Call for Presentations

Below is a list of topics specific to WM27 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
In this session, we would like to share lessons and ideas for engaging students with new scientific discoveries. Do you use data from CERN, LIGO, or other sources where discoveries are being made? Please share how you are using this information with students. Are you discussing topics like quantum mechanics, particle physics, gravitational waves, or quantum computing with your students? If so, please share what you are doing and how it is working.

Effective Practices in Educational Technologies
This contributed-paper session highlights a broad range of effective practices in educational technologies used to support physics teaching and learning. Presentations may address instructional tools, digital resources, learning platforms, or pedagogical strategies that leverage technology to enhance engagement, accessibility, assessment, or conceptual understanding across introductory and advanced courses. Emphasis will be placed on practical classroom applications, reflections on implementation, and evidence of impact on student learning. The session provides a forum for sharing experiences, challenges, and insights related to the thoughtful use of educational technologies in lecture, lab, or hybrid environments.

Gulf Coast States Physics Research
This session would like contributed papers on a physics research topic from individuals who teach at an institution in one of the Gulf Coast states.

Gulf Coast States Physics Teaching and Education
This session would like contributed papers on teaching physics and/or physics education from individuals who teach at an institution in one of the Gulf Coast states...

Innovations in Teaching Astronomy
New approaches in teaching astronomy and research results in astronomy education.

Physics and Art
The session will emphasize the intersection of physics and the arts. We are seeking talks about how you blend physics into the arts, particularly for non-science majors whose interest in not in STEM fields.

Quantum Information for the Classroom
Quantum mechanics, quantum computing, quantum information systems, and other topics are hot topics. What do students need to know about these topics? How are you introducing these topics within introductory physics courses? How do we engage students early with these concepts to get them excited about this field of physics? Please share your experience with us.

School to School STEM Collaborations to Boost Enthusiasm
Contribute information about successful and attempted collaborations between schools, including in different countries, around STEM experiments and/or resulting data aggregation and writeups. We hope to uncover many untold stories about how to grow STEM enthusiasm and uptake.

Teaching and Learning Physics Problem Solving
This session invites presentations on research, instructional strategies, classroom innovations, and curriculum development aimed at helping students become more effective and confident physics problem solvers. We welcome presentations on physics education research, classroom implementations, curricular materials, and other approaches that support students' success in problem solving. We encourage submissions from educators working in introductory and advanced undergraduate courses, teacher preparation programs, and informal learning environments.

Using and Contributing to the Living Physics Portal
This session focuses on highlighting the curricula and resources of the Living Physics Portal, an online archive of innovative pedagogical resources and curricula. Speakers have frequently focused on newly developed materials for the IPLS (Intro Physics for the Life Science) course, challenges and opportunities of contributing to the LPP, and of working within the community of IPLS curricula developers.

Using Historical Experiments to Teach and Engage Students
This session welcomes contributed talks about ways that you use historical physics experiments to prompt interest or participation in students. Show how you use historical experiments to make important physics concepts come to life..

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**
- **AI and Other Technologies**
- **Beyond Intro Physics**
- **Belonging and Access**
- **Physics Education Research (PER)**
- **Other**