

Session Topics

Committee on Apparatus

Exciting Demos & Equip in E&M PIRA Session - 3D Printing in Labs and Demonstrations

Committee on Diversity in Physics

Coping Mechanisms for Physics Students from Underrepresented Groups Supporting Equity through Group Work and Collaboration

Committee on Educational Technologies

Best Practices in Educational Technology

Cultural Perspectives on Educational Technology

Developing and Using Next-Generation Simulations

Educational Applications of Drones, Augmented/Virtual Reality, and Other Emerging Technologies

Effective Practices for Integrating Computation in Undergraduate Physics

Effective Practices in Educational Technology

Use of Online Presence to Enhance Instruction

Committee on Graduate Education in Physics

Multiple Career Paths in PER

Committee on History and Philosophy in Physics

History and Philosophy in Physics Courses Science and Religion

Committee on the Interests of Senior Physicists

conFUSION about Units: Mass/Weight, Weightlessness and Others Defining Units: Old and New

Committee on International Physics Education

Citizen Science and International Collaboration Creating Inclusive Diverse Classrooms

Committee on Laboratories

Designing Labs with Low-Cost Embedded Computers: Raspberry PI, BeagleBone, and Galileo Lab Recommendations Focus Area 5: Technical and Practical Skills Optics Labs at All Levels: Rainbows to Raman Spectroscopy

Committee on Modern Physics

Neutrino Physics Investigations for Students and Teachers

Committee on Physics in High Schools

Designing Curriculum for Social Justice in the HS Physics Classroom K-12 PER Modeling Instruction at All Levels NGSS Evidence Statements Teaching AP Physics with Big Ideas, Writing, & Calculations Writing in HS Physics Classes

Committee on Physics in Pre-High School Education

Constructing Learning Cycles Using the Evidence Statements of the NGSS Electricity, Energy, and Particles: Squishy Circuits, Scribble Bots, and the Particle Zoo Make, Play, Learn

Opportunities for K-12 Teacher Leadership and Engagement

Committee on Physics in Two-Year Colleges

Adjunct Faculty Current Space/Astronomy/Physics News Used in the Classroom Going Public: How to Get Published Highlights of TYC New Faculty Experience Impact and Reflections on the 20+ years of TYC Physics Workshop Projects

Committee on Physics in Undergraduate Education

Jupyter: VPython/GlowScript Learning Outcomes and Assessment in the IPLS Course New Developments in Introductory Physics for Life Science Dissemination PER Innovations for Reducing DFW Rates and Improving Retention in Introductory Physics Sequences PER-Based Innovations in Upper Division Physics Classes Phys21 Results of a Comprehensive National Survey of the Uses of Computation in Undergraduate Physics Programs The Art and Science of Teaching

Committee on Professional Concerns

Panel on First Year Teacher Concerns Panel on Public Affairs - Physics Teacher Recruitment Physicists with Disabilities Survival Skills for New High School Teachers

Committee on Research in Physics Education

Engineering Education Graduate Student Topical Discussion Interactive Lecture Demonstrations: What's New? ILDs Using Clickers and Video Analysis Professional Skills for Graduate Students Race and Gender Performance Gaps: Problems and Alternatives Research on the Impacts of the Learning Assistant Model Solo PER The Physics of the NSF IUSE Program The Use of IOLab for Introductory Laboratory Reform

Committee on Science Education for the Public

Climate Change

Committee on Space Science and Astronomy

Avenues for Publishing in Astronomy Education Frontiers in Astronomy Improving Student Learning With the Use of Popular Media Multi-Messenger Astronomy in the Age of GR and Gravitational Waves Preparing the Community for the August 21st Solar Eclipse

Committee on Teacher Preparation

30 Demos in 60 Minutes Innovative Models of Physics Teacher Preparation

Committee on Women in Physics

Developing Successful Mentoring Relationships

Making Change through Science Policy