# Fostering a culture of belonging in the low-energy nuclear physics community

W.F. Rogers, Indiana Wesleyan University NSAC Town Hall Meeting

Argonne National Laboratory, 14-16 November 2022

W.F. Rogers, Indiana Wesleyan University NSAC Town Hall Meeting Fostering a culture of belonging in the low-energy nuclear physics community

# NSAC charge and DEIB working group conveners

From NSAC charge: "The document should also articulate how efforts to promote and sustain a diverse, equitable, and inclusive nuclear science workforce will be fully integrated into every aspect of the vision for the future of U.S. nuclear science."

Diversity, Equity, Inclusion, and Belonging (DEIB) working group conveners: Daniel Aka Ayangeakaa (UNC), Paul Gueye (FRIB/MSU), Stephanie Lyons (PNNL), WFR (IWU), Alejandro Sozogni (BNL), Vandana Tripathi (FSU)

In tomorrow's DEIB working group session we will hear on the following:

- Reports on DEIB efforts at DOE, NSF, AIP, APS, DNP
- Outreach efforts at National Labs, Universities, N3AS NSF Physics Frontier Center
- Retention of minority students at MSIs, APS vs. NSBP
- Community Survey sponsored by the DNP DEI Committee
- GeMSS (Gender Minorities in Social Sciences) program at recent DNP meeting
- LGBTQ+ culture at BNL
- Support for transgender staff/students
- Summer camp for ASD students
- Financial stress for physics graduate students

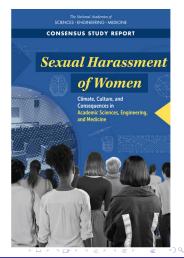
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# 2018 National Academy of Sciences Report

Sexual Harassment of Women: Climate, Culture, and Consequences in Academic Sciences, Engineering, and Medicine (https://doi.org/10.17226/24994)

Sexual harassment is broadly defined as *unwelcome* or inappropriate behavior of a sexual nature that creates an uncomfortable or hostile environment

- Gender harassment (verbal and nonverbal behaviors that convey hostility to, objectification of, exclusion of, or second-class status about members of one gender)
- Unwanted sexual attention (verbally or physically unwelcome sexual advances, which can include assault)
- Sexual coercion (when favorable professional or educational treatment is conditioned on sexual activity)



# NAS report findings

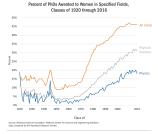
- Some of the most high profile cases have been in science, engineering, and medicine, higher education
- These areas create high levels of risk because
  - Higher education has long been male-dominated environment with men in most positions of power
  - Higher education has been historically perceived to tolerate sexually harassing behavior
  - Structure is hierarchical with very dependent relationships between faculty and trainees (students, postdocs, residents)
  - Work and training is often done in isolated environments

### How are we doing in Nuclear Science?



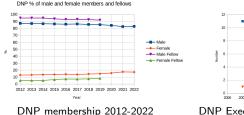
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# Women PhDs in physics, DNP members and fellows



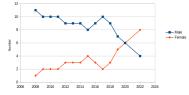
AIP Statistics

aip.org/statistics



DNP Executive Committee

Male and Female membership



DNP Executive Committee 2008-2022

# APS Conferences for Undergraduate Women in Physics



#### Conferences for Undergraduate Women in Physics (CUWiP)

APS Conferences for Undergraduate Women in Physics (CUWP) are three-day regional conferences for undergraduate physics majors.

COVID-19 and Related Health and Safety Guidelines to Atlend APS Sponsored Meetings.



The gaid A VPS CUMP is to help undergraduate women centrols in physics by providing them with the opportunity to experience a professional contenense, information about graduate school and professions in hypotics, and access to other women in physics of all ages with whom they can state experiences, adules, and ideas. The racional and local organizing committee OLAPS CUMP state to create a welcoming environment for all, including undergraduate women and epicers introficts.

Interested in learning more about CUWIP? Sign up for updates

A typical program will include research talks by faculty, panel discussions about graduate school and carriers in physics, presemations and discussions about women in physics, laboratory tours, statistic reasarch talks a statient poster session, and soveral meab curring which presences and statistics interact with each other.

#### CUWIP 2023

CUWP 2023 will be held Friday, January 20 -Sunday, January 22, 2023.

