

## 2004 Current Fiscal Year Report: Biological and Physical Research Advisory Committee

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### 1. Department or Agency

National Aeronautics and Space  
Administration

### 2. Fiscal Year

2004

### 3. Committee or Subcommittee

Biological and Physical Research  
Advisory Committee

### 3b. GSA

### Committee No.

1067

### 4. Is this New During Fiscal Year?

5. Current Charter	6. Expected Renewal Date	7. Expected Term Date
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No	05/01/2003	05/01/2005	11/05/2004
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### 8a. Was Terminated During Fiscal Year?

Yes

### 8b. Specific Termination Authority

### 8c. Actual Term Date

11/05/2004

### 9. Agency Recommendation for Next Fiscal Year

Terminate

### 10a. Legislation Req to Terminate?

No

### 10b. Legislation Pending?

### 11. Establishment Authority

Agency Authority

### 12. Specific Establishment Authority

Pub.L.No.85-568, As  
Amended, Section 203(c)(7)

### 13. Effective Date

03/07/1994

### 14. Committee Type

Ad hoc

### 14c. Presidential?

No

### 15. Description of Committee

Scientific Technical Program  
Advisory Board

### 16a. Total Number of Reports

3

### 16b. Report Date

Report Title

10/24/2003	Biological & Physical Research Advisory Committee Report
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02/13/2004	Biological & Physical Research Advisory Committee Report
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05/21/2004 Biological & Physical Research  
Advisory Committee Report

**Number of Committee Reports Listed: 3**

**17a.** 7 **17b. Closed** 0 **17c. Partially Closed** 0 **Other Activities** 0 **17d. Total** 7  
**Open**

**Meetings and Dates**

Purpose	Start	End
Research Partnership Subcommittee Meeting	10/22/2003	10/22/2003
Biological and Physical Research Advisory Committee Meeting	10/23/2003	10/24/2003
Biological and Physical Research Advisory Committee Meeting	02/12/2004	02/13/2004
Research Partnership Subcommittee Meeting	04/05/2004	04/05/2004
Biological and Physical Research Advisory Committee Meeting	05/20/2004	05/21/2004
Space Station Utilization Advisory Subcommittee Meeting	07/28/2004	07/30/2004
Biological and Physical Research Advisory Committee Telecon	08/13/2004	08/13/2004

**Number of Committee Meetings Listed: 7**

	Current FY	Next FY
<b>18a(1). Personnel</b>		
<b>Pmts to Non-Federal Members</b>	\$0.00	\$0.00
<b>18a(2). Personnel</b>		
<b>Pmts to Federal Members</b>	\$0.00	\$0.00
<b>18a(3). Personnel</b>		
<b>Pmts to Federal Staff</b>	\$120,666.00	\$127,906.00
<b>18a(4). Personnel</b>		
<b>Pmts to Non-Member Consultants</b>	\$0.00	\$0.00
<b>18b(1). Travel and Per</b>		
<b>Diem to Non-Federal Members</b>	\$48,129.00	\$51,017.00
<b>18b(2). Travel and Per</b>		
<b>Diem to Federal Members</b>	\$0.00	\$0.00
<b>18b(3). Travel and Per</b>		
<b>Diem to Federal Staff</b>	\$2,747.00	\$2,912.00

<b>18b(4). Travel and Per</b>		
<b>Diem to Non-member</b>	\$0.00	\$0.00
<b>Consultants</b>		
<b>18c. Other(rents,user</b>		
<b>charges, graphics,</b>	\$59,594.00	\$63,170.00
<b>printing, mail, etc.)</b>		
<b>18d. Total</b>	\$231,136.00	\$245,005.00
<b>19. Federal Staff</b>		
<b>Support Years (FTE)</b>	1.58	1.73

**20a. How does the Committee accomplish its purpose?**

The BPRAC provides NASA with expert technical and programmatic advice on issues and decisions facing the management of the Office of Biological and Physical Research (OBPR), which on August 1, 2004, as part of the NASA agency transformation, joined the new Exploration Systems Mission Directorate. The committee through its findings and recommendations has had a direct influence on biological and physical research policies and priorities, and has brought forward to the NASA Advisory Council issues of major importance to the civil space program, such as the optimal use of the International Space Station, and crew health and safety. As the sole NASA advisory body on physical and biological research, the committee's advice represents the views of the national research community in areas of vital importance to the future of space exploration. The committee has oversight of programs that deal with basic research, applied research, technology development, and commercialization. The issues the committee deals with impact future NASA mission readiness in the areas of life support systems, human adaptation to the space environment, fire safety, availability of automated technologies that increase mission efficiency, and International

Space Station utilization. The committee also assesses OBPR program performance as part of the agency compliance with the Government Performance and Results Act (GPRA).

