

## 2019 AAPT Winter Meeting Session Topics

*(All session topics are subject to change)*

- 100 Years of Experimental Relativity
- 30 Demos in 60 Minutes
- 3-D Printing
- A Day at a School, K-12
- Approaches to Recruiting Women in Physics
- Assessing the Effectiveness of Laboratory Curricula
- Assessment Practices in Introductory Courses for the Life Sciences
- Astronomy Educations Research
- Best Practice in Preservice Teacher Preparation
- Best Practices in Educational Technology
- Drones and VR: Examples of Emerging Educational Technologies Across the World
- Early Career Teacher Experiences - Voices from the Field
- Effective Practices in Educational Technology
- First Billion Years of a Solar System
- Focus on Planetary Exploration
- Free & Open Source Tools for Teaching Physics
- Frontiers Session: Living and Working in the Space Beyond Earth
- Gender Considerations in the Laboratory
- Goals and Assessment for Computational Work in Physics Classes
- Graduate Student Topical Session
- Hands-on Outreach
- History of Space Science Outreach
- Implementing Research-based Instructional Strategies
- Innovations in Teaching Analytical Mechanics
- Integrating Computation Into Laboratories at All Levels
- Integrating computational imaging in the Laboratory
- Integration of Computation into the Curriculum on the Departmental Scale
- Interactive Lecture Demonstrations: Whats New? ILDs Using Clickers and Video Analysis
- Interdisciplinary Courses
- Introducing Computation into Introductory Physics Classes

- John Hubisz: Celebrating 59 Years of AAPT Distinguished Service
- K-12 Ideas from PTRA, PIRA, ALPHA
- Making Out-of-School STEM Welcoming Across Languages
- Math Foundations for Introductory Physics and Help for Struggling Students
- Medical Physics and Technology
- My Favorite Demo that Works - How & Why?
- Ordering of Topics
- PER and Student Motivation: Beyond Single Course Content
- PER in Latin America and at Hispanic-Serving Institutions in the US
- Physics at Hispanic Serving Institutions (HSIs): Challenges and Opportunities
- Physics on the Road
- Physics Outreach for Underserved Populations
- Physics Teacher Preparation in Different Countries throughout the World
- PhysTEC in 50 States
- Professional Skills for Graduate Students
- PTRA: A Holistic Approach to Physics Instruction: Integrating Common Core Mathematics Standards, Common Core ELA and NGSS in a 5 E Learning Cycle
- Recruiting Physics Teachers: Research and Best Practices
- Results from the First Safe Space for People of Color Meeting In PERC
- Science Cafe/Nerd Night: Scientists Engage the Public in Casual Settings
- Space Center Field Trip
- Space Science in Introductory Courses
- SPS Undergraduate Oral Talks
- SPS Undergraduate Research and Outreach Poster Session
- Student-ready Programs vs. College-ready Students
- Success Stories of Female Physicists
- Successful Online Astronomy Labs
- Teachers-in-Residence 3.0 - the Updated TIR
- Teaching with Data: Multi-messenger Astronomy
- The Impact of Policy and/or Regulations on Access to Higher Education in STEM Fields
- The Living Physics Course: New Ideas and Old Tricks
- The New Advanced Laboratory
- The Physics of Extreme Mineral Exploration
- The Wonderful World of AJP
- Use of Video in Preservice/Inservice Teacher Development

- Using Mass Media to Help Teach Physics
- UTeach at 20 years