

March 2023 DPF Newsletter

Dear DPF members,

Please find below the monthly DPF newsletter for March 2023. This newsletter will be archived on the [DPF website](#). If you would like an announcement included in the April 2023 newsletter, to be sent out around mid-April, please contact the DPF Secretary/Treasurer. Please keep requests to 300 words and submit them by the **10th of the month** for consideration.

Tulika Bose, Secretary/Treasurer, tulika@hep.wisc.edu

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P5 Town Hall at Fermilab/Argonne (March 21-23, 2023)

Dear colleagues,

The next P5 town hall will be held on March 21-23, 2023 at Fermilab and Argonne National Laboratories. This meeting is part of a series of town halls for the P5 panel to learn the aspirations of the community and gather information on cost and schedule of proposed projects.

P5, the Particle Physics Project Prioritization Panel, makes recommendations on the next 10 years of the US particle physics program within the 20 year context to HEPAP, which advises DOE and NSF. It builds on the extensive community involvement in the Snowmass study.

This meeting will cover neutrino physics, rare processes and precision frontier, as well as high-energy astrophysics. It will feature a set of invited talks on the scientific opportunities as well as concrete projects. It will also provide an opportunity for community members to make (short) remarks about their vision for the field, exciting science, projects, and issues of the community.

All are invited to attend. In particular, we encourage the participation of early career scientists. This is a great opportunity to hear talks on some of the most exciting opportunities in our field and add your voice to the discussion!

The town hall will be a hybrid event. The event is free but participants must register. To allow enough time for site access we ask you (and in particular foreign nationals and green card holders) to register immediately.

For more information and to register please visit <https://indico.fnal.gov/event/58272/>

Registration for **in-person** participation will **close at 9:00am Central time on March 16th** but remote participants can register at any time. Zoom information will be provided for all registered participants in your confirmation email.

We look forward to seeing you at FNAL/ANL!

Hitoshi Murayama, P5 Chair, Karsten Heeger, P5 Deputy Chair
R. Sekhar Chivukula, DPF Chair

DPF/APS Meenakshi Narain Mentoring Award

The DPF Executive Committee is honored to dedicate the DPF Mentoring Award in honor of [Prof. Meenakshi Narain](#) of Brown University, who passed away unexpectedly on Jan. 1, 2023. The [DPF mentoring award](#) recognizes scientists who are committed to and excel at mentoring early-career scientists, especially junior scientists from under-represented backgrounds. The mentoring award was first given in 2015, and has recognized a prominent group of our high-energy colleagues.

APS and DPF believe the dedication of this award for Meenakshi Narain is particularly appropriate. Prof. Narain was a passionate mentor who was committed to expanding representation in particle physics. Her commitment to science and her care for the high-energy physics community and for the people in it had a lasting impact. You can get an overview of Prof. Narain's many contributions to particle physics and its community by reviewing the slides and/or recordings from the [memorial symposium](#) held recently in her honor.

In conjunction with this dedication, APS and DPF are raising \$150K in endowment funds to add a monetary stipend. Successfully completing this endowment drive would make the Narain Mentoring Award eligible to become an APS society-level award, enhancing its stature and impact. We note that the Narain Award, if elevated to a society-level honor, would become only one of seven such awards dedicated to a woman scientist, and only one of two dedicated to a woman scientist of color.

The fund-raising website for the Narain endowment can be found here:

<https://aps.org/about/support/narain-mentor.cfm>

Please consider donating as you are able. Please share widely with those who may be interested. Any donation would represent a wonderful dedication of Prof. Narain's legacy, and an investment in the future of our U.S. high-energy physics community.

Best Regards,

R. Sekhar Chivukula, 2023 DPF Chair, for the DPF Executive Committee

Nominations for APS/DPF award selection committees (Deadline: April 7th)

DPF is soliciting **nominations for individuals to serve on the following award selection committees** (nominations for the awards themselves must be submitted through the APS Awards site, see individual links below) for two-year terms (2023 & 2024):

1. [Henry Primakoff Award for Early-Career Particle Physicists](#)
2. [J. J. Sakurai Prize for Theoretical Physics](#)
3. [Robert R. Wilson Prize for Achievement in the Physics of Particle Accelerators](#) (with [DPB](#))
4. [W.K.H. Panofsky Prize in Experimental Particle Physics](#)
5. [J. J. and Noriko Sakurai Dissertation Award in Theoretical Particle Physics](#)
6. [Mitsuyoshi Tanaka Dissertation Award in Experimental Particle Physics](#)
7. [DPF Mentoring Award](#)

In most cases we seek a Vice Chair (who will serve as Chair the next year) as well as one additional member. As part of the nomination, select the committees you believe the nominee should be considered for and please briefly describe their qualifications to serve on the committee(s) chosen.