Applications are open as of August 29, 2022, and close October 10, 2022, at 5:00 p.m. ET.

Apply Now

2023 Millie Dresselhaus CUWiP Keynote Speaker

We are pleased to announce the 2023 Keynote Speaker, Dr. Nadya Mason. Check out her bio and more information below.

More Information

#### Stay Connected

If you're interested in networking with other women & gender minorities in physics, sign up for our new APS Engage community!

Sign Up

#### We Want to Hear from You

Your feedback helps make each CUWP event better. Please share your CUWP experience to let us know what you liked and how we can improve



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# APS News - Physics Viewpoint



A survey of undergraduate women in physics indicates that nearly three-quarters experienced harassment that left them feeling alienated and alone

April 22, 2018

A comprehensive survey of undergalatativ warves in physics has invested that attract there spacets in the memory-off the physical sorts from 4 do can be assured or other parts to yours and it variable in healing and loadato and alreadato. The reality, patiented in the AFS parts [<u>Physical Healers Physics Education Healing</u> and [<u>Physical Advances</u>]. The physical physical sorts and an experimentation of the physical sorts and <u>Undergalated Networks</u>. [<u>Physics</u>] (<u>CMMP</u>). The paper is accompanied by a <u>Memory Constantian</u> in Physics (<u>Undergalated Networks</u>).

"I variet to i quarefly the scope of scenal framosener in physics is wable production discussions that advancement of Samor Felson at the U.S. Department of Simony Felson at the U.S. Department of Simony, final author of the pages in DPECPL. This study increases the validity of the problem without relengt on women who have

The study also bound that pender harassenet, one type of sexual harassenere, its constantial with a dimensioned sense of beforegraps and the typester phenomenon () pennisters, unpended leading of being nameone who is undersoning of their accomptionements). These patients, according to earlier research, negatively influence students'.

In addition to Lauren Aycock, the study's authors are Zahra Hazari (Florida International University), Sirk Revee (Denot University), Xaitryy Clarky Directly of Illinois at Ultrans Champage), Theodere Hodge (Director of Project Development and Senior Addrese to Education and Diversity, APS), and Revee Michelle Contame (Senior Program Manage, Glocacion and Diversity, APS)

"This finding wan't surprise mart normen is STEMM (science, technology, engineering, mathematics, and motions), but I may shock their mate colleagues, who are after unaneer of sexual harassment's pervasiveness and damage, "weste Verepoint author Jules Libadio (Michigan State Linversity), "When sexual harassment gene uncheskee, physics losse gene people, gene minics, and genera general."



Recent News Update

Harvani, Chemica and APS Fellow Shares 2022 Kant Fister in Nanoscience Dr. Ocenipi Witcollers, a Harvard Chemica and APS Fellow, is one of box recipients of the 2022 Kant Fister in Nanoscience.

PS stress to provide a wetcoming and industrie rvicoment for all those engaged in physics.

APS Continues Progress to Make US More Welcoming for Science The China Inflative, which sowed fear among som APS inembers and custable legitimate costshorohom. For some in the custom form

March Meeting Heads in Chicago The 2022 APS March Meeting will be held five Chicago with many sessions available online a

Celebrativo Landess in Physics Teacher Economico Nine colleges and universities received top heners for preparing highly qualified high school physics

2022 APS Media for Exceptional Achievement In Research Avanded to Elitot Lieb

#### PHYSICAL REVIEW PHYSICS EDUCATION RESEARCH 15, 010121 (2019)

ggestion Featured in Physics

#### Sexual harassment reported by undergraduate female physicists

 Laurer M. Aycock.<sup>17</sup> Zahn Huzar,<sup>2</sup> Ireis Beres,<sup>23</sup> Sadhry B. H. Clang,<sup>43</sup>
Theodore Hodapp, <sup>14</sup> and Reess Mchelle Genetzell
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(Received 17 September 2018; published 22 April 2019)

Secual harasment occum more frequently in male-dominated fields and physics in a more madeominated field hum not obst-resizere, technology, engineering, and multimutis (STEM fields, Thus, it is important to examine the occurrence and impact of secual harasment on women in physics. A usercey of interphalane women, who startedia's a concentration of the startest of the startest startest of the startest startest of the startest startest of the startest startest interphysics. The startest of the startest of the startest of the startest of the startest startest interphysics of the startest startest and the startest of the startest of the startest of the startest of the startest startest of the startest startest of the startest startest of the startest startest of the startest startest of the startest of th

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DOI: 10.1103/PhysRevPhysEducRes.15.010121

"Understanding the extent and effect of sexual harassment for physics undergraduates is essential because this is the first stage of becoming a physicist ... studies such as this one are a wake-up call to all members of our community to advocate for change."



