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

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3. 3.			2. F	Fiscal Year			
National Aeronautics and Space Administration			200)4			
3. Committee or Subcommittee				GSA mmittee No.			
Biological and Physical Research Advisory Committee				106	67		
4. Is this N	ew During	15. Cu	rrent	6. Ex	cpected		7. Expected
Fiscal Year		Char			ewal Date		Term Date
No	· •				1/2005		11/05/2004
140		00/01					11/00/2004
8a. Was Te	rminated	Durin	a	Speci ninati		8	Bc. Actual
FiscalYear	?		_	nority		7	Term Date
Yes			Auu	iority		1	1/05/2004
9. Agency	adation fo	u Nlassi	10a.	Legi	slation		0b.
Recommer FiscalYear		r nexi	Req	to Te	erminate?	?	egislation
						Г	Pending?
Terminate No							
	- I 4 A -	.41	_		A (1		
Terminate 11. Establis	shment Au	uthori	ty Ag	ency /	•		
		uthori	ty Ag	•	14.		14c.
11. Establis	С		ty Ago	•	14. Commit	ee	14c. Presidential?
11. Establis 12. Specific Establishm	c nent Autho		ty Ag	•	14.	ee	
11. Establis	c nent Autho 5-568, As	ority	ty Ago 13. Effect Date	etive	14. Commit	ee	
11. Establis 12. Specific Establishm Pub.L.No.8	c nent Autho 5-568, As Section 203	ority 3(c)(7)	ty Age 13. Effect Date	e tive 7/1994	14. Commit Type Ad hoc		Presidential?
11. Establishment Pub.L.No.8 Amended, Stablishment Pub.L.No.8	c nent Autho 5-568, As Section 203 otion of Co	ority 3(c)(7)	ty Age 13. Effect Date	e tive 7/1994	14. Commit Type Ad hoc		Presidential?
11. Establishment Pub.L.No.8 Amended, St. Description	c nent Autho 5-568, As Section 203 otion of Co pard	ority 3(c)(7) ommit	ty Age 13. Effect Date 03/07 tee S	e tive 7/1994	14. Commit Type Ad hoc		Presidential?
11. Establishment Pub.L.No.8 Amended, Stablishment Advisory Bo	c nent Autho 5-568, As Section 203 otion of Co pard Number of	ority 3(c)(7) ommit	ty Age 13. Effect Date 03/07 tee S	e tive 7/1994	14. Commit Type Ad hoc		Presidential?
11. Establishment Pub.L.No.8 Amended, Stablishment Advisory Both 16a. Total In 16b. Report	c nent Author 5-568, As Section 203 otion of Co oard Number of Report Tit	Ority 3(c)(7) Ommit f Repo	ty Age 13. Effect Date 03/07 tee S orts 3	cientif	14. Commit Type Ad hoc fic Techni		Presidential?

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 Subcommitte 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
18a(1). Personnel		
Pmts to Non-Federal	\$0.00	\$0.00
Members		
18a(2). Personnel		
Pmts to Federal	\$0.00	\$0.00
Members		
18a(3). Personnel	\$120,666.00\$	\$127 006 00
Pmts to Federal Staff	\$120,000.003	\$12 <i>1</i> ,900.00
18a(4). Personnel		
Pmts to Non-Member	\$0.00	\$0.00
Consultants		
18b(1). Travel and Per		
Diem to Non-Federal	\$48,129.00	\$51,017.00
Members		
18b(2). Travel and Per		
Diem to Federal	\$0.00	\$0.00
Members		
18b(3). Travel and Per	\$2,747.00	\$2,912.00
Diem to Federal Staff	Ψ2,141.00	ΨΖ,31Ζ.00

18b(4). Travel and Per

Diem to Non-member \$0.00 \$0.00

Consultants

18c. Other(rents,user

charges, graphics, \$59,594.00 \$63,170.00

printing, mail, etc.)

18d. Total \$231,136.00 \$245,005.00

19. Federal Staff

Support Years (FTE)

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 Govenrment 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

			•	
Committee Members	Start	End	Occupation	Member Designation
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 Govenrment Performance and Results Act (GPRA).

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

	Checked if	
	Applies	
Improvements to health or safety		
Trust in government		
Major policy changes		
Advance in scientific research		✓
Effective grant making		✓
Improved service delivery		
Increased customer satisfaction		✓
Implementation of laws or regulatory		
requirements		
Other		

Outcome Comments

What are the cost savings associated with t	his 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 recommendation of the life of the committee?	nendations produced by this committee
Number of Recommendations Comments NA	
What is the approximate <u>Percentage</u> of thes will be <u>Fully</u> implemented by the agency? 90%	e recommendations that have been or
% of Recommendations <u>Fully</u> Implemented NA	Comments
What is the approximate <u>Percentage</u> of thes will be <u>Partially</u> implemented by the agency 5%	
% of Recommendations Partially Implement	ed Comments

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

implement recommendations or advice offer	ed?
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	
Reallocated resources	
Issued new regulation	
Proposed legislation	
Approved grants or other payments	
Other	~
Action Comments	
Utilize expert scientific advice to strengthen app	proaches to meet mission objectives.
Is the Committee engaged in the review of a No	pplications for grants?
Grant Review Comments NA	
How is access provided to the information for	or 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

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