**20b. How does the Committee balance its membership?**

The members of Committee and its subcommittees are drawn from a cross-section of the communities in biological and biomedical sciences, the physical sciences, engineering, and research/technology commercialization. Professional recognition and stature is a critical factor in selecting members. Members are also selected to effectively represent a wide range cultural perspectives and backgrounds, in order to clearly capture the breadth of perspectives expected of a national investment.

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

The BPRAC generally meets three times in a calendar year. The subcommittees met two times during the fiscal year in conjunction with the BPRAC. These meetings are required if the Biological and Physical Research Advisory Committee and its subcommittees are to give timely and relevant advice concerning the evolving issues and programs connected with the BPRAC.

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

No other NASA advisory group contains the spectrum of expertise required to span the breath of BPRAC research programs. Advice from the community served by BPRAC is essential in matters related to defining the relative importance of the various thrusts in competition for funding and this Committee is the sole source of such

advice. No other group of experts has the insight and experience to provide the same level of advice to the Agency concerning life and microgravity sciences and applications especially relative to international partners and development of payloads on the International Space Station.

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

There were no closed or partially closed meetings of this committee.

**21. Remarks**

**Designated Federal Officer**

Terri Lomax Executive Secretary, BPRAC

<b>Committee Members</b>	<b>Start</b>	<b>End</b>	<b>Occupation</b>	<b>Member Designation</b>
Anderson, Timothy	10/01/2004	09/30/2006	University of Florida	Special Government Employee (SGE) Member
Askew, Raymond	05/02/2003	05/02/2005	Texas A&M University	Special Government Employee (SGE) Member
Augenlicht, Len	10/01/2004	09/30/2006	Albert Einstein Cancer Center	Special Government Employee (SGE) Member
Austin, Larry	10/01/2004	09/30/2006	Starwalker Group	Special Government Employee (SGE) Member
Baldwin, Kenneth	10/01/2004	09/30/2006	University of California	Special Government Employee (SGE) Member
Bigelow, Nicholas	05/02/2003	05/02/2005	University of Rochester	Special Government Employee (SGE) Member
Billings, Linda	10/01/2004	09/30/2006	SETI Institute	Special Government Employee (SGE) Member

Borer, Jeffrey	05/02/2003	05/02/2005	Cornell University Medical Center	Special Government Employee (SGE) Member
Bula, Raymond	05/02/2003	05/02/2005	University of Wisconsin, Madison	Special Government Employee (SGE) Member
Crouch, Roger	10/01/2003	09/30/2005	NASA HQs	Special Government Employee (SGE) Member
Curbeam, Robert	10/01/2004	09/30/2006		Special Government Employee (SGE) Member
Daley, Thomas	05/02/2003	05/02/2005	Philadelphia Naval Business Center	Special Government Employee (SGE) Member
Day, Stephen	10/01/2003	09/30/2005		Special Government Employee (SGE) Member
Doarn, Charles	10/01/2003	09/30/2005	University of Cincinnati	Special Government Employee (SGE) Member
Duke, Michael	10/01/2004	09/30/2006	Colorado School of Mines	Special Government Employee (SGE) Member
Faeth, Gerard	05/02/2003	05/02/2005	University of Michigan	Special Government Employee (SGE) Member
Fuller, Charles	10/01/2004	09/30/2006	University of California	Special Government Employee (SGE) Member
Gross, Leroy	05/02/2003	05/02/2005	Veterans Health Administration	Special Government Employee (SGE) Member
Holstein, Gay	10/01/2003	09/30/2005	Mount Sinai School of Medicine	Special Government Employee (SGE) Member
Jacox, Michael	10/01/2004	09/30/2006	StarVision Technology, Inc.	Special Government Employee (SGE) Member
Kanas, Nick	10/01/2003	09/30/2005	VA Medical Center	Special Government Employee (SGE) Member