# Experience of Undergraduate Women in Physics

Physical Review PER 15, 010121 (2019)

- 500 responded to survey
- 74.3% experienced at least one form of sexual harassment
- these experiences correlated with a sense of not belonging to the field
- 47.9% experienced multiple forms
- Of those women who experienced some form of sexual harassment,
  - 91.3% experienced sexist gender harassment
  - 34.2% experienced sexual gender harassment
  - 32.6% experienced unwanted sexual attention

Aycock et al. found that experiencing sexual harassment correlated to a negative sense of belonging and an exacerbated sense of the imposter phenomenon

"When sexual harassment goes unchecked, physics loses great people, great minds, and great potential. It's worth noting that sexual harassment disproportionately affects people of color, people with disabilities, and members of the LGBTQ+ community"

# Conference Experience for Undergraduates (CEU) 2014

CEU2014 - Big Island of Hawaii



# Unwanted Sexual Attention – CEU anecdotes

Students in the CEU program have experienced the following at Fall  $\mathsf{DNP}$  meetings

- Male and female posters side-by-side. Women gets male visitors who hang for too long, joke around, flirt. She looks over at her male research partner. They both know what's going on ...
- Male physicist lingers at a woman's poster for too long, she asks if he has any other questions, he says "I could sit here and listen to you all day"
- After DNP banquet, female CEU student grabbed inappropriately, invited out for a drink, he keeps insisting.
- "What drew you to physics? You're so beautiful, you could probably choose any school you wanted"
- "That's a beautiful dress" ... "Thank you" ... "And you fill it out so well"
- "Everywhere I go this older physicist keeps looking at me. It makes me very uncomfortable. Now I have to try and avoid him."

These students are our future. Some of our own colleagues are acting this way. This should be very concerning to our community.

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# Impressions from a DNP Meeting



- Male physicist looks at badge, says "I know your work ... but wow I thought you were a man"
- Advisor visited male graduate student talks, skipped out on female's talk
- Creepy guy in front row stares at female speakers ankles the whole talk
- Treated aggressively, skeptically in Q and A unlike for male speakers
- Several male attendees are verbal about denying any problems, dismiss womens' concerns as unwarranted
- After banquet go see live band, she's reluctant to dance but male insists she must since she's the "only girl"

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Research shows the greatest predictor for the occurrence for sexual harassment is the organizational climate.

- Climate is evaluated on three levels
  - the perceived risk to those who report sexually harassing behavior
  - a lack of sanctions against offenders
  - the perception that one's report of sexually harassing behavior will not be taken seriously
- Conditions that exacerbate the problem
  - Insufficient attention to the problem by leadership
  - Lack of clear policies and procedures to hold perpetrators accountable and that investigations will be taken seriously
  - Minimal or merely symbolic compliance "performative activism"
  - Insufficient protection for targets of sexual harassment
  - Lack of effective training on sexual harassment)



http://nap.edu/24994

# NAS report findings ... a way forward

## Changing the culture ...

- Support targets of harassment, give them options for addressing the offense
- Demonstrate that sexually harassing behavior is unacceptable
- Hold perpetrators accountable
- Add bystander training
- Change funding and mentoring structures
- Give targets of harassment options to speak with non-mandatory reporters (Allies...) and greater control on when and how they want to proceed
- Arm administrators with tools to combat and handle harassment
- Demonstrate that people who harass are held responsible



http://nap.edu/24994

# **DNP DEI Committee and Allies Program**

### DNP DEI committee members

#### 2022

Co-Chair: Filomena Nunes, Michigan State University Co-Chair: Roxanne Springer, Duke University Members:

- · Paul Gueye, Michigan State University
- · Elena Long, University of New Hampshire
- Christine Nattrass, University of Tennessee -Knoxville
- Warren Rogers, Indiana Wesleyan University
- Loida Rosado del Rio, University of Puerto Rico
- Sherry Yennello, Texas A&M University
- · Allison Zec, University of Virginia

