



# DSB NEWSLETTER

June 1998

Philip A. Odeen, Vice Chairman

Craig Fields, Chairman

John V. Ello, Executive Director

## CHAIRMAN'S CORNER

With the 1998 DSB Summer Study Program now fully underway, I want to express my sincere thanks and deep appreciation to the respective co-chairmen of each effort:

### **DOD Logistics Transformation:**

Co-Chairmen: Phil Odeen & Bill Howard

### **Joint Operations Superiority in the 21st Century:**

Co-Chairmen: Larry Welch & Don Latham

As most of you know, both of these important studies are a natural extension of the seminal work that was completed by the Board in 1995. That earlier effort was specifically designed to identify the very different and complex challenges that the Nation and the Department of Defense will face in the 21st Century. While much has been accomplished in the succeeding Summer Studies of 1996 and 1997, as well as the many other individual Task Force efforts in support of same, a great deal more time and effort will be required of the Board in the days to come. The potential future problems facing the country are indeed both serious and complex. With the continuing strong backing of the Senior DOD Leadership, I am confident that the DSB can make a significant contribution both to the Department and the defense of our Nation and I look forward to working with all of you to meet those challenges in the days ahead.

Craig Fields

## 1998 DSB MEETING DATES

- August 2-14 Summer Study Conclusion (Beckman Center, Irvine, CA)
- October 7-8 Fall Quarterly Meeting (Pentagon)





## **DSB SECRETARIAT**

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**Note: Several important staff changes in the DSB Secretariat will be taking place in the near future:**

- CDR Dave Norris will shortly be reassigned to begin the submarine Prospective Commanding Officer training pipeline enroute to command of USS GEORGIA (GOLD), a Trident Submarine, with a new duty station at Bangor, Washington. Date of departure will be on or about 19 June 1998. Congratulations Dave on a superb job as Navy Military Assistant and best wishes from the entire Board membership and all your colleagues in the DSB Secretariat!

- CAPT Jim Lyons is scheduled to report on 1 June 1998 as the incoming Navy representative to the DSB.

- LTC Don Burnett is also scheduled to report on 1 June 1998 as the incoming Army representative to the Board.



## **1998 EUGENE G. FUBINI AWARD**

A number of outstanding candidates have been nominated over the past several months for award of the 1998 Fubini Award. To assist in the process of identifying the ultimate winner, Mr. Dave Heebner has agreed to chair a Review Committee to assess each nomination and make a final recommendation to the DSB Chairman, which will then be forwarded to the USD(A&T) and the Secretary of Defense. Other members of the Review Committee are Dr. George Heilmeyer and Dr. Anita Jones.



## **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. An overall roster of current Board members is on page 8.

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## **NEW TASK FORCES**

Three new DSB Task Force studies are in the process of being initiated:

- **National Imagery and Mapping Agency.** Co-Chairs: Dr. Anita Jones and Mr. Peter Marino
- **Test and Evaluation.** Chair: Mr. David Heebner
- **Defense Human Resources Strategy.** Co-Chairs: Dr. John Foster and General Larry Welch, USAF (Ret.)

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## **1998 SUMMER STUDY PROGRAM**

- **DoD Logistics Transformation**

(Co-Chairmen: Mr. Phil Odeen and Dr. Bill Howard) The purpose of this summer study is to address transformation of military logistics for 21st Century. The Task Force will provide recommendations to best make future military capabilities meet JV2010 initiatives and will include strategy and actions to accomplish a true transformation--not marginal improvements--to the logistics systems. The first Plenary Session consisted of briefings from all the combatant CINCs and Services. The second Plenary Session was held 18-19 May with briefings from industry and the last session before completing the report in August will be 14-15 July. (Major Waldron)

- **Joint Operations Superiority in the 21st Century**

(Co-Chairmen: Gen. Larry Welch USAF (Ret.) and Mr. Donald Latham) The 1998 Summer Study will address integrating capabilities underwriting joint operations superiority in the 21st Century. The Task Force will focus on how new capabilities, operational concepts, and different force characteristics can be developed and integrated to underwrite Joint Vision 2010. Three meetings have been held. Next meeting is June 9-10. (CDR Norris)

