

DPF Newsletter - July 1998

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On the Web

DPF home page:

<http://www.aps.org/units/dpf/>.

Note that it has moved in the last few months; the old site is redirecting but you may want to change your bookmarks.

HEPAP Subpanel report on Planning for the Future of U.S. High-Energy Physics ("Gilman report", February 1998):

http://www.hep.net/doe-hep/hepap_reports.cfm

DOE Division of High Energy Physics:

<http://www.hep.net/doe-hep/home.html>

NSF Elementary Particle Physics:

<http://www.nsf.gov/mps/phy/particle.html>

APS Centennial:

<http://www.aps.org/centennial/>

FNAL Director Search:

http://www.fnal.gov/directorate/ura/dirsearch/director_search.cfm

FNAL Director Search

The DPF Newsletter has a new look!

The newsletter has been redesigned by the APS Publications Department. The DPF newsletter is published roughly three times a year. Contributions from DPF members are welcome. Send them to cath@fnal.gov.

Cathy Newman-Holmes

Editor and DPF Secretary-Treasurer

DPF Public Information

The DPF has a new Public Information Coordinator: Robert Cahn of Lawrence Berkeley National Laboratory. He has developed a new Web page:

<http://phyweb.lbl.gov/~rncahn/pic.cfm>.

Universities Research Association, Inc. (URA) has appointed a Search Committee to conduct an open, broad-based search for a successor to Fermilab Director John Peoples, who has announced his intention to retire, effective July 1, 1999. The Search Committee met at Fermilab 28-29 May 1998 and conducted extensive interviews with many members of the Fermilab staff and user community. Further information about the Fermilab Director search may be found at http://www.fnal.gov/directorate/ura/dirsearch/director_search.cfm

DPF Elections

A ballot for the DPF elections is enclosed with this newsletter. This year we will elect a **Vice-Chair**, a **Divisional Councillor**, and **two regular members** of the Executive Committee.

The Vice-Chair will enter our four-person Chair line (see below) and become Chair in 2000.

The Divisional Councillor is one of two who represent DPF at meetings of the APS council and act as liaisons to the APS.

The two Executive Committee members will join four Executive Committee members remaining on the committee.

The current members of the DPF Executive Committee and the final years of their terms are:

Chair:	Howard Georgi (1998).
Chair-Elect:	Howard Gordon (1998).
Vice-Chair:	Eugene Beier (1998).
Past Chair:	Paul Grannis (1998).
Secretary-Treasurer:	Catherine Newman-Holmes (2000).
Division Councillor:	Henry Frisch (1998), George Trilling (1999).
Executive Committee Members:	Pat Burchat (1999), Tom Devlin (1998), Nicholas Hadley (2000), Kay Kinoshita (1999), Donna Naples (2000), Heidi Schellman (1998).

The nominees for Vice-Chair are Michael Barnett (LBNL) and Chris Quigg (FNAL). Sally Dawson (BNL) and Alfred Mueller (Columbia University) are the candidates for Divisional Councillor. The nominees for regular members of the Executive Committee

are Vernon Barger (University of Wisconsin), Raymond Brock (Michigan State University), Glennys Farrar (Rutgers University) and Ron Poling (University of Minnesota). The ballot and statements from the candidates are appended to the end of the newsletter. The deadline for receipt of completed ballots is **September 15, 1998**.

Panofsky, Sakurai and Wilson Prizes

Prizes supported by DPF are described below. Although nominations were due on July 1, 1998, the committees will consider material submitted up to August 1, 1998. 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/praw95.html>.

