

DPF Newsletter - May 1999

In This Issue...

DPF Congressional Reception

DPF Nominations

New APS Fellows

Meeting News

DOE & HEPAP News

Prizes

DPF Bylaws changes

A ballot for voting on amendment of the DPF bylaws is included with this newsletter. [Proposed changes](#) to the DPF bylaws were printed in the December, 1998 newsletter and were discussed at the DPF business meeting at UCLA in January, 1999. The primary reason for changing our bylaws is to allow electronic balloting in our annual elections. Note that voting would not become exclusively electronic; paper would continue to be available as an option. We also shifted the dates of our election to be later in the year. The earlier dates (presently in the bylaws) are not optimal as they have our election held mostly during the summer when a lot of people are gone. The changes to the text appear in ~~strikeout~~ and proposed new text appears in ***bold dark red italics***. Please note that ballots should be returned promptly; the deadline for voting is 15 June 1999.

DPF Congressional Reception

Contributed by Bruce Barnett

The Division of Particles and Fields and Division of Nuclear Physics invite you to attend a reception for Members of Congress and their aides co-sponsored by Michigan Rep. Vern Ehlers, member of the House Science Committee. Last year such a reception was sponsored by the DPF and Representative Ehlers. Several Members of Congress and their staff attended, along with many other people from the Legislative and Executive branches. They reported that they found the event to be very informative.

The DPF and DNP hope that a diverse group of physicists, including graduate students and postdocs, will help to communicate the excitement and importance of science from the perspective of particle and nuclear physics. Please communicate this message to your younger colleagues. In the past, many of the women aides especially liked speaking with women physicists. Laboratories and others are invited to display posters describing ongoing activities, but please let us know of your intentions so proper coordination can be done.

The time and place are:

Tuesday, May 11, 5-7 PM (light refreshments served) Rayburn House Office Bldg., Room B-354 South Capitol Street at Independence Avenue Nearest Metro stop: South

Capitol (Blue and Orange lines)

It is ESSENTIAL that anyone who intends to participate fills in the RSVP information on the web site: http://tquark.pha.jhu.edu/~bab/reception_99.cfm.

It will be helpful if you can personally invite your local Representatives and Senators to attend. This is especially important if they are members of the corresponding Science Committees. Please make clear that the invitation also includes any aides interested in science issues. See the web site above for information for Members of Congress and aides.

All participants are asked to respect the purely informational nature of this event. The intention is to provide information about the broad base of science research from the perspective of our field.

Thank you for helping us make the event a success.

Howard Gordon, Brookhaven Nat. Lab, Chair of DPF

Stuart Freedman, U. C. Berkeley, Past-Chair DNP

Bruce Barnett, Johns Hopkins Univ., Reception co-ordinator

Nominations for DPF Offices

Nominations are open for DPF offices. This year we will elect a Vice-Chair and two Executive Committee members. Suggestions may be sent to the Nominating Committee chair:

Wesley Smith
Dept. of Physics
University of Wisconsin
1150 University Ave
Madison WI 53706
Phone (608) 262-4690
Fax (608) 263-0800
E-mail wsmith@hep.physics.wisc.edu

We will also elect a Divisional Councilor. Suggestions for Divisional Councilor may be sent to the Chair of the DPF Executive Committee:

Howard Gordon
Physics Dept. 510A
Brookhaven National Laboratory

Upton, NY 11973
Phone: (516) 344-3740 Fax: (516) 344-5568
E-mail: gordon1@bnl.gov

DPF Bylaws also allow people to be nominated by petition. A candidate for Vice-Chair or Executive Committee member may be nominated by sending a petition with 20 signatures from DPF members to the DPF Secretary-Treasurer:

Catherine Newman-Holmes
Fermilab MS 318
P.O. Box 500
Batavia, IL 60510

Candidates may also be nominated for Divisional Councilor; this requires 5% of DPF membership, which would be 163 signatures.

