

DSB Newsletter

May 2008

Dr. William Schneider, Jr., Chairman

Mr. Vince Vitto, Vice Chairman

Mr. Brian Hughes, Executive Director

Chairman's Corner

Welcome to the Spring Quarterly meeting. We thank Dr. Mim John and Mr. Bob Stein for hosting us for a few hours at their summer study plenary session.

As you will gather from our meeting with the summer study, the greatly compressed timeline will be a challenge. But the study is off to a good start and hopefully can benefit from your participation.

With the sprint for the summer study and the preparations for transitioning between administrations this summer and fall promise 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

- 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). **This report is in draft.**
 - **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 report is in draft.**
 - **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.**
- **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 report is in security review.**
 - **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.**
 - **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 progress.**
 - **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.**
 - **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 report is in draft.**

- **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.**
- **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.**
- **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.**
- **Future Perspectives** (chair: Dr. Craig Fields) This task force is geared towards preparing for the transition between administrations. 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.**
- **NNSA Strategic Plan for Advanced Computing** (co-chairs: Mr. Robert Nesbit and Dr. Bruce Tartar) This task force will assess the adequacy of the strategic plan for the Advanced Simulation and Computing (ASC) program in supporting the Stockpile

Stewardship Program in addition to efforts to coordinate supercomputing work within DoE. Sponsored by USD(AT&L), NNSA Administrator and ATSD(NCB).

- **2008 Summer Study on Capability Surprise** (co-chairs: Dr. Mim John and Mr. Bob Stein) The summer study program will focus on the "what" and "why" of the different paths a capability surprise could occur and measure how DoD is positioned to prevent or mitigate capability surprise. Also, an assessment will be made of cost imposing strategies via high and low end technologies that could be used against the US, plus the potential for the US to use such a strategy against an adversary. Sponsored by USD(AT&L), USD(I), VCJCS and Commander, JFCOM.
- **DoD Policies and Procedures for the Acquisition of Information technology** (co-chairs: Mr. Vincent Vitto, Dr. Ronald Kerber) The task force will determine whether existing acquisition policies and processes provide the foundation necessary for an effective information technology acquisition model and identify improvements to enhance the DoD's approach to information technology acquisition. Sponsored by USD(AT&L) and ASD(NII).

Permanent Sub-Committees

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

Army Science Board (ASB)

Dr. Frank Akers – Chairman

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The ASB website is located at :

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

Naval Research Advisory Committee (NRAC)

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RADM William E. Landay III, USN –
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The NRAC website is located at:
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 Air Force Scientific Advisory Board (SAB) held its Spring Board meeting at Offutt AFB, NE on 8-11 April, 2008. The Board reviewed the progress of this year's four ongoing studies as they prepare to present results and findings at the end of summer session in June. Brigadier General James "Rev" Jones and the men and women of the Fightin' 55th, the largest wing in Air Combat Command, hosted a site visit of the base and provided valuable insights into the operational Air Force through a series of tours and mission briefings of the 55th Wing, USSTRATCOM, and the Air Force Weather Agency. Vice Admiral Carl V. Mauney, the Deputy Commander of USSTRATCOM, addressed the Scientific Advisory Board at the banquet held the same evening.

The summer session meetings will be held from 16 – 27 June culminating in study out-briefs to Air Force senior leadership on the 26th and 27th of June. The four studies to be presented are:

- Defending and Operating in a Contested Cyber Domain
- Airborne Tactical Laser Feasibility for Gunship Operations
- Kinetic Precision Effects
- Implications of Spectrum Management for the Air Force

For information regarding the Air Force Scientific Advisory Board, please contact the secretariat at 1-800-762-7407 or via email: af.sb@pentagon.af.mil.

Defense Business Board (DBB)

Chairman: Mr. Michael Bayer
Executive Director: Ms. Phyllis Ferguson

www.dod.mil/dbb.