## STATUS OF RECENTLY COMPLETED AND ON-GOING STUDIES

- **Underground Facilities** (Chairman: Mr. Bill Delaney) This Task Force investigated near, mid, and far-term techniques and technologies to deal with the problems associated with underground facilities. The task force met numerous times, including at the Nevada Test Site, STRATCOM, Sandia, DSWA, and Lawrence Livermore. The Task Force chair has commenced briefing the final study results. A report is expected to be released in June 1998. (CDR Norris)
- **Advanced Modeling and Simulation for Analyzing Combat Concepts in the 21st Century** (Co-Chairmen: Dr. Ted Gold and Gen. Larry Welch, USAF (Ret.)) This Task Force is addressing the modeling and simulation capabilities required for analyzing concepts for 21st Century military combat operations. The Task Force has had several meetings including visits to STRICOM, TRADOC, TACCSF, and Boeing. The report is now in final draft. (CDR Norris)
- **Stealth Technology & Future S&T Investment** (Chairman: Dr. Robert S. Cooper) The Executive Secretary is Mr. Greico (OUSD/S&T Systems). Numerous briefings have been given to the Task Force from Services, Industry and OSD. The Task Force is finalizing their report. (Maj. Waldron)
- **Acquisition Reform, Phase IV** (Chairman: Dr. Robert Hermann) This Task Force is reviewing the status of current Acquisition Reform initiatives with a view toward developing metrics to improve future programs. The Task Force sub-panel on Acquisition Streamlining has completed their tasking. That report has been released and distributed to Congress with the DoD Report. There is a second sub-panel on Research and Development, which will be submitting its final report shortly. (Maj. Waldron)
- **Submarine of the Future** (Chairman: Mr. John Stenbit) This Task Force is considering the design of a submarine force for the future. The task force has met numerous times, including visits to Electric Boat Shipyard, the Naval Submarine Base in Groton, CT, and at the Knolls and Bettis Atomic Power Laboratories. The final report is undergoing Task Force review; estimated release date is June 1998. (CDR Norris)
- **Nuclear Deterrence** (Chairman: Gen. Larry Welch, USAF (Ret.)) This Task Force is looking at sustainment of strategic weapons, delivery systems, and the industrial/technical base. The Task Force has meet a number of times, including at STRATCOM in Omaha and most recently at Lawrence National Laboratory. The final report is being written and estimated release date is August 1998. (CDR Norris)
- **Open Systems** (Chairman: Dr. Wayne O'Hern) The first meeting was held 16-17 September 1997. The Task Force is being sponsored by OUSD (A&T)/S&TS. Mr. Leonard Burke, Director, Open Systems Joint Task Force is the Task Force Executive Secretary. The Task Force has received numerous briefings to gain information in seven specific sub-committee areas. The Task Force outbriefed the USD(A&T) 13 May. A final report is expected in October. (Maj. Waldron)
- **Defense Technology Base of the 21st Century** (Chairman: Mr. Walter Morrow) This Task Force will recommend a strategy to assure an appropriate technology base for the 21st century. The final report is being written and is expected to be released in June 1998. (CDR Norris)

- **Control of Military Excess/Surplus Material** (Co-Chairs: Dr. Delores Etter and Mr. John Stewart) This Task Force is examining the effectiveness and relevance of current export controls, the threat posed from release of surplus military material, and any changes needed in current policy and regulations for controlling surplus military material. This Task Force is in the process of receiving final background briefings and formulating the report outline. The report is currently undergoing final Task Force review. (CDR Norris)
- **Coalition Warfare** (Chairman: Dr. Ted Gold) There have been five meetings with numerous briefings from international and national organizations. The Army War College hosted a meeting and organized a seminar with their international students that was very enlightening. An interim report was requested and delivered to the USD(A&T) in April that noted preliminary observations and areas that are being examined. A companion effort has also been initiated by the UK equivalent of the DSB, the Defence Scientific Advisory Council (DSAC). It is expected that key findings of these two efforts will be exchanged as each study evolves in the months to come. A final report is expected January 1999. (Maj. Waldron)
- **National Imagery and Mapping Agency** (Co-chairs: Dr. Anita Jones and Mr. Peter Marino) This new Task Force will have a preliminary planning meeting 28 May at NIMA. Their task is to review the objectives and plans of the National Imagery and Mapping Agency (NIMA) to meet the needs of the national and military intelligence customers as they enter the 21<sup>st</sup> Century. A final report is planned for January 1999. (Maj. Waldron)
- **Test and Evaluation** (Chairman: Mr. Dave Heebner) This new Task Force will undertake a broad review of the entire range of activities relating to Test and Evaluation (T&E), and will include such areas as ACTD, infrastructure, the "systems of systems." The Task Force held its first meeting on 26-27 May and will produce a report in April 1999. (CDR Norris)

