

# **DPF Program Committee Meeting December 8, 2017 Agenda**

Welcome and Introductions

APS and DPF Committees and Organization

Tao Han, Marcela Carena

April Meeting Planning

Prisca Cushman

DPF Program Committee Mission

Discussion

## **DPF Program Committee**

Bob Bernstein

Sheldon Stone

Tom Browder

Patricia Vahle

Mayly Sanchez

Matt Graham

Matthew Szydagis

Rafael Lang

Jodi Cooley

Tom Diehl

Stefano Profumo

Tim Tait

Roger Rusack

Chris Hill

Stephen Sekula

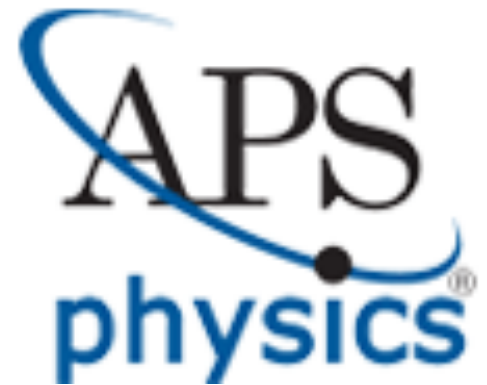
Mayda Velasco

Jim Olsen

Dmitri Denisov

Ex officio: Tao Han, Young Kee Kim, Priscilla Cushman

# About APS



## Mission Statement

The American Physical Society strives to:

- Be the leading voice for physics and an authoritative source of physics information for the advancement of physics and the benefit of humanity;
- Provide effective programs in support of the physics community and the conduct of physics;
- Collaborate with national scientific societies for the advancement of science, science education and the science community;
- Cooperate with international physics societies to promote physics, to support physicists worldwide and to foster international collaboration;
- Promote an active, engaged and diverse membership, and support the activities of its units and members.

## Society Governance

APS is a membership organization. The Presidential line is elected by the entire membership and consists of four persons, who rotate through one-year terms as Vice President, President-Elect, President, and Past President.

### Officers



**President**  
[Laura Greene](#)



**President-Elect**  
[Roger Falcone](#)

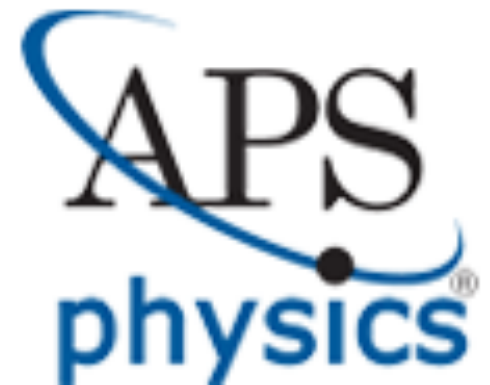


**Vice President**  
[David Gross](#)



**Past President**  
[Homer Neal](#)

# About APS



## Divisions

[Atomic, Molecular & Optical Physics \(DAMOP\)](#)  
[Astrophysics \(DAP\)](#)  
[Biological Physics \(DBIO\)](#)  
[Chemical Physics \(DCP\)](#)  
[Computational Physics \(DCOMP\)](#)  
[Condensed Matter Physics \(DCMP\)](#)  
[Fluid Dynamics \(DFD\)](#)  
[Gravitational Physics \(DGRAV\)](#)  
[Laser Science \(DLS\)](#)  
[Materials Physics \(DMP\)](#)  
[Nuclear Physics \(DNP\)](#)  
[Particles and Fields \(DPF\)](#)  
[Physics of Beams \(DPB\)](#)  
[Plasma Physics \(DPP\)](#)  
[Polymer Physics \(DPOLY\)](#)  
[Quantum Information \(DQI\)](#)

## Forums

[Early Career Scientists \(FECS\)](#)  
[Education \(FEd\)](#)  
[Graduate Student Affairs \(FGSA\)](#)  
[History of Physics \(FHP\)](#)  
[Industrial and Applied Physics \(FIAP\)](#)  
[International Physics \(FIP\)](#)  
[Outreach and Engaging the Public \(FOEP\)](#)  
[Physics and Society \(FPS\)](#)

