

2004 Current Fiscal Year Report: U.S. Air Force Scientific Advisory Board

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1. Department or Agency	2. Fiscal Year
Department of Defense	2004
3. Committee or Subcommittee	3b. GSA Committee No.
U.S. Air Force Scientific Advisory Board	439

4. Is this New During Fiscal Year?	5. Current Charter	6. Expected Renewal Date	7. Expected Term Date
No	02/28/2004	02/28/2006	

8a. Was Terminated During FiscalYear?	8b. Specific Termination Authority	8c. Actual Term Date
No	AGEN	

9. Agency Recommendation for Next FiscalYear	10a. Legislation Req to Terminate?	10b. Legislation Pending?
Continue	No	

11. Establishment Authority	Agency Authority		
12. Specific Establishment Authority	13. Effective Date	14. Committee Type	14c. Presidential?
AGEN	02/19/1946	Continuing	No

15. Description of Committee Scientific Technical Program Advisory Board

16a. Total Number of Reports No Reports for this FiscalYear

17a. Open 0 **17b. Closed** 24 **17c. Partially Closed** 1 **Other Activities** 0 **17d. Total** 25

Meetings and Dates

Purpose	Start	End
Brief Air Force and Joint Staff on the results of the Unmanned Aerial Vehicles Study	10/01/2003	10/01/2003
Assess the quality and long term relevance of the Air Force Research Laboratory (AFRL) munitions research	10/14/2003	10/17/2003

The Air Force Command & Control, Intelligence, Surveillance and Reconnaissance Center (AFC2ISRC) Advisory Committee to brief the Commander of AFC2ISRC	10/15/2003 - 10/15/2003
Assess the quality and long-term relevance on Human Effectiveness research	10/20/2003 - 10/24/2003
Brief the Air Force Chief of Staff on the outcome of the Technology for Machine-to-Machine Integration Study	10/22/2003 - 10/22/2003
Assess the quality and long-term relevance of Air Force Research Laboratory (AFRL) Materials research	10/27/2003 - 10/31/2003
Assess the quality and long-term relevance of Air Vehicle Research	11/03/2003 - 11/07/2003
Assess the quality and long-term relevance of programs for the 311th Human Systems Wing Advisory Committee	11/05/2003 - 11/06/2003
Advise the Commander, Air Force Special Operations Command (AFSOC), on AFSOC's technical focus and capabilities	11/12/2003 - 11/14/2003
Assess the quality and long-term relevance of Information Technology research	11/17/2003 - 11/21/2003
Brief SAF/USI on the results of the Technology for Machine-to-Machine ISR Integration Study	11/18/2003 - 11/18/2003
Brief AF/XOS on the results of the Technology for Machine-to-Machine ISR Integration Study	11/19/2003 - 11/19/2003
Brief J8 on the results of the Technology for Machine-to-Machine ISR Integration Study	11/20/2003 - 11/20/2003
Brief SAF/AQ on the results of the Technology for Machine-to-Machine ISR Integration Study	11/20/2003 - 11/20/2003
Scientific Advisory Board leadership (panel chairs) to discuss Science & Technology (S&T) reviews	12/04/2003 - 12/04/2003
Advise the Commander of the 1st ACC Advisory Board	01/06/2004 - 01/07/2004
Provide advice to the Secretary of the Air Force on short and long-term policy and strategy issues for the Air Force	01/26/2004 - 01/30/2004
The Air Force Command & Control, Intelligence, Surveillance and Reconnaissance Center (AFC2ISRC) Advisory Committee to brief the AFC2ISRC Commander	02/19/2004 - 02/19/2004
Give consensus advice to the Commander of the 2nd ACC Advisory Panel	02/26/2004 - 02/28/2004
Conduct a mid term review of the forthcoming Quick Look Study	03/04/2004 - 03/05/2004
Scientific Advisory Board (SAB) to provide advice on Space Systems	04/01/2004 - 04/02/2004

Scientific Advisory Board (SAB) leadership
 (Senior Review Group) to review the progress of the SAB's ongoing study efforts 04/14/2004 - 04/14/2004

The Scientific Advisory Board and ACC
 Advisory Group to give consensus advice to the ACC Commander 04/16/2004 - 04/16/2004

Develop recommendations for the Air Force
 from the FY04 studies 06/21/2004 - 07/01/2004

Review the curriculum and programs of the
 Center for Systems Engineering 09/08/2004 - 09/08/2004