New APS Fellows

Congratulations: to the following people who were chosen Fellows of APS from DPF in 1998:

Howard Baer
R. Sekhar Chivukula
Thomas Curtright
G. William Foster
Alfred Goshaw
John Huth
Peter Limon
Aneesh Manohar
Ann Nelson
Ronald Poling
Qaisar Shafi
Henry Sobel
Morris Swartz
Jon Thaler
Bennie Ward
Laurence Yaffe
John Yoh

Meeting News

DPF 99 was held January 6-9, 1999, at the University of California, Los Angeles. Thanks to the Local Organizing Committee chaired by Roberto Peccei and David Cline for a well-run and interesting meeting. The proceedings will be available soon ONLY on the Web. The conference web site is <http://www.physics.ucla.edu/dpf99/>.

DPF 2000 will be held 9-12 August 2000 at Ohio State University, Columbus, Ohio. Further details will appear in the DPF newsletter and will be sent out to DPF members at a later date.

The APS Centennial is now history. Over 12,000 people registered for the meeting held last month in Atlanta, Georgia. In the exhibit hall, DPF was well-represented with a joint DPF/DPB exhibit mounted by the Fermilab and SLAC Offices of Public Affairs, as well as computer terminals running "The Particle Adventure." We handed out 5000 laminated particle charts and 1000 "Particle Adventure" CD-ROMs and that didn't satisfy the demand! Thanks to all who made the centennial meeting such a success. Coming up this summer: the Graduate Student Association at Fermilab sponsors an annual conference especially organized for graduate students to present their work. DPF is a sponsor of the conference this year. It will be held 8-10 July 1999 at Fermilab, following the Fermilab Annual Users meeting. More information is available at: <http://www.fnal.gov/orgs/gsa/np/1999/np99.html>.

News from DOE and HEPAP

Contributed by John Metzler, DOE

At the December 1998 meeting of HEPAP, Martha Krebs, the Director of DOE's newly named Office of Science (SC), discussed the FY 1999 Appropriation for SC of \$2,718.5 million. It is more than \$200 million greater than the FY 1998 Appropriation, provides \$130 million of new money for construction of the Spallation Neutron Source, supports the Science Facilities Utilization initiative, and gives to the SC LHC construction project a large increase. In passing the FY 1999 budget, Congress changed the name of the Office of Energy Research to the Office of Science. Under-Secretary Moniz has developed a "Science Portfolio" to help develop DOE's FY 2000 budget request and explain to Congress the DOE programs and their relationship to each other. Other, non-science influences are also affecting the formation of the FY 2000 budget, such as: the legacies of the FY 1999 Omnibus Funding Bill; concerns over the appropriate balance between defense and civilian research as the firewall between the two collapses in FY 2000; and uncertainty on how best to use a budget surplus, which Congress has not seen for 30 years.

Sharon Hayes, Science Fellow for Representative Vernon Ehlers, and Njema Frazier, who works for Congressman George Brown on the House Science Committee, reviewed the House Science Committee Report, "Towards a New National Science Policy." Dr. Hayes emphasized such major themes in the report as: the responsibility of the Federal Government to fund fundamental research; the growing importance of interdisciplinary research and the adequacy of current approaches to funding such research; the shrinking discretionary part of the Federal Budget caused by the growth in entitlements; and deficiencies in K-12 science education. Congressman Ehlers sees the report as a first step and a foundation for discussion; the next step is to begin to analyze in depth specific issues. Congressman George Brown was disappointed that the report did not provide readers with some understanding of the process of creativity and innovation as well as an

articulation of why it is in the public's interest to support science.

HEPAP members regarded the House Science Report as an important effort by the Congress to both generate and take ownership of its own science policy and to build a national consensus on the importance of basic research. They noted that the report encouraged an increase in funding without trying to set priorities among the various fields of science. John O'Fallon, Director, Division of High Energy Physics, Office of Science, followed closely the recommendations of the Gilman Subpanel Report in his Office's distribution of the \$694 million that is SC's FY 1999 budget for high energy physics. This budget reflected the transition of programmatic responsibility for BNL from high energy physics to nuclear physics; provided the largest, single-year increase for the U.S. LHC Construction Project, \$30 million; marked the conclusion of the Main Injector construction project and the beginning of the NuMI project at Fermilab; saw an increase in SLAC's facility operations due to the start of the newly completed B-Factory; and gave a 4% increase for the university program.

