

Dr. Jonathan Dorfan
Director
Stanford Linear Accelerator Center
2575 Sand Hill Road
Menlo Park, California 94025

Dear Dr. Dorfan:

The annual review of the research program of the Stanford Linear Accelerator Center (SLAC) by the Department of Energy (DOE) is scheduled for June 14-16, 2005. This serves as the DOE's primary peer review of the Laboratory's 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
- Any remaining fixed target physics analysis program
- Experimental astroparticle physics (e.g. GLAST)
- Theoretical particle physics and astrophysics, including cosmology and its support for the experimental program
- Accelerator R&D, including linear collider and other advanced accelerator R&D
- Research and development efforts to support the above programs and any new initiatives that the Lab is pursuing (e.g. EXO, LSST, SNAP, etc.)

The B-factory Operations Review will evaluate separately the operation and improvement in the performance of the accelerator complex and the operation of the BaBar detector. The report from the 2004 Operations Review as well as reports of DOE reviews of LAT projects will be provided to the consultants for their information.

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.

The inclusion this year of a review of the scientific activities of the laboratory staff in addition to the overall laboratory program and standalone B-factory Operations Review will require some restructuring of the review process, with more time allocated for breakout sessions. We also plan to expand somewhat the constitution of this year's review committee to include a broader range of scientific expertise.

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 ultimate evaluation of your program.

Aesook Byon-Wagner 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, 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