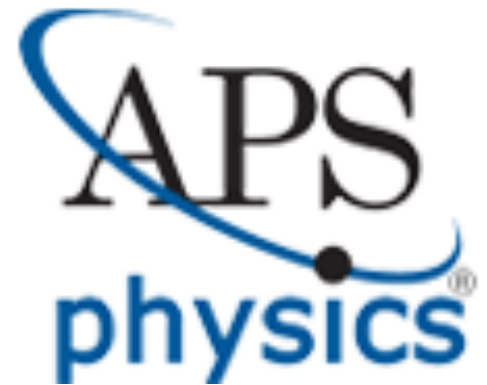
## Sections

[Far West Section \(FWS\)](#)  
[Four Corners \(4CS\)](#)  
[Mid-Atlantic \(MAS\)](#)  
[New England \(NES\)](#)  
[New York State \(NYSS\)](#)  
[Northwest \(NWS\)](#)  
[Ohio-Region \(OSAPS\)](#)  
[Prairie Section \(PSAPS\)](#)  
[Southeastern \(SESAPS\)](#)  
[Texas \(TSAPS\)](#)

## Topical Groups

[Energy Research and Applications \(GERA\)](#)  
[Few-Body Systems \(GFB\)](#)  
[Hadronic Physics \(GHP\)](#)  
[Instrument and Measurement Science \(GIMS\)](#)  
[Magnetism \(GMAG\)](#)  
[Medical Physics \(GMED\)](#)  
[Physics Education Research \(GPER\)](#)  
[Plasma Astrophysics \(GPAP\)](#)  
[Precision Measurement & Fundamental Constants \(GPMFC\)](#)  
[Physics of Climate \(GPC\)](#)  
[Shock Compression of Condensed Matter \(GSCCM\)](#)  
[Soft Matter \(GSOFT\)](#)  
[Statistical and Nonlinear Physics \(GSNP\)](#)

# About April Meeting



## Meetings & Events

APS annual meetings are attended by thousands of physicists, scientists, and journalists from around the world. They offer valuable opportunities for presenting research, sharing insights, and networking, as well as related workshops and activities for scientific discussion, professional development, improving education, and science advocacy.

### APS March Meeting 2018

March 5-9, 2018

Los Angeles, CA

For DCMP, DCP, DBIO, DMP, ...

### APS April Meeting 2018

April 14-17, 2018

Columbus, OH

For DPF, DNP, DAP, DGRAV, DPB and DCOMP  
Plus FPS, FEd, FGSA, GPMFC, and GPER

2018 Chair line:

2018 Chair: Cliff Will (DAP)

Chair Elect: John Wilkerson (DNP)

Vice Chair: Tao Han (DPF)

Past Chair: Dan Holz (DGRAV)



## APRIL MEETING 2018

April 14-17, 2018 Columbus, Ohio

[About](#) | [Schedule](#) | [Abstracts](#) | [Registration](#) | [Hotel & Travel](#) | [Meeting Services](#) | [Exhibits](#)

### APS April Meeting 2018 Columbus, Ohio April 14-17, 2018

<http://www.aps.org/meetings/april/about.cfm>

The APS April Meeting encapsulates the full range of physical scales, from "Quarks to the Cosmos (Q2C)". Research will be presented on topics from [19 participating APS units](#) including particle physics, nuclear physics, astrophysics, and gravitation. The 2018 theme is a "Feynman Century," which will be broadly examined through speakers and scientific sessions.

**Venue:** Greater Columbus Convention Center

**Join Us at the APS April Meeting 2018**

- [Submit an Abstract](#)
- [Register for the Meeting](#)
- [Book a Hotel Room](#)

#### Code of Conduct

All meeting participants are expected to abide by the [Code of Conduct for APS Meetings](#).



#### Jan 12 Abstract Submission Deadline

You must be an APS member or a reciprocal society member to submit an abstract.

[Submit an Abstract](#)

#### Mar 02 Early Registration Deadline

Registration fees go up as the meeting gets closer. Save money by registering early.

[Register for the Meeting](#)

#### Mar 15 Hotel Reservation Deadline

Hotels may sell out before the reservation deadline so book as early as possible.