- DNP Allies
- · David Armstrong, William and Mary, dsarms@wm.edu
- · Gail Dodge, Old Dominion University
- Evie Downie, George Washington University, edownie@gwu.edu
- Charlotte Elster, Ohio University
- Dick Furnstahl, The Ohio State University, furnstahl.1@osu.edu
- Ron Gilman, Rutgers University, rgilman@physics.rutgers.edu
- Robert Janssens, UNC-Chapel Hill
- Krishna Kumar, Stony Brook University
- Simonetta Liuti, University of Virginia, <u>sl4y@virginia.edu</u>
- Filomena Nunes, Michigan State University, nunes@nscl.msu.edu
- Warren Rogers, Indiana Wesleyan University, <u>warren.rogers@indwes.edu</u>
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- Brad Sherrill, Michigan State University
- Roxanne Springer (Chair), Duke University, rps@phy.duke.edu
- Artemis Spyrou, Michigan State University, <u>spyrou@nscl.msu.edu</u>
- Sharon Stephenson, DOE, sharon.stephenson@science.doe.gov
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- Ramona Vogt, Lawrence Livermore National Laboratory, rvogt2@llnl.gov

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<u>Sherry Yennello</u>, Texas A&M University, <u>yennello@comp.tamu.edu</u>

The Allies program aims to help reduce harassment at DNP meetings and provides an avenue for those affected to have the issues addressed in a timely manner, thereby reducing the impact harassment may have on the field of nuclear physics.

# Moving Forward ... Recommended Reading ...

- White paper: "How Community Agreements Can Improve Workplace Climate in Physics" (Barzi, Liuti, Nattrass, Springer, Bennett, https://doi.org/10.48550/arXiv.2209.06755)
- Sexual Harassment Reported by Undergraduate Female Physicists (Phys Ref C PER 15, 010121 (2019))
- White paper: DPF Core Principles and Community Guidelines (https://docs.google.com/document/d/10D8khECoDKni\_yMsSdkzgdYvUUXI402pQCb0
- White paper: DPF Code of Conduct Accountability (http://seattlesnowmass2021.net/assets/docs/DPF-CPCG-05.03.2022.pdf)
- "In Search of Excellence and Equity in Physics," Barzi, Gates Jr., Springer (APS CSWP & COM Gazette vol. 41 No. 1, https://doi.org/10.48550/arXiv.2203.10393)
- Open Letter: Dear Senior Astrophysicists, Physicists, and Planetary Scientists (https://sites.google.com/site/openlettertoseniorscience/)
- White paper from Astrophysics/JINA community (https://arxiv.org/pdf/2205.07996.pdf)

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# CSWP Gazette, Spring 2022

- Underrepresented people draw new relations between ideas and concepts that lead to increased innovation
- Significant psychological physical impact bullying and personal attacks have on individuals
- Funding agencies, as stewards of taxpayer's money, should require ethical practices and monitor behavior for the most cost-effective use of their money
- 11-point plan to finding and hiring leaders who will support DEI

AND Gazette MARKE			
Newsletter of the Com	mittee on the Status of Women in Physics & the Comm	itice on Minerities of the Ar	merican Physical Society
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What Fre door Learning J	tion peoples than could be expected from a functioning metricensey [2]. The expectation that our physics com- munity is a metricense yi that challinged 1. The water to change this, we need to change our behavior, i.e., practices. Practices of a community ought to be based on its stand-underlying values. To begin, we should	Chair in Occupational Health Daydonlagy at St. Mary's University, who says "Injustice is a par- locality' toxic stressor	(And a state of the state of th
Mohing die Glass Colling in Physics 4	ripoweky query somequins that our expensions and the decisions made within them one equitable and sock good relations of hat support this assumption. As a classific, we need to loars form a classific query popul- iou in the study of hanna behavior. Togetable previous and procedures, an appoand to historeable of assume do not constantly in homes societies. Developing and maintaining this procedures, and classification between your documents waterspectrum.	because it strikes at the error of who we not, When you treat me un- fairly, you attack my digitizy as a parson — oscientially apping that 1 don't deserve fair treat- ment or to be treated the same no others" [2]. In-	Roune Springer
	scated people require focused effort, frequent me- surement, and continuous correction. The risk along the way is that the sensept of "Equity, Diversity, and	crossed stress can impact by ing the immune system. So described in a study by it	tox effects on the body are

