

Session Topics for Provo
(Session topics are subject change)

Committee on Apparatus

- Building Lobby Science Exhibits
- Hot & Cold Physics Demos
- Methods vs. Topics: scaffolding & the 3-Legged stool
- Physics Labs for Life Science Students
- PIRA "Howzit Glowin"

Committee on Diversity in Physics

- Physicists with Disabilities
- Supporting Accessibility in Physics Education
- Teaching and Engaging Students at HSIs

Committee on Educational Technologies

- Best Practices for Maker Spaces
- Breaking Physics from Ground-breaking Experiments
- Building professional networks
- Effective Practices in Educational Technology
- Highlights of the PICUP Collection
- Interactive Lecture Demonstrations: A Research-Validated Active Learning Strategy for Lectures, Including Clickers and Video Analysis
- Machine Learning in Physics and the Physics curriculum
- Physics Labs for Life Science Students
- Quantitative Methods in PER: A Critical Examination
- Sharing, Improving, and Researching Pedagogies and PER resources, using Data Analytics
- The History Of The Last Few Decades Of Computation In Physics Education

Committee on Graduate Education in Physics

- Professional Skills for Graduate Students
- The Graduate Physics Education Experience
- Topical Discussion & Social for Students

Committee on History and Philosophy in Physics

- Amazingly Creative Research Strategies from Indigenous People
- Ethics in the Practice and Application of Science

Committee on International Physics Education

- Amazingly Creative Research Strategies from Indigenous People
- Cutting-edge Physics in Developing Countries
- International Perspectives for Laboratories
- Lessons learned: Let's listen to women and international persons' experiences
- Physics for Refugees & Street Children

Committee on Laboratories

- International Perspectives for Laboratories
- Labs beyond the First Year (BFYIII): One Year Later
- Nuclear Physics beyond the first year of university
- Sharing Approaches to Meaningful Writing in intro Labs

Committee on Modern Physics

- Cutting-edge Physics in Developing Countries
- Star Wars Physics

Committee on Physics in High Schools

- 30 Demos in 60 Minutes
- Best Practice in Teacher Professional Development
- Early Career Teachers: Voices from the Field
- Introductory Physics for the Life Sciences (IPLS)
- K-12 PER
- Physics for Inclusivity & Empowerment
- PhysTEC in 50 States
- PTRA: Make, Play, Do to Learn
- PTRA: Paper Drag Racers in Your Classroom
- PTRA: Physics of Sound
- PTRA: Quantum Computing in YOUR Classroom
- PTRA: Understanding NGSS Phenomena
- Share-a-thon: Good Things, Little Things, Big Impact on Teaching
- Star Wars Physics
- Universal Design for Learning

Committee on Physics in Pre-High School Education

- PTRA: Make, Play, Do to Learn
- PTRA: How Were Gravitational Waves Detected Pt I
- PTRA: Modeling Gravitational Waves in the Classroom Pt II
- PTRA: Paper Drag Racers in Your Classroom
- PTRA: Physics of Sound
- PTRA: Understanding NGSS Phenomena

Committee on Physics in Two-Year Colleges

- Local Area Physics Groups - How Do You Make Them Work?
- Physics of Digital Games
- Pre-Req's: Who, What, Where, When and Why
- Share-a-thon: Good Things, Little Things, Big Impact on Teaching
- TPT Favorites
- STEP UP 4 Women

Committee on Physics in Undergraduate Education

- Assessment Strategies, Especially For Upper-Division Physics
- Breaking Physics from Ground-breaking Experiments
- Contributing to, and using, the Living Physics Portal
- Current Materials for Program Self-Study & External Review, And Effective Practices for Physics Programs
- Highlights of the PICUP collection
- Introductory Physics for the Life Sciences (IPLS)
- Improving student understanding of Quantum Mechanics
- Labs Beyond the First Year (BFYIII): One Year Later
- Methods vs. Topics: scaffolding & the 3-Legged Stool
- Machine Learning in Physics and the Physics Curriculum
- NSF-Sponsored Physics and Astronomy Projects Crossing Disciplinary Boundaries
- Nuclear Physics beyond the First Year of University
- PICUP: Reports on the Growing Computational Physics Education Revolution
- Physics for Inclusivity & Empowerment
- The Art and Science of Teaching
- The Graduate Physics Education Experience

Committee on Professional Concerns

- Academic Integrity/Honesty in the Digital Age
- Physicists with Disabilities
- Solo PER
- Supporting Accessibility in Physics Education

Committee on Research in Physics Education

- Assessment strategies, especially for upper-division Physics
- Early Career Topical Discussion
- Getting the Facts Out About STEM Teaching Professions
- Informal Physics Education Research: An International Community Informal Physics Education Research - IPER community
- Interactive Lecture Demonstrations: A Research-Validated Active Learning Strategy for Lectures” Including Clickers and Video Analysis
- K-12 PER
- NSF-Sponsored Physics and Astronomy Projects Crossing Disciplinary Boundaries
- PICUP: Reports on the Growing Computational Physics Education Revolution
- Professional Skills for Graduate Students
- Quantitative Methods in PER: A Critical Examination
- Science and Society: Towards Teaching A Structural Understanding of Science
- SCALE-UP: Discussing implementation and sustainability challenges for Education Reforms
- Solo PER
- Topical Discussion & Social for Students

Committee on Science Education for the Public

- Best Practices for Maker Spaces
- Building Lobby Science Exhibits
- Evidence-based Approaches to Community Partnerships
- Informal Physics Education Research: An International Community Informal Physics Education Research - IPER community
- Outreach for Underserved Populations
- Science and Society: Climate Change

Committee on Space Science and Astronomy

- Frontiers of Astronomy
- Innovations in Teaching Astronomy
- LDS: (Large Data Sets In the Classroom
- Outreach for Underserved Populations
- Sharing Approaches to Meaningful Writing in intro Labs
- The Discovery of Gravitational Waves: Four Years Later

Committee on Teacher Preparation

- 30 Demos in 60 Minutes
- Best Practice in Teacher Professional Development
- Career Changing and Second Career Physics Teachers
- Early Career Teachers: Voices from the Field
- Getting the facts out about STEM Teaching Professions
- Hot & Cold Physics Demos
- Physics for Refugees & Street Children
- PhysTEC in 50 States
- PTRA: Quantum Computing in YOUR Classroom
- The Art and Science of Teaching
- Universal Design for Learning

Committee on the Interests of Senior Physicists

- TPT Favorites

Committee on Women in Physics

- Building Professional Networks
- Lessons Learned: Let's Listen To Women and International Persons' Experiences
- Science and Society: Towards Teaching A Structural Understanding of Science
- STEP UP 4 Women