



DSB Newsletter

May 2013



Dr. Paul Kaminski, Chairman

Gen Lester Lyles, USAF (Ret.), Vice Chairman

Mr. Brian Hughes, Executive Director

Chairman's Corner

Welcome to the Spring Quarterly Meeting

Since our last Quarterly meeting in October, there has been much activity associated with the conclusion of the DSB's two-year-long Cyber Initiative. Both the task force on Resilient Military Systems and the Advanced Cyber Threat (co-chairs: Mr. Jim Gosler and Mr. Lou Von Thaer), and the Cybersecurity and Reliability in a Digital Cloud task force (co-chairs: Dr. Eric Evans and Dr. Robert Grossman) released their final reports. These studies received considerable interest throughout DoD and with the general public, as evidenced by the many requests for briefings that continue to arrive.

In April the Permanent Sub-Committee on Nuclear Weapons Surety report released its report, the Air Force Nuclear Enterprise Follow-on Review (chair: Gen Larry Welch, USAF (Ret)).

The Technology & Innovation Enablers for Superiority in 2030 study, (co-chairs: Mr. Jim Shields and Dr. Jim Tegnalia) is nearing publication of its final report. We have received many requests for the study's results and we look forward to publishing the findings and recommendations.

Additionally, Contractor Logistics Support of Contingency Operations (chair: Dr. Ron Kerber) is nearing completion, as well as the Assessment of Nuclear Treaty Monitoring and Verification Technologies report (co-chairs: Dr. Miriam John and Dr. Donald Kerr). We anticipate publication of these reports this summer.

The Task Force on Countering Violent Extremism (chair: Mr. Michael Bayer) and the 2013 Summer Study on 21st Century Military Operations in a Complex Electromagnetic Environment (co-chairs: Mr. Bill Delaney and Mr. Bob Stein), continue their start up preparations.

Finally, congratulations are in order to Dr. Bill LaPlante. Bill is now the Principal Deputy Assistant Secretary of the Air Force for Acquisition and Management and we look forward to his continued success.

Although we continue to face the challenges of tighter budgets, shifting priorities, and the uncertainty these dynamics bring, we are committed to move forward with our efforts to try to provide the very best advice and counsel we can for the DoD and especially for our men and women in uniform who are counting on it. I thank you for dedicating your valuable time, world-class skills, and significant efforts towards this important endeavor.

Dr. Paul Kaminski

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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

- **Assessment of Nuclear Treaty Monitoring and Verification Technologies** [co-chairs: Dr. Miriam John and Dr. Donald Kerr]. This study will assess the adequacy of the nation's technical tools to support monitoring and verification, both as part of the cooperative verification regimes of the treaties and through national intelligence. Sponsored by USD(AT&L), NNSA, and the DNI. **TOR signed April 2010, Report is in security review.** (CDR Reinbold)
- **Cyber Resiliency Metrics for Military Systems** [co-chairs: Mr. Jim Gosler, Mr. Lou Von Thae] This study will examine how to effectively measure the resiliency of military systems relative to various cyber attacks and adversaries, as a first step toward quantifying and developing systematic methods and standards to improve the resiliency of these systems and our confidence in the same. Sponsored by USD(AT&L). **TOR signed May 2011, final report released January 2013.** (CDR Reinbold)
- **Cybersecurity and Reliability in a Digital Cloud** [co-chairs: Dr. Eric Evans, Dr. Robert Grossman] The task force will evaluate all aspects of providing reliable, secure, and responsive services for military and intelligence applications using a digital cloud, a richly networked, distributed core of data storage and computational resources. Sponsored by USD(AT&L). **TOR signed May 2011, final report released January 2013.** (CDR Reinbold)
- **Contractor Logistics Support of Contingency Operations** [chair: Dr. Ron Kerber] The task force shall carry out a review of Department of Defense organization, doctrine, training, and planning for contractor logistics support of contingency operations. It is in accordance with section 848 of the National Defense Authorization Act for FY 2011 (H.R. 5136, 150-151). Sponsored by USD(AT&L). **TOR signed March 2012, finalizing report.** (CDR Reinbold)
- **Countering Violent Extremism** [chair: Mr. Michael Bayer] The task force shall conduct an independent assessment of the Department of Defense strategy to counter violent extremism outside of the United States in accordance with section 1239 of the National Defense Authorization Act for FY 2011 (H.R. 6523, 267-268). Sponsored by USD(AT&L). **TOR signed May 2011, membership forming.** (Lt Col Harvey)
- **Defense Science Board Study on Technology & Innovation Enablers for Superiority in 2030 (Summer Study 2012)** [co-chairs: Dr. Jim Tegnalia and Mr. Jim Shields]. The task force will conduct a study of the emerging technologies that will enable the next generation of dominant military capabilities to be in development or fielded by 2030. **TOR signed March 2012, finalizing report.** (CDR Reinbold)
- **Defense Science Board 2013 Summer Study on 21st Century Military Operations in a Complex Electromagnetic Environment** [co-chairs: Mr. Bill Delaney and Mr. Bob Stein] The task force will conduct a study of current and emerging EW techniques and capabilities that may face U.S. forces over the next two decades. **TOR signed November 2012, membership forming.** (Lt Col Harvey)