Alex Firestone of NSF's Physics Division reported that the FY 1999 budget for elementary particle physics would likely be \$40 million, with an additional \$1 million for LHC activities. These funds are outside the \$22.15 million that is NSF's share of the U.S. LHC Construction Project. Computing is receiving increasing attention within SC and the HEP program. After the August 1998 HEPAP meeting, the chair formed a working group to help HEPAP understand the computing issues facing HEP. Larry Price is the chair of the working group, and he reported on his organizational efforts for presentations at future HEPAP meetings. For the U.S. ATLAS and CMS computing, P.K. Williams of DOE's Division of High Energy Physics convened in November 1998 an Ad Hoc Panel to help DOE and NSF ensure that the right computation tasks are being done, that plans are adequate, and that resources are used efficiently and wisely. The group met for the first time in November 1998 and is scheduled to reconvene in early May 1999. Dan Hitchcock of the SC's Office of Advanced Scientific Computing Research reviewed DOE's participation in the Strategic Simulation Initiative (SSI), an effort to build on the capabilities of DOE's Accelerated Strategic Computing Initiative (ASCI) that is currently developing 100 teraflop computers for use in 2004 in a science-based, stockpile stewardship programs. Dr. Hitchcock explained how SSI is to be an investment in advanced computing resources for use in complex scientific research, and the many technical and organizational challenges facing the SSI effort.

HEPAP also discussed proposals for major new experimental initiatives at the AGS, and this raised the issue of the degree of funding flexibility needed to accommodate new initiatives that now face both a very high threshold for approval and a tightly constrained budget environment. The Gilman Subpanel report had made recommendations under the assumption of a HEP budget which rises with inflation, which the DOE HEP program uses as guidance as it allocates increasingly scarce resources. A more tightly constrained budget was not envisioned.

DOE HEP News

In January 1999, Jack Ritchie became the Team Leader for Facilities Operations in SC's

Division of High Energy Physics

Panofsky, Sakurai and Wilson Prizes

The deadline for nominations for the Panofsky, Sakurai and Wilson Prizes is **July 1, 1999**. Any APS member not a member of the Selection Committee may submit one nomination or seconding letter for each prize or award in any given year. A nomination should include a letter of not more than 1,000 words evaluating the nominee's qualifications in the light of the particular features of the prize or award and identifying the specific work to be recognized; a biographical sketch; a list of publications; at least two, but no more than three, seconding letters; and up to five reprints or preprints.

Nomination information should be sent directly to the chair of the Selection Committee for each prize. More information can be found on the APS web page on prizes and awards, <http://www.aps.org/praw/>.

The **W.K.H. Panofsky Prize** is intended to recognize and encourage outstanding achievements in experimental particle physics. The Chair of this year's committee is:

Karl Berkelman

Newman Lab
Cornell Univ.
Ithaca NY 14853
Phone (607) 255-4198
Fax (607) 254-4552
E-mail kb@lns62.lns.cornell.edu

The **J.J. Sakurai Prize** is designed to recognize and encourage outstanding achievement in particle theory. Nominations should be sent to:

Richard Keith Ellis

Fermilab - MS 106
PO Box 500
Batavia IL 60510
Phone (630) 840-3749 / Fax (630) 840-5435
E-mail ellis@fnal.gov

The **Robert R. Wilson Prize** is awarded jointly with the Division of Physics of Beams. Its goal is to recognize and encourage outstanding achievement in the physics of particle accelerators. The Chair of the selection committee is:

Richard J Briggs

279 Bolla Ave
Alamo, CA 94507
Phone (510) 552-9746