

## 2024 Current Fiscal Year Report: High Energy Physics Advisory Panel

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**1. Department or Agency**

Department of Energy

**2. Fiscal Year**

2024

**3. Committee or Subcommittee**

High Energy Physics Advisory  
Panel

**3b. GSA Committee  
No.**

178

**4. Is this New During Fiscal Year?** **5. Current Charter** **6. Expected Renewal Date** **7. Expected Term Date**

No 08/09/2023 08/09/2025

**8a. Was Terminated During Fiscal Year?** **8b. Specific Termination Authority** **8c. Actual Term Date**

No

**9. Agency Recommendation for Next Fiscal Year** **10a. Legislation Req to Terminate?** **10b. Legislation Pending?**

Continue No Not Applicable

**11. Establishment Authority** Agency Authority

**12. Specific Establishment Authority** **13. Effective Date** **14. Committee Type** **14c. Presidential?**

AGENCY 01/13/1967 Continuing No

**15. Description of Committee** Scientific Technical Program  
Advisory Board

**16a. Total Number of Reports** No Reports for  
this Fiscal Year

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

**Meetings and Dates**

No Meetings

**Current** **Next**  
**FY** **FY**

|   |               |
|---|---------------|
| <b>18a(1). Personnel Pmts to<br/>Non-Federal Members</b>                  | \$0.00 \$0.00 |
| <b>18a(2). Personnel Pmts to<br/>Federal Members</b>                      | \$0.00 \$0.00 |
| <b>18a(3). Personnel Pmts to<br/>Federal Staff</b>                        | \$0.00 \$0.00 |
| <b>18a(4). Personnel Pmts to<br/>Non-Member Consultants</b>               | \$0.00 \$0.00 |
| <b>18b(1). Travel and Per Diem to<br/>Non-Federal Members</b>             | \$0.00 \$0.00 |
| <b>18b(2). Travel and Per Diem to<br/>Federal Members</b>                 | \$0.00 \$0.00 |
| <b>18b(3). Travel and Per Diem to<br/>Federal Staff</b>                   | \$0.00 \$0.00 |
| <b>18b(4). Travel and Per Diem to<br/>Non-member Consultants</b>          | \$0.00 \$0.00 |
| <b>18c. Other(rents,user charges,<br/>graphics, printing, mail, etc.)</b> | \$0.00 \$0.00 |
| <b>18d. Total</b>   | \$0.00 \$0.00 |
| <b>19. Federal Staff Support Years<br/>(FTE)</b>                          | 0.00 0.00     |

**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 two to three 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. The committee meetings can be face-to-face or remote. There were two meetings in 2023. one was hybrid and one was virtual, using zoom.

**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**

## Designated Federal Officer

John Benjamin Kogut DFO

| Committee Members  | Start      | End        | Occupation                           | Member Designation                       |
|--------------------|------------|------------|--------------------------------------|--|
| Abramowicz, Halina | 03/26/2021 | 03/25/2024 | Tel Aviv University                  | Representative Member                    |
| Anchordoqui, Luis  | 03/25/2022 | 03/25/2025 | Lehman College, CUNY, New York 10468 | Special Government Employee (SGE) Member |
| Arce, Ayana        | 03/25/2022 | 03/25/2025 | Duke University                      | Special Government Employee (SGE) Member |
| Bloom, Kenneth     | 03/25/2023 | 03/25/2026 | University of Nebraska-Lincoln       | Special Government Employee (SGE) Member |
| Chivukula, Sekhar  | 03/25/2023 | 03/25/2024 | University of California, San Diego  | Ex Officio Member                        |
| Cousineau, Sarah   | 03/25/2023 | 03/25/2026 | Oak Ridge National Laboratory        | Special Government Employee (SGE) Member |
| Flaugher, Brenna   | 03/26/2021 | 03/25/2024 | Fermilab                             | Special Government Employee (SGE) Member |
| Giblin, Tom        | 03/26/2021 | 03/25/2024 | Kenyon College                       | Special Government Employee (SGE) Member |
| Hewett, JoAnne     | 03/26/2021 | 03/25/2024 | Stanford/SLAC                        | Special Government Employee (SGE) Member |
| Malik, Subhir      | 03/25/2022 | 03/25/2025 | Universidad de Puerto Rico           | Special Government Employee (SGE) Member |
| Maruyama, Reina    | 03/26/2021 | 03/25/2024 | Yale                                 | Special Government Employee (SGE) Member |
| Okada, Yasuhiro    | 03/26/2021 | 03/25/2024 | KEK                                  | Representative Member                    |
| Sanchez, Mayly     | 03/25/2022 | 03/25/2025 | Florida State University             | Special Government Employee (SGE) Member |

