

# DPF Newsletter - June 2001

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The DPF newsletter is published roughly three times a year. Contributions are welcome. Send them to the Editor.

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## Meetings

DPF 2002 will be held on the campus of the College of William and Mary in Williamsburg, Virginia, May 24-28, 2002. Details will appear on the conference web site, <http://www.dpf2002.org>.

The 2002 American Physical Society (APS) April meeting will take place in Albuquerque, New Mexico, April 20-23, 2002.

In 2003, the DPF will hold its divisional meeting in Philadelphia, in conjunction with the APS April Meeting, April 5 - 8, 2003. We have agreed to join the DPF Meeting to the APS April Meeting in odd-numbered years, to enhance communication with DAP and DNP.

In 2004, the APS April meeting will be in Denver, May 1-4.

The Executive Committee is seeking offers to host the 2004 DPF Meeting, preferably during the late summer or early fall, and in the west. If your institution is interested in making a bid, please contact Chris Quigg (<mailto:quigg@fnal.gov>) or Nick Hadley (<mailto:njhadley@physics.umd.edu>).

## Snowmass News

The high-energy physics community in the United States has gathered at intervals since 1982 to examine and articulate the current state of the discipline and to chart its future. This year, the APS Divisions of Particles and Fields and of the Physics of Beams are organizing a Summer Study on the Future of Particle Physics that will consider the field in all its richness and diversity. Snowmass 2001 will consider experiments at the highest energies, experiments of exceptional sensitivity, and experiments that explore very high scales through virtual effects; accelerators to address a broad range of scientific opportunities; accelerator research to provide information for knowledgeable decisions about future projects, and accelerator research and technology development for the long

term; theory that develops hand-in-hand with experiment and visionary theory that hasn't yet engaged experimental particle physics directly. The workshop will examine accelerator experiments as well as particle astrophysics, and cosmological studies that use natural sources. It will examine the interplay between particle physics and new technologies, and will explore the interactions between particle physics and related fields.

Snowmass 2001 will be a forum for the critical examination of future projects, and will provide crucial community input to the long-range planning activities undertaken by the science funding agencies and the High Energy Physics Advisory Panel. It will be an ideal place for a broad community of scientists to examine initiatives for new accelerators and new detectors that are being developed throughout the world.

Every member of the high-energy physics community is welcome. We look forward to extensive international participation. The dates for the meeting are July 1-20, 2001.

For a more detailed description of plans for Snowmass 2001, visit <http://snowmass2001.org> regularly.

## **News from HEPAP**

An NSF/DOE HEPAP subpanel on long range planning has been formed "to review the central scientific issues that define the intellectual frontier of particle physics research and, based on that review, to develop a long range plan for the U.S. High Energy Physics program." The subpanel is chaired by Barry Barish and Jon Bagger.

The chairs of the subpanel have asked that the following letter be sent to the DPF community.

Dear Colleague -

The HEPAP subpanel on long range planning has completed the first phase of its information gathering process. During the past four months, the panel has heard a series of presentations in Gaithersburg and at Brookhaven, Fermilab and SLAC. The slides are available on the panel's web site, at [http://hepserve.fnal.gov:8080/doe-hep/lrp\\_panel/index.cfm](http://hepserve.fnal.gov:8080/doe-hep/lrp_panel/index.cfm).

The next phase will begin with the Snowmass Workshop in July. As part of that process, the panel would like to invite written comments from the community. To be most helpful, letters should address the issues raised by our charge. In particular, we are grappling with the following questions:

- What is the scope of particle physics?
- What are the most important scientific questions facing the field?
- What tools and approaches are required to address these questions?
- Does the science require a major new facility?

If so, should the US bid to host it? What are the advantages and disadvantages?  
How might the disadvantages be mitigated?  
What are the essential elements of a successful international partnership? How should it be implemented?  
What is the role of astroparticle physics and cosmology in the field?  
What is the relation between particle physics and other fields of science and technology?  
What are the important issues facing university groups? What is their role in the future evolution of the field?  
What are the most pressing R&D goals for accelerators and detectors?  
What does particle physics offer to society?  
What are the contributions of our field to other areas of science and technology?  
How do accelerator and detector R&D benefit society?  
What should the particle physics community do differently?

We welcome your thoughts on these questions and the issues before us, as well as any other comments you might have. Please send your comments to [panel@pha.jhu.edu](mailto:panel@pha.jhu.edu). Unless you request otherwise, your letter will be posted on our web site.

Thank you for your help in this important endeavor.

Jon Bagger  
Barry Barish  
Subpanel Co-chairs

## **News from NSF**

Contributed by Marv Goldberg

### CAREER Program

This premier program emphasizes the importance the Foundation places on the early development of academic careers dedicated to stimulating the discovery process in which the excitement of research is enhanced by inspired teaching and enthusiastic learning.

Successful applicants will propose creative, integrative, and effective research and education plans. The proposals will demonstrate activities that exemplify the process of continuous learning and the quest for new knowledge; such activities will enable the weaving of knowledge creation, integration and transfer into a robust whole.

Proposed education activities may be in a broad range of areas. They may address curriculum, pedagogy, outreach, or mentoring at any level, including graduate and undergraduate students, majors and non-majors, teacher preparation or enhancement, K-12 students, and/or the general public. Education activities may include designing new educational materials and practices, or adapting and implementing effective educational materials and practices developed elsewhere.

NSF especially encourages women, members of underrepresented minority groups, and persons with disabilities to apply and encourages the inclusion of members of these groups in educational activities.

Program information can be accessed on the CAREER Web page at: <http://www.nsf.gov/home/crssprgm/career/start.html>. CAREER proposals will be considered by every research-supporting unit of NSF.

Full Proposal deadline for Physics career proposals is July 26, 2001

## **APS Prizes**

We are pleased to announce that the 2001 Julius Edgar Lilienfeld Prize was awarded to DPF member Lawrence Kraus for "outstanding contributions to the understanding of the early universe, and extraordinary achievement in communicating the essence of physical science to the general public."

Please consider making a nomination for the prizes administered by the DPF that are listed below. (If you have missed this year's deadline, please consider making a nomination next year.)

**W. K. H. Panofsky Prize in Experimental Particle Physics J. J. Sakurai Prize for Theoretical Particle Physics, Robert R. Wilson Prize in the Physics of Particle Accelerators, Mitsuyoshi Tanaka Dissertation Award in Experimental Particle Physics.** Please see the web page <http://www.aps.org/praw/> for details on how to make a nomination.

A full list of APS prize winners for 2001 may be found at <http://www.aps.org/praw/01winers.html>.

Please also consider making a nomination for APS Fellowship for DPF members. Please see <http://www.aps.org/fellowship/> for details on how to make a fellowship nomination.