Number of Committee Meetings Listed: 25

	Current FY	Next FY
18a(1). Personnel Pmts to Non-Federal Members	\$344,000.00	\$344,000.00
18a(2). Personnel Pmts to Federal Members	\$0.00	\$0.00
18a(3). Personnel Pmts to Federal Staff	\$428,000.00	\$428,000.00
18a(4). Personnel Pmts to Non-Member Consultants	\$0.00	\$0.00
18b(1). Travel and Per Diem to Non-Federal Members	\$357,000.00	\$357,000.00
18b(2). Travel and Per Diem to Federal Members	\$81,000.00	\$81,000.00
18b(3). Travel and Per Diem to Federal Staff	\$57,000.00	\$57,000.00
18b(4). Travel and Per Diem to Non-member Consultants	\$174,000.00	\$174,000.00
18c. Administrative Costs (FRNs, contractor support, In-person/hybrid/virtual meetings)	\$0.00	\$0.00

18d. Other (all other funds not captured by any other cost category)	\$998,000.00	\$998,000.00
18e. Total Costs	\$2,439,000.00	\$2,439,000.00
19. Federal Staff Support Years (FTE)	7.00	7.00

20a. How does the Committee accomplish its purpose?

The Scientific Advisory Board (SAB) fulfills several critical functions for the Air Force: 1) provides independent technical advice to Air Force (AF) leadership, 2) studies topics deemed critical by the Secretary and Chief of Staff of the Air Force, 3) recommends applications of technology to improve AF capabilities, 4) provides an independent review of the quality and relevance of AF Science and Technology programs. These are accomplished through study panels, advisory groups, and review panels. The SAB's major FY 2004 study effort was the three summer studies which were drafted during a two-week session in June following several months of fact finding. The three topics were Networking to Enable Coalition Operations, Operationalizing Space Launch, and Human-System Integration in AF Weapon Systems Development and Acquisition. Short-term (quick look) studies for FY 2004 include High Power Microwaves (HPM) and review of the academic programs of the Air Force Institute of Technology's Center for Systems Engineering. The SAB reviews the entirety of the Air Force Research Laboratory on a two-year cycle. During FY 2004, the SAB reviewed Directorates of Air Vehicles, Human Effectiveness, Information, Materiels, Munitions and the Air Force Office of Scientific Research (AFOSR).

20b. How does the Committee balance its membership?

A major personnel challenge for the SAB is covering the numerous technology areas required by the Air Force to maintain technological superiority. The technical interests of the 50 members are tracked in 26 categories. For FY 2004, the largest concentration was in the areas of sensors, physical sciences, systems engineering, command and control, aero engineering, and low observables. Effort is also made to balance board membership in terms of sector (academia, industry, and major scientific institutions), previous government experience, and other demographics.

20c. How frequent and relevant are the Committee Meetings?

Panels for a major study generally require several meetings for information gathering in addition to a two-week meeting to deliberate and prepare the report. Reviews generally require a week at the directorate being reviewed and may be preceded by visits to geographically separate units. Advisory groups meet one or two times each year. The entire board meets in the Fall and Spring timeframe.

20d. Why can't the advice or information this committee provides be obtained elsewhere?

The Scientific Advisory Group (SAB predecessor) was created to assist, strengthen, and supplement - but not duplicate - the work of the Air Force science, technology, and acquisition community. Today, the Assistant Secretary of the Air Force for Acquisition and the Air Force Materiel Command are the leaders of this community, and thus derive great benefit from SAB activities. The SAB allows the Air Force to obtain independent assessments on key topics from prominent individuals that

cannot be obtained by other means. When a study involves another agency, the SAB works with the other agency to determine appropriate roles for each, thus avoiding duplication.

20e. Why is it necessary to close and/or partially closed committee meetings?

At the FY 2004 SAB meetings, classified defense information and/or contractor propriety information was discussed resulting in the need for closed meetings. In each case, a determination was made that the closure was required and in accordance with subparagraph (1) of section 552b{c} of Title 5, United States Code.

21. Remarks

Three FY 2004 reports are pending release: "Networking to Enable Coalition Operations," "Operationalizing Space Launch," and "Human-System Integration in Air Force Weapon Systems Development and Acquisition."

Designated Federal Officer

Charles D. Bowker Executive Director, HQ
 USAF/SB, 1180 Air Force Pentagon, Washington,
 DC 20330-1180

Committee Members	Start	End	Occupation	Member Designation
Albertine, John	10/01/2002	09/30/2006	Private Consultant	Special Government Employee (SGE) Member
Austin, Wanda	10/01/2002	09/30/2006	The Aerospace Corp.	Special Government Employee (SGE) Member
Beason, J.	10/01/2003	09/30/2007	Los Alamos National Laboratory	Special Government Employee (SGE) Member

