

2025 AAPT

WINTER MEETING

JANUARY 18-21
ST. LOUIS, MO



Friday, January 17, 2025

4-7 pm	REGISTRATION PICK-UP	Depot Registration Office
4-5 pm	Investment Committee	Midway Suites 1
4-9 pm	Lactation Room	Station Master Room
4-9 pm	Quiet Room	Conductor Room
5-8 pm	AAPT Board of Directors Meeting I	Knickerbocker/Jeffersonian

Saturday, January 18, 2025

7 am-5 pm	REGISTRATION PICK-UP	Depot Registration Office
7 am-10 pm	Lactation Room	Station Master Room
7 am-10 pm	Quiet Room	Conductor Room
8 am-5 pm	OPTYCs - Sensor-based Physics Activities Workshop (Advance Registration Required)	Illinois Central
8 am-6 pm	OPTYCs - CERES - Cohort 2	Missouri Pacific
8 am-10 pm	OPTYCs - Leadership Institute - Cohort 2	Frisco/Burlington
8 am-12 pm	AAPT Board of Directors Meeting II	Knickerbocker/Jeffersonian

WORKSHOPS

8-12	PICUP: Integrating Computation into Introductory Physics at TYCs	Midway Suites 5
8-12	AP Physics Course Revisions for 2025 Exams	Midway Suites 6
8-12	Developing Culture-based Approaches to Physics Instruction	Midway Suites 7
8-12	From Atoms to Quantum Computers: Train the Trainer Workshop for High School Teachers	Midway Suites 8
12-1	LUNCH ON YOUR OWN	

WORKSHOPS

1-5	Bridging Classical & Quantum Realms Using Nuclear Magnetic Resonance	Midway Suites 8
1-5	Quantum Computing: What's the Buzz?	Midway Suites 9
1-2	Awards Committee (Invite Only)	Midway Suites 1
1-2	Meetings Location Committee	Midway Suites 2
2-3	Meeting Planning (MPC) & 2025 Annual Meeting Planning (AMP 25)	Midway Suites 1

2-3	Nominating Committee	Midway Suites 3
2-3	Membership & Benefits Committee	Midway Suites 2
3-4	ALPhA Open meeting	Midway Suites 1
3-4	Publications Committee	Midway Suites 2
3:45-5	Section Representatives and Officers	Midway Suites 6
4-5	Review Board	Midway Suites 1
4:45-5:15	First Timers Gathering	Midway Suites 11
5-6:30	Welcome Reception and Exhibit Hall Opening	Midway West
5:30-6:30	POSTER SESSION I and SPS	Midway West
7-8:30	DINNER ON YOUR OWN	
7:30-10:30	Unistellar Workshop: Observing with Unistellar Telescopes	Outdoor Courtyard Midway Suites 9 (weather backup)
8-9	Career Speed Networking	Pegram
8-9	Area Committee Leadership	Midway Suites 1
8-9	Governance Structure Meeting	Midway Suites 2

Sunday, January 19, 2025

7 am-3 pm	REGISTRATION PICK-UP	Depot Registration Office
7 am-10 pm	Lactation Room	Station Master Room
7 am-10 pm	Quiet Room	Conductor Room
7:15-7:45	Winter Meeting 101	New York Central
7:45-8:45	Committee on Contemporary Physics	Midway Suites 1
7:45-8:45	Committee on Physics in High Schools	Midway Suites 11

7:45-8:45	Committee on Research in Physics Education	Midway Suites 3
7:45-8:45	Committee on Apparatus	Midway Suites 4
7:45-8:45	Committee on Professional Concerns	Midway Suites 6
7:45-8:45	Committee on Educational Technologies	Midway Suites 7
8 am-6 pm	OPTYCS - DEI Program - Cohort 1 (Advanced Reg. Reqd.)	Frisco/Burlington
8 am-6 pm	OPTYCS - CERES - Cohort 2 (Advanced Reg. Reqd.)	Missouri Pacific
9 am-5 pm	K-12 Teacher Lounge Open	Midway Suites 11
9 am-5 pm	DEI Resource Room Open	Midway Suites 5

SESSIONS

9-9:50 A1	Ready, Set, Teach: Strategies for Your Physics Classroom	Grand Ballroom A
9-9:50 A2	Innovations in Assessment	Grand Ballroom B
9-9:50 A3	Using AI in the Classroom	Grand Ballroom C
9-9:50 A4	Citizen Science in the K-12 Physics Classroom - Part 1	Grand Ballroom D
9-9:50 A5	Interactive: Opening Up Demonstrations, Pathways in Physics	Regency Ballroom A&B Regency Ballroom C

9-9:50 A6	Interactive: Enhancing Student Engagement	Regency Ballroom C
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SESSIONS

10-11 B1	K-12 Quantum Education for Workforce Development	Grand Ballroom A
10-11 B2	Innovations in Course Design	Grand Ballroom B
10-11 B3	Frontiers in Space Science and Astronomy	Grand Ballroom C
10-11 B4	Citizen Science in the K-12 Physics Classroom - Part 2	Grand Ballroom D
10-11 B5	Teacher Share-a-thon	Regency Ballroom A&B
10-11 B6	Interactive: Implementing NGSS-based Practices in Physics Classrooms	Regency Ballroom C

10-11:30	EXHIBIT HALL Open	Midway West
11-11:30	Coffee Break and Raffle in EXHIBIT HALL	Midway West
11:30-12:20	Melba Newell Phillips Medal - Karen Jo Matsler	Grand Ballroom E&F
12:20-12:30	Barbara Wolff-Reichert Travel Grant Presentation	Grand Ballroom E&F

