software specification and implementation methods can be applied in a realistic manner to specifying, bidding, and engineering of software-intensive systems, across multiple organizations. Beyond technical considerations, this study investigated challenges with using and fielding computer-based acquisition tools in the context of existing Navy organizational structures, policies, and the overall workflow associated with the acquisition of new systems.

### Ongoing NRAC Study Panels

**Biometrics** -- In September the NRAC initiated a study panel to examine biometrics. Because of the commonalities of interests, the Army Science Board (ASB) joined the NRAC in this study panel. This combined NRAC – ASB study panel will examine current biometric technologies and their applicability to Navy, and common Marine Corps and Army missions, to allow the operating forces to deal more effectively with the

asymmetric challenges of the current and projected security environment.

### NRAC 2006 Summer Study Outbrief

The NRAC will brief the findings of its 2006 Summer studies on October 26, 0800-1100 at the Pentagon Auditorium (BH 650). All interested parties are invited to attend. You will require an ID that allows access to the Pentagon. NRAC cannot provide escort into the Pentagon. If you would like to attend or for more information please contact [orie\\_wigfall-davis@onr.navy.mil](mailto:orie_wigfall-davis@onr.navy.mil).

## Air Force Scientific Advisory Board (SAB)

The AFSAB website is located at:  
[www.sab.hq.af.mil](http://www.sab.hq.af.mil)

## Defense Business Board (DBB)

In 2006, the DBB released reports, which can be found on the website ([www.dod.mil/dbb](http://www.dod.mil/dbb)) on the following topics:

**Report FY06-1:** Shaping and Utilizing the Senior Executive (SES) Corps

**Report FY06-2:** Governance – Alignment and Configuration of Business Activities

**Report FY06-3:** Innovation and Culture Change

**Report FY06-4:** Creating a Chief Management Officer in the DoD (CMO) (Part 2)

**Report FY06-5:** Military Health System – Governance, Alignment and Configuration of Business Activities

In support of ongoing Defense Enterprise transformation, Deputy Secretary of Defense, Gordon England, has asked the DBB to review the status of implementation of its prior recommendations and make recommendations to him for actionable steps he can take to bring the most relevant and critical recommendations to fruition. The Board will present its findings and recommendations to the Deputy Secretary on December 6, 2006. Topics of study for 2007 will be determined at the December meeting. Meeting dates for 2007 are January 31, April 26, July 11 and November 14, 2007.