[Reserve a Hotel Room](#)



Plenary and Public Talks are the only ones not in parallel

Invited Talks are decided early - DPF has 10 sessions to fill. 3 talks per session

Contributed Talks are initiated by abstract submission

*assigned to sessions during the Sorter's Meeting – January 19 at APS*

*all abstracts must be accepted (crackpot session), but we can advise*

Saturday, April 14	Sunday, April 15	Monday, April 16	Tuesday, April 17
7:00am-5:00pm Registration	8:00am-4:00pm Registration	8:00am-4:00pm Registration	8:00am-11:00am Registration
<b><u>Block 1</u></b> 8:30am - 10:18am Plenary Session I	<b><u>Block 1</u></b> 8:30am - 10:18am <i>Invited and contributed</i>	<b><u>Block 1</u></b> 8:30am - 10:18am Plenary Session II	<b><u>Block 1</u></b> 8:30am-10:18am Plenary Session III
<b><u>Block 2</u></b> 10:45am -12:33pm <i>Invited and contributed</i>	<b><u>Block 2</u></b> 10:45am - 12:33pm <i>Invited and contributed</i>	<b><u>Block 2</u></b> 10:45am - 12:33pm <i>Invited and contributed</i>	<b><u>Block 2</u></b> 10:45am-12:33pm <i>Invited and contributed</i>
<b><u>Block 3</u></b> 1:30pm - 3:18pm <i>Invited and contributed</i>	<b><u>Block 3</u></b> 1:30pm - 3:18pm <i>Invited and contributed</i>	<b><u>Block 3</u></b> 1:30pm-3:18pm <i>Invited and contributed</i>	<b><u>Block 3</u></b> 1:30pm-3:18pm <i>Invited and contributed</i>
<b><u>Block 4</u></b> 3:30pm - 5:18pm <i>Invited and contributed</i>	2:00pm - 5:00pm Poster Session II*	2:00pm – 5:00pm Poster Session III	<b><u>Block 4 (if required)</u></b> 3:30pm-5:18pm <i>Invited and contributed</i>
5:30pm – 7:00pm Poster Session I*	<b><u>Block 4</u></b> 3:30pm - 5:18pm <i>Invited and contributed</i>	<b><u>Block 4</u></b> 3:30pm - 5:18pm <i>Invited and contributed</i>	
5:30pm – 7:00pm Welcome Reception	5:30pm-7:00pm Awards Ceremony	5:30-6:30pm Unit Business Meetings	
7:00pm Public Lecture	8:00pm Special Symposium	7:30pm Special Symposium	
7:00pm Special Symposium			

\* Note: Scheduling of poster sessions depends on the number of posters.

# Invited Talks

**Nominator:** Cushman, Priscilla

<input type="checkbox"/>	Ctrl #	Speaker	<u>Nominator</u>	<u>Session Title</u>
<input checked="" type="checkbox"/>	<u>* 99054</u>	<u>Spkrs(3, 1)</u>	<u>Berti, Emanuele</u>	<u>Gravitational Waves and Dark Matter Searches (Primary Unit: DGRAV)</u>
<input checked="" type="checkbox"/>	<u>* 99071</u>	<u>Spkrs(3, 1)</u>	<u>Natarajan, Priyamvada</u>	<u>HIGH ENERGY PARTICLE ASTROPHYSICS (Primary Unit: DAP)</u>
<input type="checkbox"/>	<u>99081</u>	<u>Spkrs(3, 1)</u>	<u>Cushman, Priscilla</u>	<u>The Energy Frontier: Results from the LHC</u>
<input checked="" type="checkbox"/>	<u>* 99082</u>	<u>Spkrs(3, 1)</u>	<u>Walker, Thad</u>	<u>Hidden Sector Searches at the Sensitivity Frontier (Primary Unit: GPMFC)</u>
<input type="checkbox"/>	<u>99083</u>	<u>Spkrs(4, 1)</u>	<u>Cushman, Priscilla</u>	<u>The High Luminosity LHC Upgrade and New Physics Windows</u>
<input type="checkbox"/>	<u>99084</u>	<u>Spkrs(3, 1)</u>	<u>Cushman, Priscilla</u>	<u>Understanding the Neutrino Sector</u>
<input type="checkbox"/>	<u>99085</u>	<u>Spkrs(3, 1)</u>	<u>Cushman, Priscilla</u>	<u>Exotic hadrons from the LHC and B-Factories</u>
<input type="checkbox"/>	<u>99087</u>	<u>Spkrs(3, 1)</u>	<u>Cushman, Priscilla</u>	<u>Celebration of the 40th Anniversary of the Time Projection Chamber (Join Unit: DNP)</u>
<input type="checkbox"/>	<u>99088</u>	<u>Spkrs(3, 1)</u>	<u>Cushman, Priscilla</u>	<u>New Results and Challenges in WIMP Direct Detection</u>
<input type="checkbox"/>	<u>99090</u>	<u>Spkrs(3, 1)</u>	<u>Cushman, Priscilla</u>	<u>Sakurai and Panofsky Prize</u>
<input type="checkbox"/>	<u>99091</u>	<u>Spkrs(3, 1)</u>	<u>Cushman, Priscilla</u>	<u>Frontier Physics enabled by New Facilities</u>
<input type="checkbox"/>	<u>99092</u>	<u>Spkrs(3, 1)</u>	<u>Cushman, Priscilla</u>	<u>New Approaches to Direct Dark Matter Searches</u>

