

Meeting of the Executive Committee of the DPF

December 7, 1996

Present: Bagger, Burchat, Cassel, Dawson, Devlin, Einhorn, Frisch, Georgi, Gordon, Grannis, Kinoshita, Rutherford, Schellman, Sciulli, Shaevitz, Trilling

Guests: M. Bardeen, M. Barnett, M. Blume, M. Goldberg, P. Rankin, E. Weinberg

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Report of Secretary-Treasurer

As of December 1, 1996, the DPF general account stood at \$66,948. There were no major expenditures during the last quarter. The Wilson Prize is now fully endowed. Funds are still needed for the Panofsky Prize, which stands at about 60% of its goal.

The Office of Management and Budget received over 3,500 letters from scientists protesting out-year projections for the Department of Energy's Office of Energy Research. The letters have apparently had an effect on the President's FY98 budget, which holds the HEP budget approximately flat.

Bagger, Cassel, Sciulli and Grannis are preparing a document listing the annual tasks assigned to DPF officers. The hope is that this document will record much of the collective memory that is presently transmitted by word of mouth from year to year.

Report of Chair

Frank Sciulli reported on the following issues:

Judy Franz has reminded all units that the APS has a "Statement on Statements by APS Units." This document contains guidelines for public statements issued by APS units (like the DPF).

The APS has registered with Congress as a lobbying organization. Judy Franz asks that she be informed of any DPF activities that might be considered lobbying.

Stanley Brown requested that the DPF suggest possible replacements for Steve Sharpe, who is retiring after a three-year term as Divisional Associate Editor of PRL. After some discussion, the Executive Committee compiled a list of candidates.

Michael Lubell is developing a promotional brochure for the APS. The brochure will be aimed at Congress and the news media. It will have two parts: the first highlighting dramatic recent discoveries in physics, and the second tracing the wide-ranging impact of the laser across society. After some discussion, the Executive Committee asked Howard Georgi to contact Lubell to ensure that the APS efforts are coordinated with the NRC research briefing being prepared by the Winstein panel. Pat Burchat will contact Lubell to discuss the impact of lasers in high energy physics.

Harry Lustig retired as Treasurer of the APS on November 11. The Executive Committee approved the following statement:

The Division of Particles and Fields recognizes the important contributions of Harry Lustig to the American Physical Society and all its members. During his tenure as Treasurer, the Society has regained a sound financial basis through his dedicated and prudent judgment. His counsel has been important far beyond the financial realm. The DPF Executive Committee wishes to sincerely thank him for his many contributions to all its member scientists.

Lustig has been replaced by Thomas McIlrath, Associate Dean for Research and Graduate Studies at the University of Maryland, College Park. McIlrath is an active member of the Division of Laser Science, which he chaired in 1988.

Ben Bederson will retire as Editor-in-Chief of the APS on December 31. The Executive Committee issued the following statement:

The Division of Particles and Fields wishes to express its gratitude to Ben Bederson for his many years of service to the American Physical Society as Editor-in-Chief. During his tenure, the APS journals have grown in size and in influence. He has provided sound judgment essential for the journals to meet the needs of the community. His service to the scientific community stands as an example for us all; the DPF Executive Committee sincerely thanks him for his many contributions to all its member scientists.

Bederson will be replaced by Martin Blume, who recently stepped down as Deputy Director of Brookhaven.

Peter Rosen has been appointed as Associate Director for High Energy and Nuclear Physics at the Department of Energy. The Executive Committee asked Frank Sciulli to send the following letter on behalf of the DPF:

On behalf of the Division of Particles and Fields, I would like to offer you congratulations on your new appointment as the Associate Director for High Energy and Nuclear Physics at the Department of Energy. At this crucial time for basic research, it is essential that the best people are representing its interests in government.

We believe your many years of innovative research will stand you in good stead in your efforts to define and maintain the DOE role in nuclear and particle physics research in the U.S. The long history of fruitful interactions and collaboration on physics and governance in our field assure your colleagues that you will bring great energy and a clear perspective to this crucial job. We in the DPF offer our support and help as you take on these new responsibilities.

