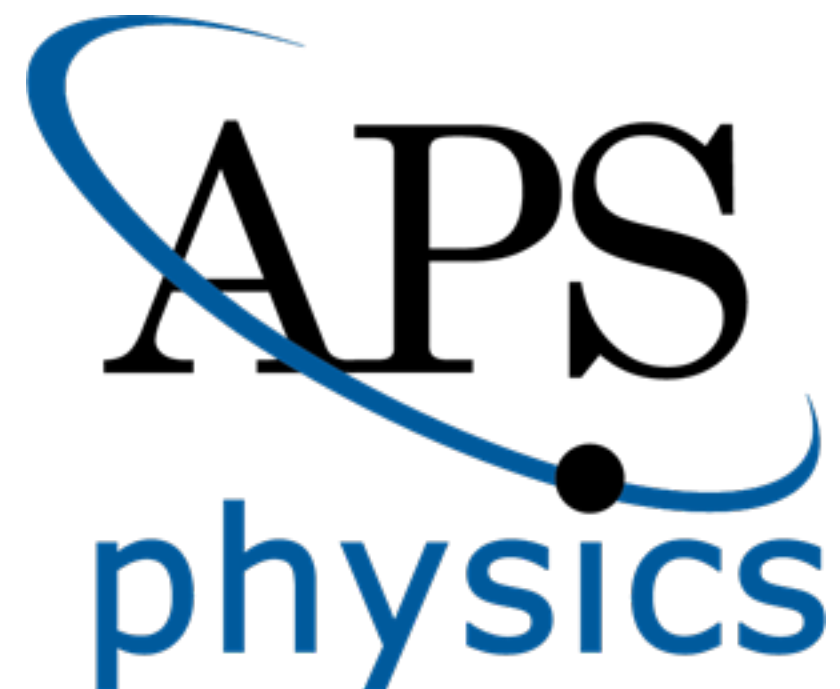


# What APS can help you with

Michael Wittmann and Kathryne Woodle  
*American Physical Society*



# Big Picture

- Careers
- Education
- Diversity
- Innovation
- Public Engagement



# Careers



## Career Mentoring Fellows Program

The Career Mentoring (CM) Fellows program seeks physicists working in industry, government/national labs, or academia, who are interested in mentoring undergraduate students, learning and teaching about diverse career paths of physics degree holders, and establishing a stronger connection with the physics community. Once you become a Career Mentoring Fellow, you can continue participate as long as you are still interested. We will keep your information and may contact you for future mentoring opportunities beyond 2022-2023. You may also reach out to us at [careers@aps.org](mailto:careers@aps.org).

**Applications for 2023 Career Mentoring Fellows are now open. Apply by Friday, August 15, 2022.**

## Careers In Physics

### Search Physics Jobs

[Search Jobs](#)[Advanced Search](#) | [Post Your Resume](#) | [Job Alerts](#)[For Employers: Post a Job](#)

### Resources for Job Seekers



A step-by-step guide to physics careers that align with your interests, talents, and values — and how to build a successful road toward them.

[Professional Guidebook](#)

### Explore Physics Careers



See the breadth of opportunities for physics graduates in industry, national labs, and beyond — and get the guidance you need to land those jobs.

[Careers 2022 Guide](#)

### Webinars for Physicists

Webinars offering discussion, career guidance, and advice.  
[View Webinars](#)



### Career Paths

Explore the career options available to you and learn how to get there. [Learn more](#)





