

2018 Current Fiscal Year Report: High Energy Physics Advisory Panel

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1. Department or Agency

Department of Energy

2. Fiscal Year

2018

3. Committee or Subcommittee

High Energy Physics Advisory Panel

3b. GSA Committee No.

178

4. Is this New During Fiscal Year?

No

5. Current Charter

08/11/2017

6. Expected Renewal Date

08/11/2019

7. Expected Term Date

8a. Was Terminated During Fiscal Year?

No

8b. Specific Termination Authority

8c. Actual Term Date

9. Agency Recommendation for Next Fiscal Year

Continue

10a. Legislation Req to Terminate?

No

10b. Legislation Pending?

Not Applicable

11. Establishment Authority Agency Authority

12. Specific Establishment Authority

AGENCY

13. Effective Date

01/13/1967

14. Committee Type

Continuing

14c. Presidential?

No

15. Description of Committee Scientific Technical Program Advisory Board

16a. Total Number of Reports

No Reports for this Fiscal Year

17a. Open Meetings 1 17b. Closed Meetings 0 17c. Partially Closed Meetings 0 17d. Total Meetings 1

Meetings and Dates

Purpose	Start	End
The primary purpose of this meeting was to have the HEPAP committee members hear and vote upon two Portfolio Review subpanel reports, the report of the LARGE Hadron Collider subpanel, and the report of the Main Subpanel for Operating Experiments. These two reports were voted upon and approved on condition some final edits of a non-substantial nature be made.	05/14/2018	05/15/2018

Number of Committee Meetings Listed: 1

	Current FY	Next FY
18a(1). Personnel Pmts to Non-Federal Members	\$0.00	\$0.00
18a(2). Personnel Pmts to Federal Members	\$0.00	\$0.00
18a(3). Personnel Pmts to Federal Staff	\$35,000.00	\$35,000.00
18a(4). Personnel Pmts to Non-Member Consultants	\$0.00	\$0.00
18b(1). Travel and Per Diem to Non-Federal Members	\$125,439.00	\$135,000.00
18b(2). Travel and Per Diem to Federal Members	\$0.00	\$0.00
18b(3). Travel and Per Diem to Federal Staff	\$0.00	\$0.00
18b(4). Travel and Per Diem to Non-member Consultants	\$0.00	\$0.00
18c. Other(rents,user charges, graphics, printing, mail, etc.)	\$166,300.00	\$175,000.00

18d. Total	\$326,739.00	\$345,000.00
19. Federal Staff Support Years (FTE)	0.20	0.20

20a. How does the Committee accomplish its purpose?

HEPAP at its meetings reviews the advances and current trends in high energy physics and makes recommendations to the Director, Office of Science (DOE) and the Assistant Director, Mathematical & Physical Sciences Directorate (NSF) regarding strategic positioning of the research program.

20b. How does the Committee balance its membership?

The Panel is selected to maintain an appropriate balance among areas of technical experimental physics, accelerator physics, and general science; various types of institutional affiliation (university, national laboratory); and geographical location. The Panel has been balanced in accordance with requirements of the Federal Advisory Committee Act.

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

The HEPAP meets on average three to four times a year and provides advice and recommendations to the Director of the Office of Science, DOE and the Assistant Director, Mathematical and Physical Sciences Directorate, NSF. The agency provides feedback to the committee at its various meetings where the Associate Director, Office of High Energy Physics (DOE), and the Assistant Director, Mathematical & Physical Sciences Directorate (NSF) give a verbal report to the committee regarding their advice. A recent development as of 2016 is to hold telecon meetings in lieu of face-to-face meetings. This step was taken as a time- and cost-savings measure.

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

The advice of the HEPAP is essential in carrying out the best national program in high energy physics. There is no other advisory committee within the Federal Government which includes sufficient expertise in high energy physics research to provide informed advice in this area of high energy physics research. The requisite knowledge and experience are also not available within DOE or NSF.

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

N/A

21. Remarks

In FY2018 HEPAP held a High Energy Physics Portfolio Review which resulted in two

reports that were not published until November 2018. The two subpanels of non-HEPAP experts held several meetings to execute the portfolio review and these meetings led to additional costs indicated in the category "Est Travel Reimb Non-Fed Members" below.