Since publication of the last DSB Newsletter, the following reports have been completed and released:

- **1997 Summer Study on DoD Responses to Transnational Threats, Volume II and III** (Chairman: Dr. Robert Hermann)
- **Satellite Reconnaissance** (Chairman: Dr. Robert Hermann)
- **Acquisition Workforce Sub-Panel of the Defense Acquisition Reform—Phase IV Task Force** (Chairman: Dr. Robert Hermann, Sub-Panel Chairman: Gen. William Tuttle, USA (Ret.))
- **Deep Attack Weapons Mix Study** (Chairman: Mr. Walt Morrow)
- **Unexploded Ordnance (UXO) Clearance, Active Range UXO Clearance, and Explosive Ordnance Disposal (EOD) Programs** (Chairman: Dr. John Foster)
- **Year 2000** (Chairman: Mr. Bert Fowler)

Current and projected DSB Task Force Timelines are on page 9.

## OTHER DoD ADVISORY BOARD ACTIVITIES

### Army Science Board (ASB)

- Dr. Michael J. Bayer - Chairman
- Dr. W. Foster Rich - Vice Chairman
- COL Len Gliatta - Executive Secretary

The ASB welcomes Mr. Michael J. Bayer who was recently appointed as the new Chair of the Army Science Board. The previous Chair, Dr. Michael Frankel is leaving the ASB after serving six distinguished years. He was recently appointed as a member of the Defense Science Board.

The ASB will be conducting its final Summer Study Meeting, 13-23 July, 1998, at the Beckman Center. Study topics for this year include:

1. **Concepts and Technology for the Army Beyond 2010** (Co-Chairs, Dr. Joe Braddock and LTG(Ret) Paul Funk)
2. **Prioritizing Army Space Needs** (Co-Chairs, Mr. Ray Leadabrand and Mr. John Cittadino)

### Naval Research Advisory Committee (NRAC)

- Dr. Patrick H. Winston – Chairman
- Ms. Diane Mason-Muir – Program Director

NRAC 1998 Summer Study task forces are (1) **Information Technology Interoperability**, which will assess technologies and interoperability implications associated with information transfer and interaction among systems as well as between systems, especially among and between NATO and coalition forces; and (2) **Training Technologies**, which will evaluate new and emerging technologies and technology-enabled methodologies for training Naval personnel. NRAC will hold its 1998 Summer Study, 13-24 July 1998 in San Diego, CA.

A third NRAC panel is forming on **Global Positioning System (GPS) Vulnerability and Alternatives**, which will examine the vulnerabilities of GPS on Navy and Marine Corps platforms and weapons systems, identify deficiencies, and recommend solutions to the problems.

NRAC recently appointed 5 new members:

Mr. John M. Bachkosky--Chief Operating Officer at System Planning Corporation.

Mr. Peter A. Gale--Chief Naval Architect at John J. McMullen Associates, Inc.

Dr. Joseph A. Johnson--Director of the Center for Nonlinear and Nonequilibrium Aeroscience and Distinguished Professor of Science and Engineering, Professor of Physics, and Professor of Mechanical Engineering at Florida A&M University.

Dr. Shirley Laskka--Vice Chancellor for Research and Sponsored Programs and Professor of Sociology at the University of New Orleans.

Dr. Robert C. Spindel--Director of the Applied Physics Laboratory of the University of Washington.

### Air Force Scientific Advisory Board (SAB)

The SAB Co-chairmen are: Mrs. Natalie Crawford, RAND Corporation and Dr. William Ballhaus, Lockheed Martin Corporation, Bethesda. The conclusion of the 1998 Summer Study is being held at the Beckman Center, 15-26 June, 1998. Col. Robert Schraeder is the new SAB Executive Director. Col. Fink retired in May.