"Discounting deserving, productive scientists from the scientific enterprise, be it for inequity, exclusion of minorities or even illegal discriminatory behavior, undermines the integrity of science and affects it at its core now and in the future"

# APS Back page Article – August/September Newsletter

8 · August/September 2018

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**APS**NEWS

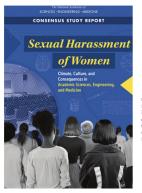
# **The Back Page**

# **APS in the #MeToo Era**

By Warren Rogers, Roxanne Springer, and Sherry Yennello

With the release of the U.S. National Academies (NA) report "Sexual Harassment of Women - Climate. Culture, and Consequences in Academic Sciences, Engineering, and Medicine" [1] and the increasing visibility of the #MeToo movement [2], this is a good time to consider the experience of women in our APS community. There is growing awareness of the damage that is done to individual careers as well as to our physics community when women are not treated with equity and respect. Here we want to discuss steps that have been taken as well as the work our community still needs to do. Gender norms, for better or worse, are part of human culture; managing the negative impact they can have is something that will take perpetual and continuing effort. We ask that APS members embrace this concept and make a commitment to help create an APS culture where personal integrity and physics excellence are celebrated, where those who unintentionally harass are mentored, and those who continue to harass are marginalized.

The NA report emphasizes that typically when the phrase "sevanal harassment" is used, we think of explicit and unambiguous assault or coercion. But included in the range of behaviose the NA identifies as sexual harassment is "gender harassment"—actions and comments that demen or belitue women and/or call attention to them as sexual objects. The NA report states that the trauma of frequent gender harassment on women, as reflected in their physical and mental health and their likelihood of leaving the field, equals that of physical assault. This is the landscape we in APS, and as



- 2. Offering bystander training at APS meetings.
- Considering "harassment-related professional misconduct" [1] when choosing award and fellowship recipients [11].
- 4. Partnering with Callisto [10] to aid in collecting data.
- Requiring a pledge to abide by the APS CoC not only at every APS conference registration, but for membership renewal.
- Including sexual harassment as a form of research misconduct [11] in the APS Guidelines for Professional Conduct [12].
- Administering regular surveys to APS members to measure our progress.

The NA report states, "Research also shows that, by far, the greatest predictor of the occurrence of sexual harassment is the organizational climate ..." The influential role APS leaders play in sharing this climate cannot be overstated, but every APS member also has a responsibility. Few of us have the experience to respond appropriately in the moment, and some of us don't recognize harassment even as it is happenju. If your home institution offers training, plasae sign up

"The influential role APS leaders play in shaping this climate cannot be overstated, but every APS member also has a responsibility."

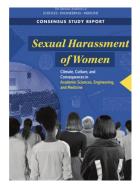
# **APS Back Page Article**

# Back Page article recommendations

- Developing the Allies Program to all APS meetings
- Offering bystander training at APS meetings
- Onsidering "harassment-related professional misconduct" when choosing award and fellowship recipients
- Requiring a pledge to abide by the APS Code of Conduct for APS conference registrations, and for membership renewal
- Including sexual harassment as a form of research misconduct in the APS Guidelines for Professional Conduct
- Administering regular surveys to APS members to measure our progress

APS Code of Conduct:

https://www.aps.org/meetings/policies/code-conduct.cfm



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# **Community Agreements**



The past few years have seen the establishment of Codes of Conduct for laboratories, agencies, APS, collaborations, etc. – a positive move to be sure

Community Agreements include expectations for community members behavior, as well as enforcement mechanisms that involve fact-finding, and consequences for misconduct that is unbiased, transparent, and just.