Designated Federal Officer

John Thomas Boger DFO

Committee Members	Start	End	Occupation	Member Designation
Conrad, Janet	03/26/2018	03/25/2020	Massachusetts Institute of Technology	Special Government Employee (SGE) Member
Cranmer, Kyle	03/26/2016	03/25/2019	New York University, NYC, NY	Special Government Employee (SGE) Member
Godbole, Rohini	03/26/2018	03/25/2020	Indian Institute of Science, Bangalore, India	Representative Member
Habib, Salman	03/26/2016	03/25/2019	Argonne National Laboratory, Lemont, IL	Special Government Employee (SGE) Member
Hewett, JoAnne	03/26/2018	03/25/2020	SLAC National Accelerator Laboratory	Special Government Employee (SGE) Member
Incandela, Joseph	03/26/2018	03/25/2019	University of California, Santa Barbara, CA	Ex Officio Member
Irwin, Kent	03/26/2018	03/25/2020	SLAC National Accelerator Laboratory	Special Government Employee (SGE) Member
Kinoshita, Kay	03/26/2016	03/25/2019	University of Cincinnati, Cincinnati, OH	Special Government Employee (SGE) Member
Larbalestier, David	03/26/2016	03/25/2019	Florida State University, Tallahassee, FL	Special Government Employee (SGE) Member
Lucchesi, Donatella	03/26/2018	03/25/2020	Dipartimento di Fisica e Astronomia "Galileo Galilei", Padova, Italy	Representative Member
Pilat, Fulvia	03/26/2017	03/25/2020	Thomas Jefferson National Accelerator Facility	Special Government Employee (SGE) Member
Roser, Thomas	03/26/2016	03/25/2019	Brookhaven National Laboratory, Upton, NY	Special Government Employee (SGE) Member
Spiropulu, Maria	03/26/2016	03/25/2019	California Institute of Technology, Pasadena, CA	Special Government Employee (SGE) Member
Stubbs, Christopher	03/26/2016	03/25/2019	Harvard University, Cambridge, MA	Special Government Employee (SGE) Member
Syphers, Michael	03/26/2017	03/25/2020	Northern Illinois University	Special Government Employee (SGE) Member
Trodden, Mark	03/26/2016	03/25/2019	University of Pennsylvania, Philadelphia, PA	Special Government Employee (SGE) Member
Wells, James	03/26/2016	03/25/2019	University of Michigan, Ann Arbor, MI	Special Government Employee (SGE) Member
Zeller, GERALYN	03/26/2016	03/25/2019	Fermi National Accelerator Laboratory, Batavia, IL	Special Government Employee (SGE) Member

Number of Committee Members Listed: 18

Narrative Description

HEPAP at its meetings reviews the advances and current trends in high energy physics and makes recommendations to the Director, Office of Science(DOE), and to the Assistant Director, Mathematical & Physical Sciences Directorate of the National Science Foundation (NSF) regarding strategic positioning of the research program including the

possible consideration of major new research projects and construction.

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

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?

522

Number of Recommendations Comments

Since 1968 the High Energy Physics Advisory Panel has issued over 70 reports covering all aspects of the field of High Energy Physics. We estimate that there have been

hundreds of recommendations over the duration of the committee, but do not know the exact number. In FY2018, HEPAP delivered two reports in response to the Portfolio Review Charge and provided recommendations with regards to how to prioritize to the suite of HEP supported experiments.

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

80%

% of Recommendations Fully Implemented Comments

What percentage of all HEPAP recommendations have been fully implemented is difficult to assess. The vast majority of recommendations rest on solid foundations and HEP agrees with these recommendations and attempts to implement them whenever possible within budgetary constraints. Due to an improved FY2018 budget, no recommendations that resulted from the Portfolio Review Charge were implemented.

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

0%

% of Recommendations Partially Implemented Comments

The percentage of partially implemented recommendations is difficult to assess. Most recommendations are either fully implemented or not because the recommendations are based on different funding scenarios. If a recommendation was not implemented it was not necessarily because HEP disagreed with the recommendation. An historical estimate of 20% for partially implemented or not implemented at all is a reasonable estimate. For FY 2018, there were 13 recommendations that prioritized 13 HEP supported experiments. At this point no actions have been taken based on these recommendations.

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 Agency, including NSF, provides feedback to the committee at its various meetings where the Director, Office of Science(DOE),and the Assistant Director, Mathematical & Physical Sciences Directorate (NSF) give verbal reports to the committee regarding their advice and recommendations.

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

Will complete later.

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

N/A