

Call for Presentations

Below is a list of topics specific to WM26 that members have proposed to see at the conference. If you think your presentation fits into one of these categories, please indicate that in your submission. Otherwise, please use one of the more general Presentation topics below.

21st Century Physics and Astronomy in the Classroom

Share your successes incorporating current research into the undergraduate curriculum! Help others inspire their students with your experience! Either with single lectures on current topics in traditional classes or with the development of special topics classes, tell us what you did, what students learned, and how it went.

Action Research in the K-12 Physics Classroom

In this practitioner-focused session, speakers will share how they incorporate action research into their K-12 physics classrooms.

Alternative Assessment in the Physics Classroom

In this session, participants will share ways they use alternative assessments to gain an understanding of what their students know and can do in the physics classroom.

Beating the odds: teaching probability and statistics within physics

Multiple undergraduate physics courses require students to apply knowledge of statistics and probability, but many undergraduate programs do not require physics majors to take courses dedicated solely to these topics! This session will focus on how instructors fold these topics into their courses to support student success, with a range of examples and applications.

Bridging the Gap: Teaching College Courses on High School Campuses

Teaching college-level courses in high school settings comes with unique challenges. This session explores key differences in classroom management between high school and TYC environments, offers tips for TYC faculty assigned to HS campuses, and shares valuable resources to help HS teachers succeed with college-level content. Join us for practical strategies and shared experiences to help bridge the gap.

Electronic Lab Guides and Notebooks

What have you learned about and what advice do you have on use of electronic lab guides or electronic notebooks? Share the good, bad and neutral about your and your students' experience with them whether you've just started using them or have many years experience to reflect on.

Frontiers in Space Science and Astronomy

Contribute perspectives on upcoming and current space missions and new results in astrophysics research.

Implementing OpenSci Ed in the Physics Classroom

In this session, participants will learn how teachers are implementing OSE in the physics classroom, and learn the advantages and challenges of this implementation.

Innovations in Teaching Astronomy

New approaches in teaching astronomy and research results in astronomy education.

Metacurricular programming for physics majors

This session will focus on impactful programming that departments have developed to support long term planning and foster undergraduate student success through career and professional development outside of the traditional physics courses. Examples may include colloquia, seminars, workshops, and more!

No tech? No problem! No-to-low-tech physics labs

In this session, participants will share ways they incorporate no or low-tech labs in the physics classroom.

Quantum Education Promotion: Initiatives and Challenges in the Undergraduate Program

Discussion Series on the latest development on Quantum Information Science (QIS) programs at the undergraduate levels including any novel contributions and invited speakers in the field.

Using AI in the Physics Classroom: Tools, Strategies and Possibilities

Discover how artificial intelligence can support teaching and learning in physics. This session will explore ways AI tools can enhance student engagement, support problem-solving, personalize learning, and assist with lab analysis and feedback. We'll share classroom-tested examples, discuss ethical considerations, and provide practical tips for integrating AI into your instruction—whether you're just getting started or looking to take the next step.

Using Mathematical Reasoning in Physics Teaching

In this session, presenters will share their innovative methods that have proven effective in helping students understand physics concepts when the application of mathematical knowledge to structure and understand physical phenomena. is engaged. A key distinction of these methods is their focus on using algebraic functions derived from physics formulas, rather than working directly with the formulas themselves.

General Call for Contributed Talks & Posters:

Below is a list of general topics we commonly see at the meeting. If you are not sure that your presentation would fit into any topic in the more specific call above, consider submitting it under one of these more general topics.

- **Astro**
- **K-12**
- **Teacher Preparation**
- **Informal Physics**
- **Intro Courses**
- **Intro Physics for the Life Sciences (IPLS)**
- **Labs/Apparatus**
- **Two Year Colleges**
- **Educational Technology**
- **Beyond Intro Physics**
- **Belonging and Access**
- **Physics Education Research (PER)**
- **Other**