Permanent Sub-Committees

- **Nuclear Weapons Surety**
 - Recently released the report on the Air Force Nuclear Enterprise Follow-on Review (April 2013).
- **Nuclear Weapons-Survivability of DoD Systems and Assets to EMP and other Nuclear Weapons Effects**
 - No recent activity.

Updates from Other Boards



Chairman – Dr. Eliahu Niewood
Vice Chairman – Dr. Rami Razouk
Military Director – Lt Gen Charles R. Davis, USAF
Executive Director – LtCol Derek Lincoln, USAF

SAB secretariat: 1-800-762-7407
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The Air Force Scientific Advisory Board is currently working on three studies, in the areas of Airborne Networking and Communications for Contested Environments, EO/IR and Laser Threat Warning and Countermeasures, and Small Satellite Mission Applications. The three studies will wrap up in June when the Board has its Summer Session. The Board is also in the midst of its annual reviews of specific AFRL Technical Directorates. Those reviews will be completed over the Summer.



Army Science Board (ASB)

Chairman – Mr. George Singley
Vice Chairman – Dr. James Tegnalia
Executive Secretary – Ms. Carolyn Nash

ASB Secretariat: 703-617-0258
Website:
[http://www.army.mil/article/79442/Deputy
_Assistant_Secretary_Research_and___/](http://www.army.mil/article/79442/Deputy_Assistant_Secretary_Research_and___/)

ASB Charter

The ASB charter was renewed in May 2012. It is at <http://usarmy.vo.llnwd.net/e2/c/downloads/261951.pdf>.



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DEPUTY PROGRAM EXECUTIVE OFFICER: BGEN MARK R. WISE USMC
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Chairman – Mr. John Goodman
Executive Director – Ms. Phyllis Ferguson

Website: <http://dbb.defense.gov/>
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At its January 24, 2013 meeting, the Defense Business Board deliberated and approved recommendations on the following two studies: "Taking Advantage of Opportunities for Commercial Satellite Communications Services" and "Veteran Employment Study Part II: Review of Pilot Transition Goal Plans Success' Program."

The Commercial Satellite study, signed out by Deputy Secretary of Defense Carter and led by Mr. Neil Albert, reviewed impediments to DoD's ability to access the commercial satellite sector and recommend ways forward for DoD to better leverage opportunities from the commercial satellite service providers. The Veteran Employment study, signed out by Secretary of Defense Panetta and led by Mr. Richard Spencer, reviewed DoD's Transition GPS program and what more DoD could do to help public and private sector employers hire Veterans. A copy of the Board's recommendations for both studies may be found at <http://dbb.defense.gov/Jan2013.shtml>.