HEPAP Report

David Cassel and Frank Sciulli reported on the November 25 HEPAP meeting. The complete minutes of the meeting are posted at <http://www.science.doe.gov/hep>

Cassel and Sciulli reported that Mel Shochet, Gene Beier and Don Reeder are now on board as HEPAP University Representatives. At the November meeting, the representatives held an initial discussion of issues related to the HEP university community and the role that they might play.

Cassel and Sciulli discussed the charge of the proposed HEPAP subpanel, which has been broadened to include a full review of the national program, with emphasis on the middle and long term. Questions relating to the relative balance between the university and laboratory efforts will be addressed in the context of the entire U.S. high-energy program. The DOE will ask the DPF Executive Committee for comments on the proposed charge and for suggestions for possible members of this subpanel.

The DOE requested that the DPF Executive Committee provide suggestions for six new HEPAP members, whose appointment will begin in August, 1997. The Executive Committee generated a list of names for transmission to DOE.

ICFA Seminar

Frank Sciulli attended the fifth ICFA seminar, held at KEK in mid October. The program focused on the particle physics at the high energy frontier.

The major news from the meeting was an apparent agreement between the U.S. and Japan to begin developing a site-independent conceptual design report for a Next Linear Collider. The proposed $e^+ e^-$ machine would be expandable from 500 GeV to 1.5 TeV in the center of mass.

Other items of note include:

Bjorn Wiik will be the next Chair of ICFA. His term will run for three years. There is now an Asian Committee on Future Accelerators, ACFA, to complement ECFA and ICFA. ACFA will meet in March, 1998 at KEK. ICFA has created a new panel on Advanced and Novel Accelerators. The next ICFA meeting will be January 31 at SLAC. The next ICFA seminar will be in the autumn of 1999, at Fermilab.

Public Information Coordinator

Frank Sciulli and Michael Barnett discussed the position of Public Information Coordinator (PIC). Barnett suggested that the position be split in two: a PIC to deal with the press, and a Congressional Liaison to handle Congressional relations and the annual DPF Congressional reception. After some discussion, the Executive Committee agreed to this plan.

Barnett suggested that the next Congressional Liaison be appointed soon, before this year's reception. This way the new appointee could "learn the ropes" before he/she officially assumes the job.

The Executive Committee discussed candidates for each job. Paul Grannis will make the final selections after additional e-mail discussion. (Note added: Bruce Barnett has agreed to organize the DPF Congressional receptions for a three-year term, starting January 1, 1998.)

April APS Meeting

Howard Georgi presented the invited program for the April APS meeting, which will be held in Washington over the weekend of April 17-21. The sorters meeting for contributed sessions will be held in January.

Paul Grannis reported on his efforts to change the format of the 1998 meeting to include general plenary sessions. There was a mid-September meeting to discuss the format of 1998 meeting, but a communications breakdown within APS stalled progress.

The Executive Committee agreed with Grannis that the present system is not working. It encouraged him to follow up directly with Judy Franz, and to work with the Divisions of Nuclear Physics, Astrophysics, and the Physics of Beams to find common ground.

The early deadline for contributed abstracts also poses a problem for the April meeting. Henry Frisch volunteered to seek to have the deadline moved back in future years.

DPF 96, 98/99

Frank Sciulli will thank the organizers of DPF 96 for the excellent job they did organizing the 1996 DPF meeting. Jon Bagger will contact Ken Heller to obtain a final report on the conference.

There are still no proposals for DPF 98. Paul Grannis will solicit proposals for a DPF meeting in 1998 or 1999. A meeting in the summer of 1998 would have to be scheduled around the International Conference on High Energy Physics, which will be in Vancouver that year.

Membership Drive

Henry Frisch pointed out that the DPF membership roster stands at about 8% of the APS total. Because of this, the DPF is on the threshold for a third Division Councillor. He felt that the time might be right to conduct a membership drive, especially for younger physicists who do not understand the role of the DPF.

Heidi Schellman agreed to chair a membership committee consisting of Frisch, Jon Bagger, Tom Devlin and Marty Einhorn. The committee will prepare materials for distribution through collaborations, users organizations, as well as the DPF newsletter and web server. In addition, Bagger and Paul Grannis will contact former DPF members whose memberships have expired during the past few years.