[Delete Session(s)]

## Invited Talks

[illegible]



# Invited Talks

Monday 4/16	10:45 - 12:33	DPF 99091 Frontier Physics enabled by New Facilities	DCOMP/DAP 99065 THE BOLD NEW ERA OF BIG DATA & MACHINE LEARNING	FIP/FECS 99036 Prize Winners	DGRAV/DAP 99052 Gravitational wave sources: Compact binary formation scenarios	FPS 99029 Science Advocacy	GPFR/FEd 99026 Physics Education Research: Network Analysis, Institutional Change, and Troubleshooting in Laboratories	GHP/DNP 99078 Structure of the pion and Kaon as a theater for QCD.
	13:30 - 15:18	DPF 99085 Exotic Hadrons (including Tanaka)	DNP/GHP 99077 Axial structure of the nucleon	DAP/DGRAV 99074 THEORY OF EM COUNTERPARTS TO GW EVENTS	DGRAV 99047 Developments in gravitational theory	FHP 99076 The Legacy of Richard Feynman	FEd 99043 FEd Effective Practices for Program Review and Improvement: APS Task Force preliminary report	
	15:30 - 17:18	DPF/DGRAV 99054 Gravitational waves and dark matter searches	DNP Prize/Award session. (Faculty, Feshbach, and Bonner)	DAP/FHP 99066 HISTORY OF WOMEN PIONEERS IN ASTRONOMY	RESERVED	RESERVED	FIP 99034 Physics Experiments in Antarctica, What They Tell Us about the South Pole and the Changing Climate	
Tuesday 4/17	10:45 - 12:33	DPF 99081 Energy Frontier: LHC 1	FPS 99030 Policy and the Trump Admin.	DAP 99062 MAPPING THE LOCAL UNIVERSE	DGRAV 99051 Unveiling massive black holes	FIP 99035 Progress and Challenges for Women Physicists in Africa, Asia, and the Middle East	FEd 99042 FEd Preparing graduate students for careers outside academia	
	13:30 - 15:18	DPF 99083 The High Luminosity LHC Upgrade and New Physics Windows	DNP/GFB/GHP 99080 Weakly bound systems	DAP 99064 LENSING PROBES OF DARK MATTER	DGRAV/DAP 99053 Low-frequency gravitational wave astronomy	FHP/DGRAV 99057 The Chapel Hill Conference and its role in the Renaissance of General Relativity		

# Contributed Talk Session Types

**Contributed Session:** A session of all contributed talks that is organized at the sorters meeting on a topic that was not chosen ahead of time but which emerges out of the randomly submitted abstracts. It consists of a maximum of 9 contributed abstracts to be presented in the 108-minute time block. This allows each abstract 10 minutes for presentation and 2 minutes for questions/discussion.

**Combined Session:** A session that combines contributed and invited talks, organized at the sorters meeting based on a topic that was not chosen ahead of time, and for which contributed papers were not actively solicited; consists of one invited talk and 6 contributed talks.

**Focus Session:** Usually one physics focus. We can assign these during the sorting, but should be arranged ahead of time based on communication with interested parties. Often starts with a longer talk

**Mini-symposia:** Similar, but more interdisciplinary. E.g. based on common technologies rather than physics. DNP uses this a lot. E.g. a mini-symposium on low background techniques.

