2012 AAPT Winter Meeting
“The Wave Nature of Light & Matter”

Sessions

MONDAY (February 6)

8:00-9:00 am  DIY Technology for the Physics Classroom
8:00-9:00 am  Engaging More Students in Physics
8:00-10:00 am Undergraduate to Graduate Transition: Matching Expectations - Panel
8:00-10:00 am Overview of High School Physics in the U.S.
8:00-10:00 am Wave Nature of Matter – Part I
8:00-10:00 am Task Force on Teacher Preparation in Physics
8:00-10:00 am Animation Physics in Hollywood
8:00-10:00 am Integrating Math & Science to Prepare Pre-College Teachers
8:00-10:00 am Wave Nature of Matter – Part I
9:00-10:00 am  Pre High School
9:00-10:00 am  PER: Investigating Classroom Strategies

11:45-12:45 pm  Cracker barrels:
  • Physics Education Researchers
  • Planning the Next Two-Year College Tandem Meeting
  • Physics and Society Cracker barrel

12:45-2:45 pm  Physics Education Research around the World
12:45-2:45 pm  Online Physics Courses: Technology, Assessment, Experiences
12:45-2:45 pm  Methods of Teacher Evaluation
12:45-2:45 pm  Physics First
12:45-2:45 pm  How I Use Popular Media in Teaching Physics
12:45-2:45 pm  Physics by the #s: Mobile Communications in the Classroom (Including Diversity)
12:45-2:45 pm  Astronomy Research at the Small Observatory
12:45-2:45 pm  Best Practices for Outreach to Elementary or Middle School Teachers
12:45-2:45 pm  SPS Undergraduate Research and Outreach

6:00-7:30 pm  Teaching Physics around the World
6:00-7:30 pm  Frontiers in Space Exploration
6:00-7:30 pm  Teaching Across the Science Curricula: Engaging Students in Physics Curricula
6:00-7:30 pm  AP Physics B: The New Curricula and Assessments
6:00-7:30 pm  Teaching Methods for Physics Teacher Preparation
6:00-7:30 pm  Best Practices in the Use of Educational Technologies
6:00-7:30 pm  Physics and Society Education
6:00-7:30 pm  Undergraduate Research and Two-Year Colleges

7:30-9:00 pm  Poster Session I
   •  Poster Session I - Astronomy
   •  Poster Session I – Physic Education Research (PER)
   •  Poster Session I - Instructional Models and Resources

TUESDAY (February 7)

8:00-9:30 am  Challenging the Minds of Future Physicists and Engineers - Panel
8:00-9:30 am  Supporting Emergency Professional Development: Career Changers and Non-Physicists as Teachers
8:00-9:30 am  PER: Topical Understanding and Attitudes
8:00-9:30 am  Wave Nature of Matter – Part II
8:00-9:30 am  Professional Exchanges for Physics Teachers at the College and Pre-college Levels
8:00-9:30 am  Physics on Parade
8:00-9:30 am  Teaching Science Writing/Writing in Science
8:00-9:30 am  Using the Riches of Astronomy to Teach Physics
8:00-9:30 am  What Is the Point of the Instructional Lab? - Panel

12:15-1:15 pm  Cracker barrels:
   •  PER Graduate Students
   •  Future Directions of the Committee on Physics in Two-Year Colleges
   •  The Physics Educator

1:15-3:15 pm  PER Graduate Student Curriculum beyond the Core Courses
1:15-3:15 pm  SPIN-UP Ten Years Later
1:15-3:15 pm  Teaching with Technology
1:15-3:15 pm  Student Understanding of Concepts that Underline the Interpretation of Astronomical Data and Models
1:15-3:15 pm  Teacher Preparation around the World
1:15-3:15 pm  PER: Student Reasoning
1:15-3:15 pm  Best Practices for Increasing the Numbers of Women in Physics
1:15-3:15 pm  Effective Practices in the Instructional Laboratory

1:15-2:45 pm  Physics of Games, Animations & Game Interfaces and Using them to Teach
3:05-3:15 pm  Mentoring: Stories and Strategies
7:30-9:00 pm  Poster Session II
  • Poster Session II - Teacher Training and Enhancement
  • Poster Session II - Technologies
  • Poster Session II - Labs and Apparatus
  • Poster Session II - Pre-College/Informal
  • Poster Session II - Upper Division/Graduate
  • Poster Session II - A Potpourri of Interesting Teaching Topics

WEDNESDAY (February 8)

8:00-10:00 am  New Results in Astronomy Education Research
8:00-10:00 am  Computational and Online Tools for Teaching Physics
8:00-10:00 am  Pseudoscience
8:00-10:00 am  Two-Year College Guidelines - Panel
8:00-10:00 am  Reforming the Introductory Physics Course for Life Science Majors VI
8:00-10:00 am  Upper Division Physics
8:00-10:00 am  Interactive Lecture Demonstrations: Physics Suite Materials That Enhance

8:30-10:00 am  Implementing Matter and Interactions and Six Ideas that Shaped Physics
8:30-10:00 am  Introductory Physics Courses

9:00-10:00 am  Learning in Lecture

11:30–12:30 pm  Cracker barrel
  • Teaching Physics with “Real World” Problems

1:00-2:30 pm  The Search for Dark Matter
1:00-2:30 pm  Teaching Methods for Physics Teacher Preparation II
1:00-2:30 pm  Unusual Uses of Video Analysis in the Classroom
1:00-2:30 pm  Report on IUPAP International Conference on Women in Physics - Panel
1:00-2:30 pm  What Can we Learn about Learning from Research in Museums, Media, and Other Informal Environments?
1:00-2:30 pm  Physics of Everyday Devices
1:00-2:30 pm  PER: Student Reasoning and Problem Solving