There was some discussion as to whether the Executive Committee should have one position reserved for a student or postdoc. Bagger will investigate whether other Divisions have students on their Executive Committees.

Educational Outreach

Tricia Rankin, Marv Goldberg, Marge Bardeen and Michael Barnett discussed educational outreach in the context of particle physics and the DPF.

Rankin emphasized that the NSF is committed to "building a bridge to the 21st century" and that the Foundation is looking for new ideas to "add value" to its present programs. Without new ideas, she said that the best that can be expected is a "flat-flat" budget, with no allowances for inflation.

Rankin felt that educational programs might provide this added value. She said that particle physics, with its large collaborations, is in a good position to carry out educational programs. The large size of modern collaborations will allow some people to specialize in educational outreach. The long time scales involved will facilitate program continuity. And the extensive use of computers will allow collaborations to export their programs over the world-wide web.

Rankin said that the NSF needs someone to step forward to organize this. This person would collect the activities, to find what works and what does not. She said that there is

real money from EPP and from the Physics Division Directorate to implement the program.

Marge Bardeen spoke about outreach in the context of the Fermilab educational effort. She emphasized that it is important for outreach programs to have clear goals. At Fermilab, the goal is to nurture change in the educational community.

Bardeen felt that the DPF outreach effort should take account of the forces that drive the educational community. Right now, there is great interest in changing the teaching/learning paradigm. The idea is to move science teaching towards a problem-oriented mode. Bardeen felt that any effective DPF effort must be formulated in this context.

Bardeen is participating in an informal survey, together with Joey Huston, Randy Ruchti and Michael Barnett, of about 110 university and laboratory groups. The goal of the survey is to produce a booklet and compile a web-based list of educational programs and materials by particle physicists for teachers and scientists.

Michael Barnett felt that HEP outreach should focus on what we know best - that is, high energy physics. He said that the ATLAS and CMS collaborations will have extensive educational pages.

Marv Goldberg encouraged the Executive Committee to think about the best use of the web in education. He said that a long-range goal might be to get HEP-related materials into the K-12 educational curriculum. He mentioned the example of Utah, where members of the Fly's Eye collaboration are working closely with state officials.

After extensive discussion, the Executive Committee applauded these outreach efforts. The EC agreed that DPF should endorse the NSF plans to expand outreach to educators and the general public. Therefore the EC issued the following statement

The Executive Committee strongly endorses the NSF initiative, even though the DPF itself is not organized so as to take a primary role in the development or coordination of the effort. Increased outreach by individual institutions and large experimental collaborations, in close cooperation with educators, can improve the general appreciation for fundamental science in our society.

The Executive Committee expressed its willingness to comment on and endorse proposals which seek to implement efforts to monitor and coordinate outreach efforts.

APS Electronic Publishing

Erick Weinberg spoke about Physical Review D. He said that it is a time of rapid change for the journal. He highlighted the following recent developments:

PRD has been online since August. After January 1, it will be available to subscribers or to people whose internet provider has purchased a library subscription.

Postscript files of articles will be available after January 1. Until then, they will be available in Acrobat only.

Electronic submission to PRD can be accomplished by email or by web upload, in TeX or LaTeX. There is no page charge for such compuscripts.

Marty Blume outlined the challenges he will face during his five-year term as Editor-in-Chief of the APS:

To sustain and strengthen the quality and financial viability of the APS journals, while keeping costs to members and libraries down;

To move aggressively towards full electronic availability of publications;

To extend the international importance of APS publications by working closely with colleagues worldwide.

Blume felt that print publishing will be important for the duration of his term as Editor. But he said that APS must be ready to exploit new opportunities in the electronic arena. He felt that this will require a two-prong approach: step-by-step evolution, as is presently underway, and full-scale revolution, such as the Los Alamos e-print server. Blume said that both are needed, but that the APS must be careful not to destroy what it already has.

APS Positions

The Executive Committee discussed candidates for various APS positions. The discussion will be continued by email, and the final suggestions will be forwarded to APS headquarters.