|                         |            |            |                                      |  |
|-------------------------|------------|------------|--------------------------------------|--|
| Schellman, Heidi        | 03/26/2021 | 03/25/2024 | Oregon State                         | Special Government Employee (SGE) Member |
| Schleier-Smith, Monika  | 03/25/2023 | 03/25/2026 | Stanford University                  | Special Government Employee (SGE) Member |
| Seidel, Sally           | 03/25/2022 | 03/25/2025 | University of New Mexico             | Special Government Employee (SGE) Member |
| Soares-Santos, Marcelle | 03/25/2023 | 03/25/2026 | University of Michigan               | Special Government Employee (SGE) Member |
| Tanedo, Philip          | 03/25/2023 | 03/25/2026 | University of California, Riverside  | Special Government Employee (SGE) Member |
| Thaler, Jesse           | 03/26/2021 | 03/25/2024 | MIT                                  | Special Government Employee (SGE) Member |
| Toro, Natalia           | 03/25/2023 | 03/25/2025 | SLAC National Accelerator Laboratory | Special Government Employee (SGE) Member |

**Number of Committee Members Listed: 20**

### **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. In the March 7, 2022 HEPAP meeting, the committee was charged with assessing the success of the field's international competitive and collaborative efforts in high energy physics. HEPAP was asked to form a sub-panel to write a report on this topic by mid-September, 2022, which could be discussed at the next HEPAP meeting. The report has been delayed to the winter 2023 HEPAP meeting. At the December 2022 meeting, HEPAP was charged with forming a new P5 panel (Particle Physics Projects Prioritization Panel) to fomulate a new 10-year plan for the domestic high energy physics

program. A chairperson and Deputy Chairperson were chosen, and a committee of 39 members was formed. Townhalls and smaller meetings were organized for the summer and fall of 2023 to collect input in preparation to writing a report that will present the 10-year plan at the winter HEPAP meeting for a discussion and vote.

**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 type="checkbox"/>            |
| Improved service delivery                         | <input checked="" 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                       | <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?**

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 FY2022, HEPAP was charged to carry out a study on the competitiveness and collaborativeness of the HEP program with other international efforts in high energy physics. HEP collaborates with foreign universities and institutions in some cases and competes for talent and research results in others. All of these efforts are subject to this HEPAP charge. The charge requested a report from a HEPAP sub-panel by mid-September of 2022. The report has been delayed to the winter HEPAP meeting 2023. In 2023 HEPAP was charged to produce a new 10- year plan for the High Energy Physics domestic program, by forming a new Particle Physics Projects Prioritization Panel (P5). The report was requested by the winter 2023 HEPAP meeting where it will be discussed and voted upon.

**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. 30 recommendation from the 2021 COV were implemented, in part or in full, by the Office of High Energy Physics.

**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.

**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. The public can obtain agency feedback on the website <http://science.energy.gov/hep/hepap/>

**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 type="checkbox"/>            |
| Other                             | <input checked="" type="checkbox"/> |

**Action Comments**

**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 checked="" type="checkbox"/> |
| Online Agency Web Site    | <input checked="" type="checkbox"/> |
| Online Committee Web Site | <input checked="" type="checkbox"/> |



Online GSA FACA Web Site



Publications



Other



**Access Comments**

N/A