

2021 AAPT

Virtual Winter Meeting

at a Glance



All times are EST

Saturday, Jan. 9, 2021

- 10–10:30** AAPT WELCOME and Land Acknowledgement
- 10:30–11:30** Plenary, Geraldine Cox, Gemant Award Winner
- 11:30–12 noon** Exhibit Hall Break
- 11:30–12:30** SEAchange Discussion (DEI Resource Room)
- 12–1:15**
- A1.1 21st Century Physics in the Classroom
 - A1.2 Effective Practices in Educational Technology
 - A1.3 My Favorite Vernier Product
 - A1.4 PER: Assessment, Grading and Feedback
 - A1.5 Things We Will Keep from Remote Experiences in Teaching Physics Labs/Courses
 - A1.6 Upper Division Undergraduate
 - A1.7 Quantum Physics in Introductory Courses
 - A1.8 Support for Unprotected Faculty and Teachers
 - A1.9 Technology Playground
 - A1.10 Using Big Data and Machine Learning Understand Physics Outcomes
 - A1.11 Chemical vs Nuclear Reactions (K-12 Resource Room)
- 1:15–1:30** Break
- 1:30–2:45**
- A2.1 PER: Curriculum and Instruction
 - A2.2 Quantum Information / Quantum Computing in the Classroom
 - A2.3 Undergraduate Physics Education in China
 - A2.4 Using and Contributing to the Living Physics Portal
 - A2.5 Astrobiology & Exoplanets
 - A2.6 Lecture/Classroom
 - A2.7 Physics and Experimental Research on Black Holes
 - A2.8 Supporting K-12 Physics Educators
 - A2.9 PTRA Presents Perimeter: Evidence for Climate Change
 - A2.10 What to Say When Your Students Ask About Condensed Matter
 - A2.1-01PA Career Paths for PER students (undergrad to grad & after) (PANEL, Zoom)

- 2:45–3** Break
- 3–4** SPS Undergraduate Oral Talks (PANEL, Main Stage)
- 4–5** Section Representatives/Alternates Meeting (Zoom)

Sunday, Jan. 10, 2021

- 10:30–11:30** Exhibit Hall Break
- 10:30–11:30** K-12 Teachers' Meet-up
- 10:30–11:30** Early Career Meet-up
- 10:30–11:30** Two-Year College Meet-up
- 11:30–12:30** Plenary, Dr. Adriaan Bax, NIH Distinguished Investigator National Institutes of Health
- 12:30–1** Exhibit Hall Break
- 12:30–1:30** Vernier Software and Technology Commercial Workshop
- 12:30–1:30** What would you like to see from AAPT in terms of Equality, Diversity?

- 1–2:15**
- B1.1 21st Century Physics in the Classroom II
 - B1.2 Doing Laboratory Activities in an Online Learning Environment
 - B1.3 Effective Practices in Educational Technology II
 - B1.4 Get the Facts Out!
 - B1.5 PER: Diverse Investigations
 - B1.6 Physics on the Road and Art of Demonstrations (Waxing or Waning?)
 - B1.7 Student Topical Discussion & Social (PANEL, Zoom)
 - B1.8 Teaching Science in a Culture of Mistrust
 - B1.9 Making Physics Labs More Accessible: Perspectives of Current Physics Students I
 - B1.10 Flip Your Classroom: How to Use Flipped Learning in Both a Remote and Traditional Classroom (K-12 Resource Room)

2:15–2:30 Break

- 2:30–3:45**
- B2.1 Astronomy Education Research I
 - B2.2 Built-In Assessments
 - B2.3 Champions and Change: Curriculum, Community and Campuses I
 - B2.4 High School
 - B2.5 PER: Diversity, Equity & Inclusion
 - B2.6 Physics Education from Around the World
 - B2.7 Physics Programs at HSIs/MSIs
 - B2.8-01PA Introduction to Zooniverse Citizen Science in Your Classroom (PANEL, Zoom)

3:45–4 Break

- 4–5** AAPT Meeting of the Members
- 7–8** K-12 Happy Hour

Monday, Jan. 11, 2021

- 10:30–11:45**
- C1.1 Teaching the Introductory Physics for the Life Sciences (IPLS) Course
 - C1.2 Astronomy (Posters)
 - C1.3 Labs/Apparatus (Posters)
 - C1.4 Physics Education Research I (Posters)
 - C1.5 Lecture/Classroom (Posters)
 - C1.6 Physics Education Research II (Posters)
 - C1.7 Paradigms in Physics Potpourri
 - C1.8 Teacher Training/Enhancement (Posters)
 - C1.9 Changing Graduate Admissions: A Topical Discussion

11:45–12 Break

12–1 Plenary, McKenzie Mack Group (MMG)

1–1:30 Exhibit Hall Break

- 1–2** Discussion and Thoughts; McKensie Mack Plenary Follow Up
- 1–2** Vernier Software and Technology Commercial Workshop

- 1:30–2:45**
- C2.1 Applying Network Analysis to Physics Education
 - C2.2 B-sides and Bloopers from Famous Physicists PLUS Cartoon Physics
 - C2.3 Champions and Change: Curriculum, Community and Campuses II

- C2.4 Effective Practices in Educational Technology III
- C2.5 Highlights of Astronotes
- C2.6 PER: Student and Instructor Support & Professional Development, Program and Institutional Change
- C2.7 Physics Education: International Perspectives
- C2.8 Promoting Retention and Making Physics More Accessible
- C2.9 Recent Developments and Perspectives in Research on Student Reasoning
- C2.10 Climate Change Solutions: There is HOPE!

- 2:45–3:45** Disability Meet-up
- 2:45–3:45** Meet-up for Members and Supporters of LGBTQ Community

- 2:45–3:45** Retired Physicist's Meet-up
- 2:45–3:45** International Meet-up
- 2:45–3:45** AAPT Tweet-up (zoom)
- 2:45–3:45** American Institute of Physics Commercial Workshop

- 3:30–4:30** PERTG Town Hall
- 4–5** TEAM UP – What is it all about? – DEI
- 4:30–6** Game Night
- 7–8** K-12 Happy Hour

Tuesday, Jan. 12, 2021

- 10:30–11:30** AAPT Awards Session, Doc Brown Futures Award: Kenric Davies
- 11:30–12:30** Bringing Culturally Relevant Pedagogy into Physics Education – DEI

- 11:30–12:45**
- D1.1 Best Practices in Educational Technology Including PICUP and other Cool Computational Stuff!
 - D1.2 Building a STEM-Wide Culture of Change
 - D1.3 Effective Practices in Educational Technology IV
 - D1.4 Introductory Courses
 - D1.6 PER: Student Content Understanding, Problem-Solving and Reasoning
 - D1.6 POGIL and Teaching Methods from other Disciplines
 - D1.8 “Ooh I want to try that!” Best New Labs We've Seen
 - D1.9 Making Physics Labs More Accessible: Perspectives of Current Physics Students II
 - D1-10 Applied Improvisation for Physics

11:30–12:45 Digital Education Commercial Workshop

12:45–1 Break

1–2 Plenary: Wendy Freedman John and Marion Sullivan University Professor in Astronomy and Astrophysics and the College, Department of Astronomy and Astrophysics University of Chicago

2–2:30 Exhibit Hall Break

2:30–3:30 Presidential Transfer with DSC Awards and Fellows

2:30–3:45 Professional Skills for Students