W.K.H. Panofsky Prize

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:

Michael Zeller

Department of Physics
Yale University
Box 208121
New Haven CT 06520-8121
Phone (203) 432-3650
Fax 203 432 6175
Email Zeller@yale2.physics.yale.edu

J.J. Sakurai Prize

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

Robert N Cahn

Rm 3115 Bldg 50A
Lawrence Berkeley Lab
Berkeley, CA 94720
Phone: (510) 486-4481
Fax: 510 486 6067
Email: rncahn@lbl.gov

Robert R. Wilson Prize

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:

Hermann A Grunder

12-C

Thomas Jefferson National Accelerator Facility

12000 Jefferson Ave

Newport News VA 23606

Phone (757) 269-7552

Fax 757-269-7398

Email Grunder@jlab.org

DPF Congressional Reception

Contributed by Bruce Barnett

The Division of Particles and Fields hosted a reception for members of Congress and their staff, representatives of the funding agencies for elementary particle physics, and other interested persons on May 5, 1998.

The reception was held in the House of Representative's Science Subcommittee meeting room and was cosponsored by Congressman Vernon Ehlers of Michigan. Excellent support in arranging the reception was supplied by Judy Franz (APS) and Ezra Heitowit (URA).

About 125 people attended, with approximately equal representation from the physics community, Congress and the agencies. About a half dozen members of Congress attended, including (besides Representative Ehlers), Science Committee Chair Sensenbrenner of Wisconsin, Representative Fawell of Illinois, and Representatives Brown, Filner and Rohrabacher of California.

Howard Georgi of Harvard, current Chair of the DPF, greeted the guests along with Representative Ehlers, and spoke briefly about the importance of advancing science, but also about the importance of communications to society at large about scientific developments.

The reception offered an excellent opportunity for people from the various backgrounds to exchange ideas and perceptions. A similar reception is expected to be held again next year, at about the same time of year.

DPF Plans for the APS Centennial Meeting

Contributed by Eugene Beier

The American Physical Society celebrates its 100th year in 1999. The traditional March and April spring meetings are combined into a single Centennial Meeting, to be held in Atlanta, Georgia, March 20-26, 1999. Information is available at <http://www.aps.org/centennial/>.

The meeting will be a high profile event, with close to fifty Nobel Prize Winners attending. DPF members should plan to attend the meeting to celebrate the centennial and to look forward to the coming century together. There will be a series of "Centennial Symposia" showcasing the accomplishments and opportunities in physics, and displays organized by each unit, including DPF.

The DPF has been allocated eight sessions for invited talks for the March, 1999, meeting (compared to five for the April, 1998 meeting). Future issues of this newsletter will provide more details on the program.

News from DOE and HEPAP

Contributed by John Metzler

1998 OJI Awardees

The DOE Division of High Energy Physics has selected the FY 1998 Awardees in the Outstanding Junior Investigator Program. They are:

James Buckley, Washington University - St. Louis
Paul Findley, University of Virginia
Richard Hughes, Ohio State University
Robert Jacobsen, University of California-Berkeley
Mark Kamionkowski, Columbia University
Juan Maldacena, Harvard University
Krishna Rajagopal, Massachusetts Institute of Technology

Further information is available through the DOE/HEP home page at <http://www.hep.net/doe-hep/home.html>.

HEPAP

The DOE High Energy Physics Advisory Panel (HEPAP) met May 14-15 at LBNL, John O'Fallon reported little Congressional action to date on the FY 99 budget request of \$691 million. The FY98 NSF EPP budget is set at \$41 million. In FY99, NSF will start funding its part of the U.S. LHC detector construction, all of which is to come from the Major Research Equipment account. Peter Rosen noted that the Gilman report (Planning for the Future of U.S. High-Energy Physics, February, 1998, http://www.hep.net/doe-hep/hepap_reports.cfm) is being used in planning the DOE-HEP FY2000 budget.

HEP needs for computer networking were highlighted at the May meeting. HEPAP was informed of the dependency of LHC experiments on the quality of the network connections; the effectiveness of the ESnet to the national laboratories and the universities connected to it; the variability of university network connections; the effect

of the very low speed of the international links on U.S. physicists involved in international collaborations; and the rapidly growing needs for faster and more extensive networking.

