

August 2018 DPF Newsletter

Dear DPF members,

Please find below the monthly DPF newsletter for August 2018. This newsletter will be archived on the [DPF website](#).

If you would like an announcement included in the September newsletter, to be sent out around September 15th, please contact the DPF Secretary/Treasurer. Please keep requests to 300 words and submit them by the **10th of the month** for consideration.

Kate Scholberg, Secretary/Treasurer, schol@phy.duke.edu

Rick Van Kooten, Member-at-Large, rvankoot@indiana.edu

Elizabeth Worcester, Member-at-Large, etw@bnl.gov

1. Call for input to the DPF submission to the European Strategy Group
2. Bids for next DPF meeting venue
3. National Academies Astronomy and Astrophysics Decadal Survey (Astro2020)
4. Extension of DPF Instrumentation Award deadline to August 31, 2018
5. CPAD Instrumentation Workshop 2018
6. DPF Election coming up

1. Call for input to the DPF submission to the European Strategy Group

The European Strategy Group (ESG) and Physics Preparatory Group (PPG) are about to begin the process of formulating European priorities for particle physics for the first half of the next decade. This is a call to the US particle physics community to provide material to be considered for inclusion in a whitepaper that will be submitted to the ESG and PPG by the DPF. Note that the current US priorities can be found in the [2014 P5 report](#). These are not being reviewed at this time. Our goal for the submission to the European Strategy process is to have roughly 1-3 pages for each of the categories listed below.

Please email your submission to the DPF at dpfstrategy@fnal.gov with the appropriate category name and number in the subject line.

DPF Whitepaper Categories

1. Use of the Higgs boson as a tool for further inquiry
2. Investigation of the physics of neutrino mass
3. Investigation of the physics of dark matter

4. Investigation of the physics of dark energy and cosmic inflation
5. Exploration of new particles, interactions, and physics principles
6. Future accelerators
7. Computing
8. Detector R&D
9. Other

More Information

The European particle physics community is preparing its updated strategy. The formal opening of the process will begin with appointments of two groups by the CERN Council in September 2018: the European Strategy Group (ESG) will establish the updated draft of the strategy and the Physics Preparatory Group (PPG) will prepare the scientific contribution to the work of the ESG via the "Briefing Book", which is based on the input it gathers from the world-wide community. One representative from the Americas will serve on the PPG. The CERN Council aims to adopt the updated strategy in May 2020.

The timeline for the DPF whitepaper is summarized here:

Dates in 2018	Process
Until October 8 th	Collect input from the US DPF community via email at dpfstrategy@fnal.gov
October 9 th -November 11 th	Draft white paper
November 12 th -December 2 nd	Post the draft for feedback from the DPF community
December 3 rd -December 16 th	Finalize the draft
December 17 th	Submit paper to and post it on the DPF bulletin site

General Editors: Kate Scholberg, Elizabeth Worcester, Joe Incandela

1. Use of the Higgs boson as a tool for further inquiry

Theory: Sally Dawson, Experiment: Markus Klute

2. Investigation of the physics of neutrino mass

Theory: Andre de Gouvea, Experiment: Sam Zeller

3. Investigation of the physics of dark matter

Theory: Rouven Essig, Experiment: Prisca Cushman

4. Investigation of the physics of dark energy and cosmic inflation

Theory: Scott Dodelson, Experiment: Bhuv Jain

5. Exploration of new particles, interactions, and physics principles

Theory: Bogdan Dobrescu, Experiment: Zachary Marshall

6. Future accelerators

Theory: Tao Han, Experiment: Meenakshi Narain, Machine: Vladimir Shiltsev

7. Computing: Oliver Gutsche and David Miller

8. Detector R&D: Ron Lipton and Kim Palladino

9. Other: This is a catch-all for any contributions that do not fit with the 8 mentioned above.

2. Bids for Hosting the DPF 2019 Meeting

We are now accepting bids from prospective hosts of the 2019 meeting. We expect anywhere from 300 to 500 participants. We wish to hold the meeting in the summer, avoiding the dates of the EPS HEP Conference (Ghent, July 10-17) and Lepton-Photon (Toronto, August 5-10), preferably on a campus with dormitory accommodations.

If you are interested in submitting a bid, please visit the websites of the previous DPF meetings to see the sort of information we require. The proposal should include information about the following required items: the proposed meeting dates; local accommodations, their cost and distance from the venue; meeting rooms sufficient to accommodate at least ten parallel sessions; an auditorium large enough for plenary sessions; adequacy of support staff; easy travel arrangements to minimize costs for participants; a (balanced) budget and proposed registration fee.

Please send proposals and any questions you might have to:

Kate Scholberg, Secretary/Treasurer of the DPF (schol@phy.duke.edu)
with a copy to Joe Incandela, Chair of DPF (Joseph.Incandela@cern.ch)

The deadline for the receipt of proposals is December 1, 2018.

