



Department of Energy  
Office of Science  
Washington, DC 20585

April 16, 2007

Dr. Persis Drell  
Director of Particle and Particle Astrophysics  
Stanford Linear Accelerator Center  
2575 Sand Hill Road  
Menlo Park, California 94025

Dear Dr. Drell:

The annual review of the high energy physics research program of the Stanford Linear Accelerator Center (SLAC) by the Department of Energy (DOE) is scheduled for June 11-14, 2007. This serves as the DOE's primary peer review of the Laboratory's high energy physics research program, with the goals being to evaluate the quality of the research performed by the Laboratory as a user facility as well as the quality of research performed by the laboratory staff. The review should also assess the balance of the current research portfolio and the Laboratory's plan for its future.

We ask that you address SLAC's efforts in the following major areas of research:

- B-Factory physics program and the impact of the B-Factory ramp down in FY09;
- Other ongoing experimental physics program, including GLAST, EXO-200, etc.
- Participation in the LHC research program, both in the accelerator and the ATLAS experiment;
- Theoretical particle physics and the KIPAC program in astrophysics, and cosmology, and the impact of these programs on the lab's experimental program;
- Accelerator R&D for the ILC;
- Advanced accelerator R&D projects, including SABER, the NLTCA and the High Gradient Research Project for a Multi-TeV Linear Collider;
- Research and development efforts to support the above programs and the new initiatives that the Lab is pursuing, including EXO, LSST, SNAP, etc.

The SABER and KIPAC programs were recently reviewed by the OHEP and we expect to issue the final reports for both reviews before the Annual Lab review. Please make those reports available to the reviewers in advance of June 11.

For each of the major areas of the research program, the consultants will be asked to comment upon:

- Scientific and technical merit and importance of the area
- Quality and impact of the recent research



- Adequacy of the allocated resources
- Feasibility for carrying out the proposed plans
- Comparison with research at other laboratories

We will ask our consultants to provide evaluations of: (i) the research activities of the laboratory during this past year, including the research activities of the laboratory staff (ii) goals for the research program in the next year, (iii) and the long-term research plan for the laboratory. We also expect a discussion by Laboratory Management of the overall balance and priorities of the research program.

As we have done in past DOE program reviews, we will invite our consultants to provide immediate feedback to the Laboratory, but we will also request from them confidential statements in writing that will be used in our evaluation of your program.

John Kogut will chair the review and serve as our contact on all aspects of the review. A tentative list of members of the review committee is enclosed for your information. In a recent survey of our consultants, all have expressed the need and appreciation for receiving any material available from the Laboratory prior to the review. We trust that you will try to comply with this request as much as possible (see the comments above concerning other recent reviews at SLAC), and at the very least by posting presentations from this past year's review.

We look forward to this important event.

Sincerely,



Robin Staffin  
Associate Director  
Office of High Energy Physics

Enclosure

cc: R. Orbach, SC-1  
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