Bien, Lyle	10/01/2002	09/30/2006	Teledesic LLC, Vice President, Government Programs	Special Government Employee (SGE) Member
Bonds, Timothy	10/01/2003	09/30/2007	The RAND Corporation	Special Government Employee (SGE) Member
Byer, Robert	10/01/2002	09/30/2006	Stanford University, Applied Physics Professor	Special Government Employee (SGE) Member
Cross, Stephen	10/01/2002	09/30/2006	Director, Georgia Tech Research Institute	Special Government Employee (SGE) Member
Denman, Gary	10/01/2000	09/30/2004	Private Consultant	Special Government Employee (SGE) Member
Dougherty, Llewellyn	10/01/2002	09/30/2006	Raytheon Systems Company	Special Government Employee (SGE) Member
Endsley, Mica	10/01/2003	09/30/2007	SA Technologies	Special Government Employee (SGE) Member
Fouse, Scott	10/01/2003	09/30/2007	ISX Corp	Special Government Employee (SGE) Member
Fraser, Hamish	10/01/2002	09/30/2006	Ohio State University, Ohio Regents Eminent Scholar and Professor	Special Government Employee (SGE) Member
Gallimore, Alec	10/01/2001	09/30/2005	University of Michigan, Associate Professor of Aerospace Engineering	Special Government Employee (SGE) Member
Galloway, Kenneth	10/01/2003	09/30/2007	Vanderbilt University	Special Government Employee (SGE) Member

Garvey, Thomas	10/01/2000	09/30/2004	SRI International, Director Intelligent Operations Management Group	Special Government Employee (SGE) Member
Hastings, Daniel	10/01/2000	09/30/2007	MIT	Special Government Employee (SGE) Member
Held, Daniel	10/01/2001	09/30/2005	Northrop Grumman	Special Government Employee (SGE) Member
Hoff, Wallace	10/01/2002	09/30/2006	Private Consultant	Special Government Employee (SGE) Member
Hunt, Brian	10/01/2001	09/30/2004	Private Consultant	Special Government Employee (SGE) Member
Johnson, Ray	10/01/2001	09/30/2005	Science Applications International Corporation, SAIC	Special Government Employee (SGE) Member
Karagozian, Ann	10/01/2002	09/30/2006	University of California-Los Angeles, Department of Mechanical and Aerospace Engineering	Special Government Employee (SGE) Member
Knauss, Wolfgang	10/01/2003	09/30/2007	Calif. Institute of Technology	Special Government Employee (SGE) Member
Krassner, Jerry	10/01/2002	09/30/2006	Dynamics Technology, Inc., Vice President and Business Area Leader	Special Government Employee (SGE) Member
Lewis, Mark	10/01/2000	09/30/2004	University of Maryland	Special Government Employee (SGE) Member

Luzzi, David	10/01/2003	09/30/2007	University of Pennsylvania	Special Government Employee (SGE) Member
MacCormack, Robert	10/01/2001	09/30/2005	Stanford University, Professor, Aeronautics and Astronautics	Special Government Employee (SGE) Member
Marquet, Louis	10/01/2003	09/30/2007	Marquet Consulting	Special Government Employee (SGE) Member
Metzger, Louis	10/01/2001	09/30/2005	The MITRE Corporation	Special Government Employee (SGE) Member
Muellner, George	10/01/2000	09/30/2004	The Boeing Company	Special Government Employee (SGE) Member
Murphy, Robin	10/01/2001	09/30/2005	University of South Florida, Associate Professor, Department of Computer Science and Engineering and Department of Psychology	Special Government Employee (SGE) Member
Murray, Dennis	10/01/2001	09/30/2005	Science Applications International Corporation, SAIC	Special Government Employee (SGE) Member
Murray, Richard	10/01/2002	09/30/2006	Caltech, Chair, Division of Engineering and Applied Science	Special Government Employee (SGE) Member
Nelson, Eric	10/01/2000	09/30/2004	Private Consultant	Special Government Employee (SGE) Member
O'Neill, Malcolm	10/01/2001	09/30/2005	Lockheed Martin Corporation	Special Government Employee (SGE) Member

Peterson, James	10/01/2003	09/30/2007	Integrated Strategic Solutions, Inc	Special Government Employee (SGE) Member
Sastry, Sankar	10/01/2002	09/30/2006	University of California, Berkeley, Chair, Electrical Engineering and Computer Sciences	Special Government Employee (SGE) Member
Schue, Howard	10/01/2002	09/30/2006	Technology Strategies & Alliances Corp., Technology Strategies & Alliances	Special Government Employee (SGE) Member
Selden, Robert	10/01/1998	09/30/2005	Private Consultant	Special Government Employee (SGE) Member
Shyu, Heidi	10/01/2000	09/30/2007	Raytheon Electronic Systems	Special Government Employee (SGE) Member
Soucy, Phillip	10/01/2003	09/30/2007	Modern Technology Solution, The	Special Government Employee (SGE) Member
Swartout, William	10/01/2003	09/30/2007	University of Southern California	Special Government Employee (SGE) Member
Wilson, Barbara	10/01/2003	09/30/2007	Jet Propulsion Laboratory	Special Government Employee (SGE) Member
Wong, Theodore	10/01/2000	09/30/2004	Private Consultant	Special Government Employee (SGE) Member
Worch, Peter	10/01/2003	09/30/2007	Private Consultant	Special Government Employee (SGE) Member