The important role that LBNL plays in HEP was underscored by the fact that almost every major U.S. collider experiment has used silicon detector electronics developed by LBNL, and that LBNL is the lead U.S. group on silicon pixel detectors. LBNL is also a major collaborator on PEP-II and the U.S. LHC accelerator effort, and is carrying out R&D for future colliders as well.

The next meeting of HEPAP will be held August 24-25, 1998 at the University of Wisconsin in Madison. The preliminary agenda and other HEPAP information can be viewed via the DOE- HEP home page.

LHC

The U.S. LHC effort is well underway. The DOE and NSF Joint Oversight Group, chaired by John O'Fallon (DOE) and Jack Lightbody (NSF), has met twice. For 1998, the JOG has appointed Dave Sutter as the DOE LHC Program Manager, and Marv Goldberg is acting as the NSF Associate LHC Program Manger. Jim Yeck, in residence at Fermilab, is the U.S. LHC Project Manager. The JOG has also approved the baselines for the U.S. ATLAS and the U.S. LHC Accelerator projects, and a recent review chaired by Dan Lehman has recommended that the U.S. CMS project be baselined. More LHC information may be found out <http://www.hep.net/doe-hep/lhc.html>.

Comings and Goings

Bob Diebold is retiring from DOE at the end of June and Patricia Rankin is leaving NSF to return to the University of Colorado in August. John Metzler is assuming the duties of Executive Secretary for HEPAP.

News from NSF

M. Bardon

The following item is from Robert A. Eisenstein, Assistant Director for Mathematical and Physical Science:

Dear Friends,

I have the sad duty to inform you that Marcel Bardon passed away on Wednesday afternoon, May 20. Marcel's contributions to the Physics Division, to MPS, to NSF, and to the United States and international scientific communities were as important as they were numerous. Marcel's many friends and colleagues at NSF and all over the world will miss him greatly.

Special Emphasis Panel

The National Science Foundation has established a new "Special Emphasis Panel in Elementary Particle Physics," the third in the series of such panels. This Panel was

chaired by Bob Cahn of LBNL. It has now met several times and presentations were made by representatives of BABAR, B-TeV, CDF, CLEO, DO, HERA-B, and LHC-B. The charge to the Panel is:

The study of B particles is an increasingly important component of the national and international high-energy physics program. Within the next two or three years, current experiments will be joined by new major efforts designed to study the properties of B decays, and especially CP violation. Requests to participate in these programs may well exceed the capability of the Elementary Particle Physics program at NSF to fund them. The program asks the Special Emphasis Panel to assess the opportunities for fundamental discoveries in B physics and to identify the approaches that are the most suitable for support by EPP over the next five years.

A report from the Panel will be available soon. The URL for the report will be distributed electronically to DPF members.

Meetings and Workshops

The DPF Newsletter no longer contains a comprehensive listing of conferences and workshops. The DPF Web page (<http://www.aps.org/units/dpf/conferences/index.html>) contains links to some of the popular servers for conferences and meetings.

Workshop on Physics and detectors for Future e+e- Linear Colliders

There will be a four day workshop on the physics and detectors for future e+e- linear colliders, held at the Keystone Resort in Colorado on September 26-29, 1998. The purpose of this workshop is to start organizing the U.S. effort to participate in an International study on the physics and detectors for future e+e- linear colliders. There will be significant funding available for R&D on detectors for future e+e- colliders starting in FY 1999. Part of the purpose of this workshop will be to set up working groups to start developing a detector R&D plan, leading to R&D proposals for the first round of R&D funds available in FY 1999.

This workshop will be open to all scientists interested in future e+e- detectors. More details will be made available later.

For information contact: Charles Baltay (charles.baltay@yale.edu) or Uriel Nauenberg (uriel%colohe@vaxf.colorado.edu)

DPF 99

DPF 99 will be held January 6-9, 1999, at the University of California, Los Angeles. Registration will be the day before. The Local Organizing Committee is chaired by Roberto Peccei and David Cline of UCLA; it includes representatives from many institutions in Southern California. More information will eventually be available on the conference web site, <http://www.physics.ucla.edu/dpf99/>.