The planned timeline for the decision is as follows:

1. Questions about the proposals from the DPF Executive Committee to the proponents by December 15, 2018.

2. Answers and any additional information by January 15, 2019.
3. Decision by January 31, 2019.

3. National Academics Astronomy and Astrophysics Decadal Survey (Astro 2020)

Every ten years, the U.S. Astronomy and Astrophysics community comes together to survey and prioritize the opportunities for the coming decade and beyond. Run by the National Academies, these 'Decadal Surveys' have widespread impact. The 2010 Survey was sponsored by NSF, NASA, and DOE, reflecting the breadth of connections to scientific fields, including particle physics. The 2010 Survey Report, "New Worlds New Horizons in Astronomy and Astrophysics", was one of the many important inputs to the most recent Snowmass and P5 processes. Preparations are now underway for the 2020 Survey, which is expected to start in early 2019. The information portal just went live (<http://nas.edu/astro2020.html>), and it includes a call for scientific white papers to be submitted in early January (http://sites.nationalacademies.org/cs/groups/ssbsite/documents/webpage/ssb_187932.pdf). An FAQ link and an email address for questions can also be found on that portal, which will be updated as more information becomes available.

Steve Ritz, University of California, Santa Cruz

4. Extension of DPF Instrumentation Award deadline

The Division of Particles and Fields of the American Physical Society has established awards to honor exceptional contributions to instrumentation. The period of nominations for the 2018 awards has been **extended to August 31**.

The DPF Instrumentation Award and DPF Instrumentation Early Career Award are bestowed annually to honor exceptional contributions to instrumentation advancing the field of particle physics through the invention, refinement, or application of instrumentation and detectors.

The **DPF Instrumentation Award** recognizes outstanding achievements in particle physics instrumentation that have had a major impact on the field through the awardee's dedication over a substantial portion of an entire career, while the **DPF Instrumentation Early Career Award** recognizes achievements having a significant impact at an early career stage. For the purpose of this award, the early career stage is taken to be approximately 15 years from a Ph.D. or other terminal degree, with due account for interruptions and other factors in nominees' careers.

Nominations for the award will be accepted through Academic Jobs Online (AJO) through **August 31, 2018**. Click the "Nominate" link on the 7th line under "Description."

It is important to remember the membership of APS is diverse and global, so the Prize and Award winners, as well as Fellows of APS, should reflect that diversity. Nominations of women,

members of underrepresented minority groups, and scientists from outside the United States are especially encouraged. Nominations of qualified junior scientists are especially welcome this year and in subsequent odd-numbered years.

We encourage you to distribute this notification. Thank you for your help in identifying candidates, and for your time and effort. We look forward to the nominations!

Petra Merkel (Chair), Rick Van Berg (Vice-Chair), on behalf of the award committee

5. CPAD Instrumentation Workshop 2018

The Coordinating Panel for Advanced Detectors (CPAD) of the APS Division of Particles and Fields will hold its fourth annual instrumentation workshop in Providence, RI from December 9-11, 2018. The workshop will be organized by Brown University.

The goal of the workshop is to survey the state of detector R&D for particle physics at the energy, intensity, and cosmic frontiers and to publish a report that summarizes the instrumentation needs of the physics drivers and the state of detector technology in the field and identifies promising technologies to pursue with further R&D.

The workshop will feature a plenary session with overview talks covering physics goals and instrumentation needs and then break into parallel working sessions to discuss specific detector technologies in more detail. A poster session will provide additional opportunity for participants to present their work. The working groups come together again for discussions and summary presentations at the end of the meeting.

Registration and abstract submission will open in September. Limited funds to support the attendance of junior scientists are available and will be awarded on a first come-first served basis. The dead line for applying for financial support and early registration (\$100 discount) is October 31. For more details see <http://www.brown.edu/Conference/CPAD2018>.

On behalf of the scientific program and local organizing committees

Zeeshan Ahmed (SLAC)
Marina Artuso (Syracuse University)
Tulika Bose (Boston University)
Hucheng Chen (BNL)
Marcel Demarteau (Argonne)
Maurice Garcia-Sciveres (LBNL)
Roxanne Guenette (Harvard University)
Ulrich Heintz (Brown University)
David Hume (NIST)
Ron Lipton (Fermilab)
Petra Merkel (Fermilab)

Meenakshi Narain (Brown)
Kimberly Palladino (University of Wisconsin)
Raphael Pooser (Oak Ridge National Lab)
Kate Scholberg (Duke University)
Ian Shipsey (Oxford University)
Rick Van Berg (University of Pennsylvania)
Bob Wagner (Argonne)
Jeph Wang (Los Alamos)

6. DPF Election Coming Up

The election for DPF vice chair, division councilor, members-at-large, and early career member will be initiated shortly. You should receive an email message on or around Friday, September 7, 2018, that contains instructions for voting, and has a personalized link that you should follow to find your ballot. The message will be sent from the domain directvote.net. Please ensure that this email domain is whitelisted in your spam filters to avoid the message being sent to your spam folder.

When you receive the election notice from directvote.net, please click on the link provided or cut and paste the link into your browser to log onto the election website.

The candidates' bios and statements will be found on the DPF website and will also be on the election website by the end of August.

Voting in the DPF election is an important activity! Your participation in the DPF election is very much appreciated. Thank you very much for your support.

Kate Scholberg
DPF Secretary/Treasurer