We seek candidates based both at universities and laboratories, and of differing seniority (as appropriate to the awards being reviewed). Nominations of members belonging to groups traditionally underrepresented in physics, such as women scientists, LGBT+ scientists, scientists who are Black, Indigenous, and people of color (BIPOC), disabled scientists, and scientists from institutions with limited resources are especially encouraged.

Members of selection committees should be [members of APS/DPF](#) and agree to follow the APS award committee guidelines on "[Conflicts of Interest](#)."

Nominations are due by April 7th, 2023. Self nominations are welcome.

Questions about the nomination process can be directed to 2023 DPF Chair R. Sekhar Chivukula (rschivukula@ucsd.edu).

Please submit your nominations at <https://forms.gle/jfXU2827E3ikjf5x6> .

EPP Town Hall at Fermilab (March 21, 2023)

Join Us for a Town Hall on the Future of Elementary Particle Physics!

Share your ideas on the future of elementary particle physics by joining us for a town hall meeting on **March 21, 2023 at 9am CT** in Ramsey Auditorium at the Fermilab campus (or online).

The town hall is part of an ongoing National Academies' study ([EPP-2024](#)) that will set a long-term, compelling vision for the field of elementary particle physics. The study committee hopes to hear ideas on the following topics:

- The big scientific questions that underpin the field
- The tools—new and old—that are needed to address them
- New ideas and approaches that can be incorporated from other fields
- Challenges that the field and its members face and how they might be addressed
- Workforce or structural issues

Learn more about the event and download the agenda [here](#).

Watch the webcast [here](#).

Maria Spiropulu & Michael S. Turner

Nominations for APS Fellowship - DPF Deadline June 1, 2023

The APS Fellowship Program was created to recognize members who have made advances in physics through original research and publication, or made significant innovative contributions in the application of physics to science and technology. They may also have made significant contributions to the teaching of physics or service and participation in the activities of the Society.

Fellowship is a distinct honor signifying recognition by one's professional peers. Each year, no more than one half of one percent of the Society's membership (excluding student members) is recognized by their peers for election to the status of Fellow of the American Physical Society.

Nominations of DPF members for fellowship are due by **June 1, 2023**, and the process for nomination is explained here:

<https://www.aps.org/programs/honors/fellowships/nominations.cfm#hTab-submission-427633-3>

All nominees for APS Fellowship are required to meet the standards of professional conduct and integrity as described by the [APS Ethics Guidelines](#).

Nominations for APS Fellowship are valid for two years - *however, please note that carryover nominations do not automatically enter the nomination pool*. Nominators are required to recertify the nominee's adherence to the standards of conduct in the APS Ethics Guidelines, either in its original form or with updates, before the deadline in order to ensure consideration during the second year.

CPAD News

The APS/DPF Coordinating Panel for Advanced Detectors (CPAD) has held their very successful annual workshop on Detector R&D at Stony Brook University in November of 2022 ([2022 CPAD Workshop](#)). The workshop was held in hybrid mode with 141 in person participants and an additional 169 remote attendees. About half the participants self identified as early career colleagues. Many recent R&D results were presented across a large breadth of technologies, physics topics and methods. Particular attention was paid to synergies between detectors for HEP and NP, especially the Electron Ion Collider. In addition, the creation of R&D Collaborations in the US along specific technologies, as well as workforce development in readout electronics were discussed in depth. CPAD is committed to organize the initial creation of these collaborations. As a first step we would like to gauge the interest in the community for each of the major detector technologies and methodologies. To this end we have created mailing lists to which people should subscribe. We will then circulate directed surveys to each of the lists with the goal to organize kick-off workshops. Please see for further information here: [CPAD R&D Collaborations](#).

CPAD has also seen a turn-over of the members of its Executive Committee and chairline. Jonathan Asaadi from the University of Texas, Arlington, has taken over from Karsten Heeger, Yale University, and will serve as Vice Chair together with Petra Merkel, Fermilab (Chair) for 2023, before taking over as Chair in 2024. Finishing their term on the Executive Committee are Brad Benson (Fermilab), Maurice Garcia-Sciveres (LBNL), Roxanne Guenette (University of Manchester), Ulrich Heintz (Brown University), Rick Van Berg (University of Pennsylvania), Karl Van Bibber (UC Berkeley) and Lindley Winslow (MIT). We would like to thank these colleagues for their dedication and services in this role in advancing detector instrumentation in the US. We would also like to welcome the new members that started their two year term: Carmen Carmona (Penn State University), Noah Kurinsky (SLAC), Sally Seidel (University of New Mexico), Michelle Stancari (Fermilab) and Aritoki Suzuki (LBNL). They will work alongside the ongoing members, Marina Artuso (Syracuse University), David Asner (BNL), Kim Palladino (Oxford University), Steve Worm (DESY) and Jinlong Zhang (ANL).

