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	Heliophysics
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