### https://doi.org/10.48550/arXiv.2209.06755

They articulate:

- The need for Community Agreements (CA)
- Scaffolding elements for community agreements
- Core principles and community guidelines (based on work of DPF Ethics Task Force)
- Accountability and enforceability, the need to balance transparency and confidentiality
- Bystander intervention should be expected of all leaders in the community

Recommendations:

- All physics entities should have a Community Agreement (CA) in place, and abiding by the CA should be an explicit condition of membership in that entity.
- Investigation procedures should balance transparency and privacy, while allowing cases to be adjudicated and appropriate sanctions (ranging from no action to expulsion from the organization) to be applied expeditiously.
- Bystander intervention training should be expected of all leaders in the community

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# Selected Recommendations for Nuclear Science Community

- Require all physics entities to adopt a Community Agreement
- Establish Allies program at Spring meeting, and eventually at all APS meetings
- Provide bystander training at all APS conferences
- Require conferences funded by DOE and NSF to have Code of Conduct and a procedure for enforcing it
- Require that DEI plans be integrated into grant proposals for both agencies
- Periodically assess the climate through surveys
- Work in concert with Hot and Cold QCD and Fundamental Symmetries Town Halls as we establish the DEIB White Paper

**Tim Hallman**, Associate Director of Science for Nuclear Physics, Office of Science, DOE

- This is not who we are
- Given our collective aspiration it is hard to see how those who may continue to speak and behave inappropriately have a future in nuclear science
- The message is simple: treat all people with the same dignity and respect you expect to be treated with yourself



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"The only thing it takes for bad-behavior defeating DEI goals to continue is for people of good conscience and integrity to do nothing"

# Our Individual Roles ...

- Sexual harassment hurts women and members of under-represented groups and drives them out of physics (this should be a source of embarrassment for the field and loss of valuable talent)
- Sexual harassment occurs at all levels of seniority and hurts our field as a whole
- Each of us has a responsibility to our community
  - Become better educated as to what is happening in our community
  - Honestly assess our individual behavior and its impact on others
  - Examine our outdated assumptions from the past, cultural norms that must change
  - Receive bystander training a very effective individual tool
  - Take a few Harvard Implicit Bias tests
  - Think in advance about how you will approach intervention on behalf of a victim when it becomes necessary
  - Be a listener and encourager to victims, take them seriously
  - Contribute to the ongoing dialogue, be an agent of change for the better
  - Don't let a personal attacks go unchallenged

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### Many thanks to ...

### **Funding Agencies**

- National Science Foundation
- Department of Energy

### Town Hall Co-Conveners

- Alexandra Gade, FRIB/MSU
- Grigory Rogachev, Texas A&M
- Rebecca Surman, University of Notre Dame
- Sofia Quaglioni, LLNL

#### DNP DEI committee co-chairs

- Filomena Nunes, FRIB/MSU
- Roxanne Springer Duke U

#### DEI working group co-conveners

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- Paul Gueye, FRIB/MSU
- Stephanie Lyons, PNNL
- Warren Rogers, Indiana Wesleyan University
- Alejandro Sozogni, BNL
- Vandana Tripathi, FSU

# $\mathsf{APS} \ \mathsf{Code} \ \mathsf{of} \ \mathsf{Conduct} - {}_{\mathsf{https://www.aps.org/meetings/policies/code-conduct.cfm}$

It is the policy of the American Physical Society (APS) that all participants, including attendees, vendors, APS staff, volunteers, and all other stakeholders at APS meetings will conduct themselves in a professional manner that is welcoming to all participants and free from any form of discrimination, harassment, or retaliation. Participants will treat each other with respect and consideration to create a collegial, inclusive, and professional environment at APS Meetings. Creating a supportive environment to enable scientific discourse at APS meetings is the responsibility of all participants.

Participants will avoid any inappropriate actions or statements based on individual characteristics such as age, race, ethnicity, sexual orientation, gender identity, gender expression, marital status, nationality, political affiliation, ability status, educational background, or any other characteristic protected by law. Disruptive or harassing behavior of any kind will not be tolerated. Harassment includes but is not limited to inappropriate or intimidating behavior and language, unwelcome jokes or comments, unwanted touching or attention, offensive images, photography without permission, and stalking.

Violations of this code of conduct policy should be reported to meeting organizers, APS staff, or the APS Director of Meetings. Sanctions may range from verbal warning, to ejection from the meeting without refund, to notifying appropriate authorities. Retaliation for complaints of inappropriate conduct will not be tolerated. If a participant observes inappropriate comments or actions and personal intervention seems appropriate and safe, they should be considerate of all parties before intervening.