Phenomenology Symposium 2023 (PHENO 2023)

May 8-10, 2023, Pittsburgh, PA

in-person format with live-streaming of plenary talks

Registration deadline: April 30, 2023

The 2023 Phenomenology Symposium (PHENO 2023) will take place during May 8-10, 2023 organized by the PITT PACC at the University of Pittsburgh. All talks at the symposium are expected to be in person. Full vaccination for COVID is required for the speakers and in-person participants. Plenary talks will be made available to online participants.

PHENO 2023
Latest topics in particle physics and related issues in astrophysics and cosmology
University of Pittsburgh May 8-10, 2023
Register: indico.cern.ch/e/pheno23

Organizers
Brian Batell
Amit Bhoonah
Arnab Dasgupta
Ayres Freitas
Joni George
Akshay Ghalsasi
Gracie Gollinger
Tao Han (Chair)
Adam Leibovich
Matthew Low
Keping Xie

Program Advisors
Vernon Barger
Lisa Everett
Kaoru Hagiwara
JoAnne Hewett
Tae Min Hong
Arthur Kosowsky
James Mueller
Vittorio Palone
Tilman Plehn
Vladimir Savinov
Xenias Tata
Andrew Zentner
Dieter Zeppenfeld

With financial support from DOE and NSF

Jets, dark sectors, and other mysteries...

Photo Credit: Dakota Swagerty https://commons.wikimedia.org/wiki/File:Point_State_Park_Pittsburgh_PA.jpg

The Symposium will cover current issues in particle physics phenomenology, theoretical developments, and recent experimental results, ranging from low energy phenomena over collider physics to astro-particle physics and cosmology. The Symposia are attended by experimental and theoretical physicists in roughly equal numbers, with a large number of junior participants. The broad plenary and parallel sessions provide an excellent forum for discussions. There will be a “Forum on early career development” on Monday, May 8 at lunchtime.

The registration and parallel talk submission are open now. Parallel talk submission deadline is April 23, 2023. For registration and further information, please visit the web site at <https://indico.cern.ch/event/1218225/>.

We look forward to seeing you at Pheno 2023!

Pheno 2023 organizers:

Brian Batell, Amit Bhoonah, Arnab Dasgupta, Ayres Freitas, Joni George (contact person), Akshay Ghalsasi, Gracie Gollinger (technical support), Tao Han (chair), Adam Leibovich, Matthew Low, Keping Xie

Leon Lederman Seminar Series

The Leon Lederman Seminar Series continues with the following seminars: Marcela Carena talks about the hidden Universe on March 9th and on March 24th there is a review of the Stern Gerlach experiment by Julián Félix. The Seminars are in Spanish, however Facebook captions are available. Recordings will be available afterwards.



SEMINARIOS LEON LEDERMAN
International Day of Women



El Universo Oculto
Marcela Carena

FERMILAB Senior Scientist,
Enrico Fermi Institute, Kavli Institute for Cosmological
Physics, and the College
Chair of the Division of Particles and Fields of the
American Physical Society

Modera y Vincula al público **Julián Félix**
DCI CL UGTO

JUEVES 9 DE MARZO DE 2023

16:00 hrs. Centroamérica
16:00 hrs. México/CST
17:00 hrs. CST-Bogotá
19:00 hrs. Buenos Aires
23:00 hrs. Madrid

registro: <https://bit.ly/universooculto>
transmisión: <http://bit.ly/envivolab>
escuelarayoscsmicos@gmail.com
evento gratuito. Se otorga constancia previo registro al evento.



SEMINARIOS LEON LEDERMAN



Julián Félix
U. Guanajuato,
Fermilab Associated Professor

**El Experimento de
Stern Gerlach**

JUEVES 23 DE MARZO DE 2023

16:00 hrs. Centroamérica
16:00 hrs. México/CST
16:00 hrs. CST-Bogotá
19:00 hrs. Buenos Aires
23:00 hrs. Madrid

registro: <https://bit.ly/sterngerlach100años>
escuelarayoscsmicos@gmail.com
transmisión: <https://bit.ly/vivolab>
evento gratuito. Se otorga constancia