



DEPARTMENT OF PHYSICS AND ASTRONOMY
IRVINE, CALIFORNIA 92697-4575

Phone (949) 824-6911
Fax (949) 824-2174

May 18, 2015

Dr. Patricia M. Dehmer
Acting Director, Office of Science
U.S. Department of Energy

Dr. F. Fleming Crim
Assistant Director
Directorate for Mathematical and Physical Sciences
National Science Foundation

Dear Dr. Dehmer and Dr. Crim:

The Report of the HEPAP Accelerator R&D Subpanel, "Accelerating Discovery: A Strategic Plan for Accelerator R&D in the U.S.", was presented to HEPAP at its meeting on April 6, 2015. This report addresses the request in your letter of June 10, 2014 "that HEPAP set up a subpanel to examine the research in the current HEP accelerator R&D program and to identify the most promising research areas to support the advancement of high energy and particle physics." At the HEPAP meeting, Subpanel Chair Don Hartill reviewed the report and its recommendations, and responded to questions from HEPAP members. Following discussion and deliberation, HEPAP approved the report without objection. HEPAP also separately approved each of the report's recommendations.

A healthy accelerator R&D program both depends upon a healthy accelerator science workforce and contributes to the training of scientists and engineers for the workforce. The Subpanel strongly concurs with reports of other recent HEPAP subpanels that have emphasized the need to recognize and support accelerator science as a *bona fide* academic discipline. For this reason, the Subpanel took special note of the new program in Accelerator Science in the NSF Division of Physics as a significant step. The recent Request for Information "Strengthening U.S. Academic Program in Accelerator Science" from the DOE Office of High Energy Physics is also a positive indication of the importance of accelerator science.

I would like to thank Professor Hartill and all the members of the Subpanel for their dedication in performing this study and producing this report.

With this letter, on behalf of HEPAP, we respectfully submit for your consideration the final report of the Accelerator R&D Subpanel.

Sincerely yours,

Handwritten signature of Donald L. Hartill in black ink.

Donald L. Hartill
Chair, HEPAP Accelerator R&D Subpanel

Handwritten signature of Andrew J. Lankford in black ink.

Andrew J. Lankford
Chair, High Energy Physics Advisory Panel