Zacharias,
Greg

10/01/2001 09/30/2005

Charles River
Analytics

Special
Government
Employee
(SGE)
Member

Number of Committee Members Listed: 45

Narrative Description

Scientific Advisory Board (SAB) studies are undertaken on topics approved by the Secretary and Chief of the Air Force. Thus, these are topics the Senior Leadership sees as essential to carry out the Air Force mission in the years ahead. SAB recommendations cover both operational concepts and technologies to support the warfighter - both essential elements of the ongoing USAF transformation. The SAB supports the maintenance of superior science and technology in the Air Force Research Laboratory through quality reviews which assess the quality and relevance to the Air Force mission of research supported by AFRL. Advice given to commanders likewise addresses topics of concern to the commanders as they strive to execute their mission.

What are the most significant program outcomes associated with this committee?

Checked if
Applies

- | | |
|---------------------------------------------------|-------------------------------------|
| Improvements to health or safety | <input type="checkbox"/> |
| Trust in government | <input type="checkbox"/> |
| Major policy changes | <input checked="" type="checkbox"/> |
| Advance in scientific research | <input type="checkbox"/> |
| Effective grant making | <input type="checkbox"/> |
| Improved service delivery | <input type="checkbox"/> |
| Increased customer satisfaction | <input type="checkbox"/> |
| Implementation of laws or regulatory requirements | <input type="checkbox"/> |
| Other | <input type="checkbox"/> |

Outcome Comments

NA

What are the cost savings associated with this committee?

Checked if Applies

- None
- Unable to Determine
- Under \$100,000
- \$100,000 - \$500,000
- \$500,001 - \$1,000,000
- \$1,000,001 - \$5,000,000
- \$5,000,001 - \$10,000,000
- Over \$10,000,000
- Cost Savings Other

Cost Savings Comments

NA

What is the approximate Number of recommendations produced by this committee for the life of the committee?

54

Number of Recommendations Comments

NA

What is the approximate Percentage of these recommendations that have been or will be Fully implemented by the agency?

10%

% of Recommendations Fully Implemented Comments

Air Force senior leadership was outbriefed the study results in August 2004. Although the recommendations were warmly received, the percentage above is only an estimate; it's too early to make a highly accurate estimate of the number of recommendations to be implemented.

What is the approximate Percentage of these recommendations that have been or will be Partially implemented by the agency?

49%

% of Recommendations Partially Implemented Comments

Air Force senior leadership was outbriefed the study results in August 2004. Although the recommendations were warmly received, the percentage above is only an estimate; it's too early to make a highly accurate estimate of the number of recommendations to be implemented.

Does the agency provide the committee with feedback regarding actions taken to implement recommendations or advice offered?

Yes No Not Applicable

Agency Feedback Comments

The Secretary and Chief of Staff of the Air Force provide direct feedback to the USAF Scientific Advisory Board (SAB) when outbriefed and SAB advice given. Further, the Principle Deputy, Office of the Assistant Secretary of the Air Force for Acquisition provides feedback at the annual S&T Kickoff, Fall and Spring Board meetings. Additionally, the Air Force Research Laboratory Commander also provides feedback when outbriefed and at the annual S&T Kickoff meeting. The Major Command Commanders provide feedback to the Advisory Groups at scheduled meetings.

What other actions has the agency taken as a result of the committee's advice or recommendation?

Checked if Applies

Reorganized Priorities	<input checked="" type="checkbox"/>
Reallocated resources	<input checked="" type="checkbox"/>
Issued new regulation	<input type="checkbox"/>
Proposed legislation	<input type="checkbox"/>
Approved grants or other payments	<input checked="" type="checkbox"/>
Other	<input type="checkbox"/>

Action Comments

SAB recommendations provide/could provide a roadmap for decision makers to follow when making R&D/S&T funding allocations.

Is the Committee engaged in the review of applications for grants?

No

Grant Review Comments

NA

How is access provided to the information for the Committee's documentation?

Checked if Applies

- Contact DFO
- Online Agency Web Site
- Online Committee Web Site
- Online GSA FACA Web Site
- Publications
- Other

Access Comments

NA