# Education

Get the  
Facts Out



**Physics Teaching**



**PhysTEC** Physics Teacher  
Education Coalition

**Leadership**

workshop for  
**new physics and  
astronomy faculty**

**NPRLG**  
NSF Physics REU  
Leadership Group

2021

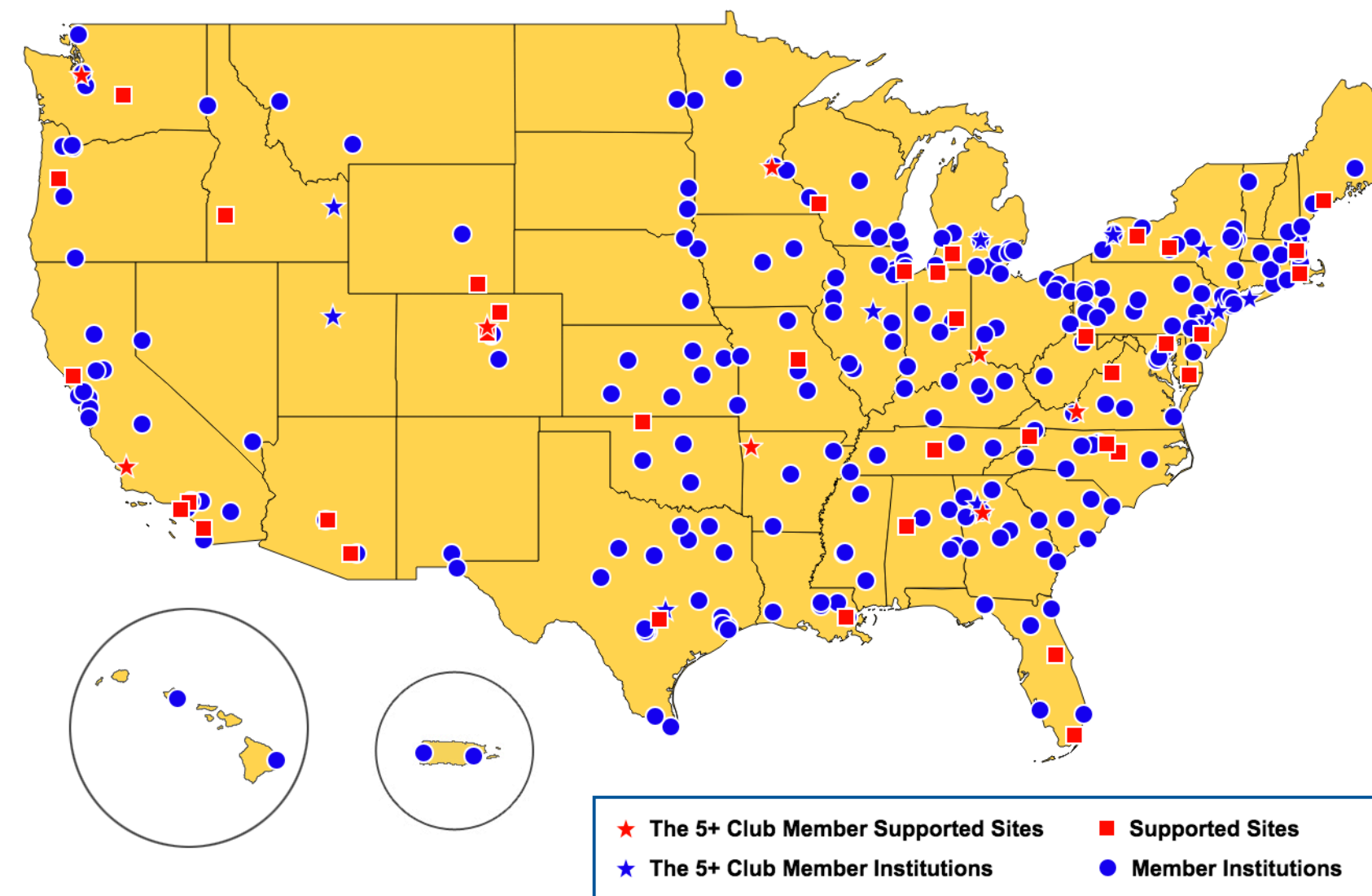
PHYSICS DEPARTMENT  
CHAIRS CONFERENCE

June 3-4, 2021 ♦ Virtual

# PhysTEC

Physics Teacher Education Coalition:

- More qualified physics teachers
- A national coalition of universities engaged in this work



# Pod topics from this morning

- Threats to department
- Department politics
- DEI issues
- Undergraduate research
- Mentoring
- Recruiting
- Curricular reform
- Teaching innovation
- Online teaching
- Outreach



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Recruiting of Undergraduate Physics Majors

Retention of Undergraduate Physics Majors

Advising and Mentoring of Students

Career Preparation

Undergraduate Research

Internships

Capstone Experiences

Introductory Courses for STEM Majors

Upper-Level Physics Curriculum

Courses for Non-STEM Majors

Instructional Laboratories and Experimental Skills

Computational Skills



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High School Physics  
Teacher Preparation

Degree Tracks

Dual-Degree Programs

How to Be an Effective  
Chair

How to Create and Use a  
Strategic Plan

How to Create and Use  
Foundational Documents

Departmental Culture  
and Climate

Equity, Diversity, and  
Inclusion

Ethics

How to Undertake an  
Undergraduate Program  
Review

How to Serve as an  
Undergraduate Program  
Reviewer

Physical Environment:  
Encouraging  
Collaboration and  
Learning



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## Map your program's goals

We've organized the EP3 Guide around content relevant to challenges commonly faced by physics departments. Make a selection to start learning how you can improve your program.



Increase the  
Number of Majors



Improve Student  
Satisfaction or  
Engagement



Better Meet the  
Needs of Diverse  
Students



Improve  
Curriculum and  
Instruction

# Helping Students



To help undergraduate women continue in physics by providing them with the opportunity to experience a professional conference, information about graduate school and professions in physics, and access to other women in physics of all ages with whom they can share experiences, advice, and ideas



To facilitate and support mentoring relationships between Black/African, Latinx, and Indigenous undergraduate physics students and physics mentors. Membership in the NMC is free for both Mentors and Mentees



To measurably increase the number of physics PhDs granted to underrepresented minorities over the next ten years by establishing a set of bridge programs that facilitate student transitions from undergraduate degree programs to graduate school.

# Culture and Climate

- APS IDEA - Inclusion, Diversity, and Equity Alliance
- CSWP/COM Department site visits
- DALIs (Department Action Leadership Institutes)



# Supporting APS Community

- COE: Committee on Education
- FEd: Forum on Education
- GPER: Topical Group on Physics Education Research
- EPC: Education Policy Committee
- Education and Diversity Statistics