Additionally, at its April 25, 2013 meeting, the Defense Business Board deliberated and approved recommendations on its most recent study "Applying Best Business Practices in Corporate Performance

Management to DoD." This study, tasked by Deputy Secretary of Defense Carter and led by Mr. Joseph Wright, evaluated how successful, large and complex corporations plan, implement, and manage for peak performance on an ongoing basis, especially during periods of reduced budgets and resources. A copy of the Board's final recommendations may be found at <http://dbb.defense.gov/Apr2013.shtml>.

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Upcoming DSB Meeting Dates

- 23-24 October 2013 – Fall Quarterly Meeting
- 26-27 February 2014 – Winter Quarterly Meeting
- 21-22 May 2014 – Spring Quarterly Meeting
- 29-30 October 2014 – Fall Quarterly Meeting
- 25-26 February 2015 – Winter Quarterly Meeting
- 20-21 May 2015 – Spring Quarterly Meeting
- 4-5 November 2015 – Fall Quarterly Meeting
- 24-25 February 2016 – Winter Quarterly Meeting
- 18-19 May 2016 – Spring Quarterly Meeting
- 2-3 November 2016 – Fall Quarterly Meeting
- 15-16 February 2017 – Winter Quarterly Meeting
- 17-18 May 2017 – Spring Quarterly Meeting
- 1-2 November 2017 – Fall Quarterly Meeting
- 7-8 February 2018 – Winter Quarterly Meeting
- 16-17 May 2018 – Spring Quarterly Meeting
- 7-8 November 2018 – Fall Quarterly Meeting

Defense Science Board Members and Ex Officio

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Dr. Paul G. Kaminski, Technovation, Inc.

VICE CHAIRMAN

Gen Lester Lyles, USAF (Ret.), Private consultant

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Mr. William P. Delaney, MIT Lincoln Laboratory

Dr. Craig I. Fields, Private Consultant

Dr. Miriam E. John, Private Consultant

Dr. Ronald L. Kerber, Private Consultant

Hon. Anita K. Jones, Professor Emerita, University of Virginia

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Mr. G. Dean Clubb, Private Consultant

Dr. Stephen E. Cross, Georgia Institute of

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Mr. Robert M. Stein, Private Consultant

Gen Larry D. Welch, USAF (Ret.), Institute for Defense Analyses

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Maj Gen Paul D. Nielsen, PhD (USAF(Ret.)),
Software Engineering Institute

Mr. Michael D. Rich, Rand Corporation

Dr. Ralph D. Semmel, JHU Applied Physics

<p>Technology</p> <p>Mr. Christopher W. Day, Terremark Ms. Lynn A. Dugle, Raytheon Company Dr. Eric D. Evans, MIT Lincoln Laboratory ADM William J. Fallon, USN (Ret.), Private Consultant Dr. Kenneth M. Ford, Institute for Human Machine Cognition Hon. Jacques S. Gansler, University of Maryland Mr. James R. Gosler, Private Consultant Mr. Al Grasso, Mitre Corporation</p> <p><u>NON-VOTING MEMBERS</u></p> <p>Mr. George Singley , Army Science Board Mr. John Goodman, Defense Business Board Dr. Eliahu Niewood, Air Force Scientific Advisory Board Mr. John Hamre, Defense Policy Board Dr. Wayne Lednar & Dr. Gregory Poland, Defense Health Board (acting) Dr. John Sommerer, Naval Research Advisory Committee</p>	<p>Laboratory</p> <p>Mr. James D. Shields, Charles Stark Draper Laboratory VADM Edward Straw, USN (Ret.), Private Consultant Dr. James A. Tegnalia, Private Consultant Mr. David M. Van Buren, L-3 Communications Mr. Lou Von Thaer, Private Consultant Dr. Robert L. Wisnieff, IBM</p>
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