Kronenberg, Amy	10/01/2004	09/30/2006	Lawrence Berkeley Laboratory	Special Government Employee (SGE) Member
Lahey, Richard	10/01/2004	09/30/2006	Rensselaer Polytechnic Institute	Special Government Employee (SGE) Member
McDonald, Jay	10/01/2004	09/30/2006	University of Alabama at Birmingham	Special Government Employee (SGE) Member
Merrell, Ronald	05/02/2003	05/02/2005	Yale University	Special Government Employee (SGE) Member
Musgrave, Mary	05/02/2003	05/02/2005	University of Massachusetts	Special Government Employee (SGE) Member
Nygren, Richard	10/01/2004	09/30/2006	Lyndon B. Johnson Space Center	Special Government Employee (SGE) Member
Oman, Charles	10/01/2003	09/30/2005	Massachusetts Institute of Technology	Special Government Employee (SGE) Member
Overfelt, Tony	10/01/2003	09/30/2005	Auburn University	Special Government Employee (SGE) Member
Smylie, Robert	10/01/2004	09/30/2006		Special Government Employee (SGE) Member
Solomon, Stephen	10/01/2004	09/30/2006		Special Government Employee (SGE) Member
Spaulding, Glenn	10/01/2003	09/30/2005	Clear Lake Medical Foundation	Special Government Employee (SGE) Member
Tapley, Byron	10/01/2003	09/30/2005	University of Texas at Austin	Special Government Employee (SGE) Member
Wang, Eugenia	10/01/2004	09/30/2006	University of Louisville School of Medicine	Special Government Employee (SGE) Member

**Number of Committee Members Listed: 34**

## Narrative Description

The BPRAC provides NASA with expert technical and programmatic advice on issues and decisions facing the management of the Office of Biological and Physical Research (OBPR). The committee through its findings and recommendations has had a direct influence on the policies and priorities of the OBPR, and has brought forward to the NASA Advisory Council issues of major importance to the civil space program, such as the optimal use of the International Space Station, and crew health and safety. As the sole NASA advisory body on physical and biological research, the committee's advice represents the views of the national research community in areas of vital importance to the future of space exploration. The committee has oversight of programs that deal with basic research, applied research, technology development, and commercialization. The issues the committee deals with impact future NASA mission readiness in the areas of life support systems, human adaptation to the space environment, fire safety, availability of automated technologies that increase mission efficiency, and International Space Station utilization. The committee also assesses OBPR program performance as part of the agency compliance with the Government Performance and Results Act (GPRA).

## 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 type="checkbox"/>
Advance in scientific research	<input checked="" type="checkbox"/>
Effective grant making	<input checked="" type="checkbox"/>
Improved service delivery	<input type="checkbox"/>
Increased customer satisfaction	<input checked="" 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                       | <input type="checkbox"/>            |
| Unable to Determine        | <input checked="" type="checkbox"/> |
| Under \$100,000            | <input type="checkbox"/>            |
| \$100,000 - \$500,000      | <input type="checkbox"/>            |
| \$500,001 - \$1,000,000    | <input type="checkbox"/>            |
| \$1,000,001 - \$5,000,000  | <input type="checkbox"/>            |
| \$5,000,001 - \$10,000,000 | <input type="checkbox"/>            |
| Over \$10,000,000          | <input type="checkbox"/>            |
| Cost Savings Other         | <input type="checkbox"/>            |

**Cost Savings Comments**

NA

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

10

**Number of Recommendations Comments**

NA

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

90%

**% of Recommendations Fully Implemented Comments**

NA

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

5%

**% of Recommendations Partially Implemented Comments**

NA

**Does the agency provide the committee with feedback regarding actions taken to**

**implement recommendations or advice offered?**

Yes ☒ No ☐ Not Applicable ☐

**Agency Feedback Comments**

Reports on Agency actions at next meeting.

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

Checked if Applies

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

**Action Comments**

Utilize expert scientific advice to strengthen approaches to meet mission objectives.

**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	<input type="checkbox"/>
Online Agency Web Site	<input type="checkbox"/>
Online Committee Web Site	<input type="checkbox"/>
Online GSA FACA Web Site	<input checked="" type="checkbox"/>
Publications	<input type="checkbox"/>
Other	<input checked="" type="checkbox"/>

**Access Comments**

Contact Advisory Committee Specialist or Executive Secretary at Agency. Directorate web site has link for advisory committee information.