#### **1998 SAB Studies:**

- **Going to Space: A Roadmap (Summer Study).** The growing importance of space systems in the emerging global security environment makes it imperative that the Air Force, as the executive agent for DOD, deploy and operate effective space and transatmospheric systems and associated infrastructure. This study effort included a quick-look study led by the USAF Chief Scientist. Their first meeting was held 12-13 Feb 98.
- **Information Management Support for the Warrior.** Desert Storm identified the need for increased communications bandwidth and information support systems to enhance Air Force combat support capability. In the ensuing years, a "push-pull" system has developed. A consequence is that users oftentimes find themselves overwhelmed with data and unable to sort out what is important to them at any given time. The SAB study effort should 1) identify approaches to the information management problem currently underway within DOD, and 2) develop a sufficient knowledge base to enable senior leadership to select the correct course of action. Their first meeting was held Jan 98.
- **AF Test and Evaluation Infrastructure Study.** This report is expected to be released by the end of June. The study parallels DoD-sponsored Vision 21 analysis as independent input.
- **Magnetic Levitation at the Holloman High Speed Test Track Quicklook Study.** This study is being finalized. Briefings have been given to SAF/AQ and OSD and they are scheduled to brief BMDO. This technology is currently used in German and Japanese high-speed rail and in the New Attack Submarine.

## **DEFENSE SCIENCE BOARD MEMBERS AND EX OFFICIO**

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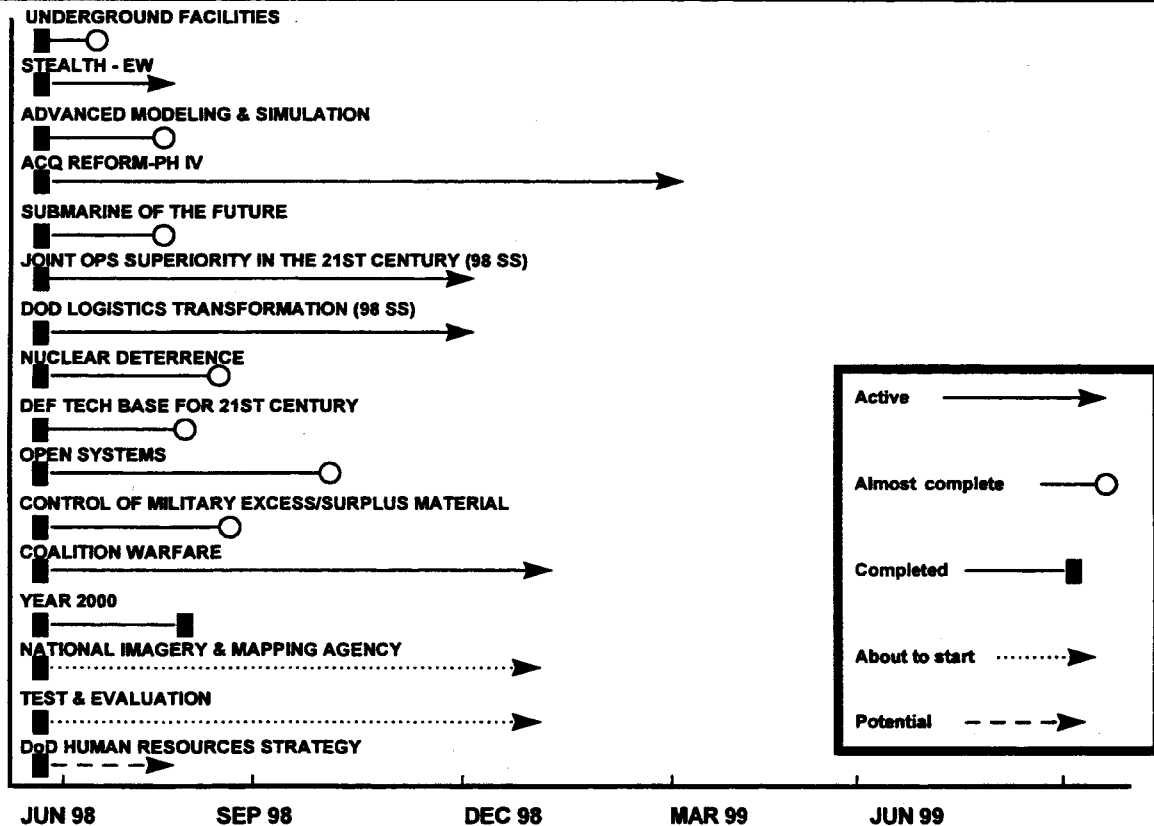


# DSB TASK FORCE STATUS AND TIMELINES

Below are the timelines for all ongoing DSB Task Forces:

## DSB Task Force Timelines

Jun 98



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