# Contributed Talks

Abstracts are submitted with the following categories

- F1. Higgs Physics
- F2. Electroweak Physics
- F3. Top-Quark Physics
- F4. Quark Flavor Physics
- F5. Charged Lepton Interactions
- F6. Neutrino Physics: Results and New Initiatives
- F7. Neutrino Experiments: Backgrounds, Systematic Errors and Simulations
- F8. Strong Interactions and Hadron Physics
- F9. Supersymmetry Searches and Models
- F10. Alternative Beyond the Standard Model Physics
- F11. Dark Sector Theories and Searches
- F12. Particle Cosmology
- F13. Theoretical Results
- F14. Detector R&D and Performance
- F15. Computing and Data Handling (same as Q6)

Need communication with the contributors BEFORE abstract submission or between submission and the deadline.

This is where the Program Committee can help out: Social engineering behind the scenes.

## Schedule (already done)

### 2017

January 30	Committee meets at April 2017 in Washington, DC, 12:30-2:00 PM
July 14	Changes to sorting categories due to Vinaya Sathyasheelappa at <a href="mailto:vinaya@aps.org">vinaya@aps.org</a>
September 22	First April Meeting announcement and call for abstracts posted to web-site
October	Notify program chairs of award and prize winners
October 20	Deadline for unit program chairs to submit final invited session information to Invited database (consult Ebony Adams at <a href="mailto:adams@aps.org">adams@aps.org</a> for help)
November 3	April Program Committee meets via teleconference (11:00 AM EST) Invited sessions placed
December 15	April invitation letters sent from APS by e-mail to invited speakers

## Schedule (still to be done)

- January 12: Abstract deadline
- January 19: Sorters Meeting at APS (Friday). Need a list of chairs for sessions.
- January 26: Program will be posted to the web for the Program Committee to review. |  
Review the placement of your sessions as decided at the sorters meeting.
- February 2: The Program Committee's review and corrections must be completed
- February 12: April program goes public after incorporating Committee edits
- February 16: Post-deadline abstracts due. Assigned to posters if space available.
- March 2: Early registration deadline



## Program Committee Jobs

1. Immediate Help for the April Meeting
  1. Assign committee members to the sorting categories
  2. Get permissions (and instructions) to look at the abstract submissions
  3. Pro-actively investigate/encourage abstract submission in your category
  4. Assign chairs to the sessions before the sorter's meeting
2. Attend April meeting if possible and join the executive business meeting
  - Remote participation should be possible.
  - Satellite meeting of just the program committee
3. Consider the broader mission of the Program Committee
  1. Mission statement
  2. Presence on the website
  3. By laws – including nomination, terms, election
  4. Jobs within the committee
4. Help with the NEXT April meeting (Joint with March – Boston 2019)

# Program Committee Mission

How can this committee encourage a more active membership in DPF

April meeting might be a place to start:

Compare to the March meeting for condensed matter or AAS for Astrophysics

These provide a forum for an entire community to get together and explore not only the physics, but also other issues that impact the community

e.g. Mental health issues, grad student advancement, funding shortfalls, public policy.

When DOE and NSF want to get community input, they should come to us.

Only works if we can provide an organized and proactive community .

Right now, we tend to be led by the funding agencies

Snowmass Process is another obvious way to begin building a community-driven physics roadmap.

Other ideas?????

## **Sorters Meeting**

The sorters meeting for the April meeting program will take place Friday, January 19, 2018 at APS Headquarters located in the American Center for Physics, One Physics Ellipse, College Park, MD 20740. Program Chairs and unit representatives sort contributed papers into sessions. At least one representative from each unit is expected to stay for the entire sorters meeting to ensure that the unit's sessions are completely and accurately placed prior to departure. This is also the time to complete identification and confirmation of chairs for all of the unit's sessions.

Please note that all costs associated with unit representatives' travel to the sorters meetings are charged to the respective units.

## **Unit Business/Executive Committee Meetings**

Please be prepared to schedule your unit's business meeting at the Sorters Meeting on January 19, 2018. Business meetings traditionally take place on Monday evening at the April Meeting. This information will appear in both the electronic and print versions of the Bulletin. In addition, you may choose to have an executive committee meeting during the Meeting.