12:30-2	LUNCH ON YOUR OWN	
12:30-5	K-12 Lounge Open	Midway Suites 11
12:30-5	DEI Resource Room Open	Midway Suites 5
1-2	Commercial Workshop: Logger Pro Is Retiring. Make a Plan for What's Next!	New York Central

1:30-5:30	EXHIBIT HALL Open	Midway West
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SESSIONS

2-3 C1	Beyond Intro	Grand Ballroom A
2-3 C2	PER: Student Success	Grand Ballroom B
2-3 C3	Celebrating International Year of Quantum Physics with AJP and TPT - Part 1	Grand Ballroom C

2-3 C4	Analysis of AP Physics Student Performance on Multiple-Choice Questions	Grand Ballroom D
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2-3 C5	Interactive: STEP UP! Your Physics Classroom	Regency Ballroom A&B
2-3 C6	Vertical Articulation from K-8 to HS with the NGSS Science Practices	Regency Ballroom C

2:30-3:30	Commerical Workshop: Explore Motion and Force with the Newest Vernier tools	New York Central
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SESSIONS

3-4 D1	Quantum Education Promotion (QEP): Initiatives and Challenges in Undergraduate Programs - Part 1	Grand Ballroom A
3-4 D2	PER: Science and Math	Grand Ballroom B
3-4 D3	Celebrating International Year of Quantum Physics with AJP and TPT - Part 2	Grand Ballroom C

3-4 D4	Embracing the Dark Side: Teaching Light Pollution Concepts to K-16	Grand Ballroom D
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3-4 D5	PTRA Presents Make, Take, Learn, Do	Regency Ballroom A&B
3-4 D6	AP Physics: Revised Course and Exams for 2024-25	Regency Ballroom C

4-5	POSTER SESSION II	Midway West
5-5:30	Break in EXHIBIT HALL	Midway West

5:30-6:30	PLENARY: Ben Zwickl; SPS Chapter Advisor Award	Grand Ballroom E&F
6:30-8:30	DINNER ON YOUR OWN	
8:30-9:30	Meeting of the Members	Grand Ballroom E&F
9:30-11:30	Game Night	Pegram

Monday, January 20, 2025

7:30 am-3 pm	REGISTRATION PICK-UP	Depot Registration Office
7 am-10 pm	Lactation Room	Station Master Room
7 am-10 pm	Quiet Room	Conductor Room
7:45-8:45	Committee on International Physics Education	Midway Suites 1
7:45-8:45	Committee on History and Philosophy in Physics	Midway Suites 2
7:45-8:45	Committee on Science Education for the Public	Midway Suites 3
7:45-8:45	Committee on Physics in Pre-HS Education	Midway Suites 11
7:45-8:45	Committee on Diversity in Physics	Midway Suites 9
7:45-8:45	Committee on Laboratories	Midway Suites 7
7:45-8:45	Bauder Endowment and Venture Fund Review	Midway Suites 8
9-10	John David Jackson Award - Laurie McNeil	Grand Ballroom E&F
10 am-5 pm	APS-AAPT Working Group (Invite Only)	Wabash Cannonball

10-10:30	Coffee Break in the EXHIBIT HALL	Midway West
10-11	MacMillan Learning: What Do You Need In Your Lab Course? Midway St. 6	Midway West
10-11:30	EXHIBIT HALL OPEN	Midway West
10:30-11:30	Commercial Workshop: Teaching Rotation with the Meter Stick Torque Set	New York Central

10:30-1	BRUNCH/LUNCH ON YOUR OWN	
10:30-5:30	K-12 Teacher Lounge Open	Midway Suites 11
10:30-5:30	DEI Resource Room Open	Midway Suites 5
11-12	Quantum Activities for the Classroom	Regency Ballroom A&B
11 am-1 pm	SPS Undergraduate Awards Reception (Invite Only)	Illinois Central
1-1:30	Break in the EXHIBIT HALL	Midway West
1-5	EXHIBIT HALL OPEN	Midway West

SESSIONS

1:30-2:20 E1	Frontiers of Quantum Research 1: Quantum Sensing and Measurement	Grand Ballroom A
1:30-2:20 E2	Supporting Students and Faculty: TYCs	Grand Ballroom B
1:30-2:20 E3	PICUP: Ideas for Integrating Computation into Physics Courses	Grand Ballroom C
1:30-2:20 E4	AI in Physics Education	Grand Ballroom D
1:30-2:20 E5	Women+ and Gender Minorities in Physics: A Roundtable Discussion	Regency Ballroom A&B
1:30-2:20 E6	Teaching the Introductory Physics for Life Sciences (IPLS) Course	Regency Ballroom C

2:30-3:20 F1	Frontiers of Quantum Research 2: Quantum Materials	Grand Ballroom A
2:30-3:20 F2	Culture-based Approaches to Physics Education - Part 1	Grand Ballroom B
2:30-3:20 F3	PICUP: Integrating Computation and Experiment	Grand Ballroom C
2:30-3:20 F4	21st Century Physics and Astron. in the Classroom - Part 1	Grand Ball D
2:30-3:20 F5	Interactive: Technology in the Physics Classroom	Regency Ballroom A&B
2:30-3:20 F6	IPLS Poster Session	Regency Ballroom C

SESSIONS

3:30-4:20 G1	Innovation in the Physics Classroom	Grand Ballroom A
3:30-4:20 G2	Culture-based Approaches to Physics Education - Part 2	Grand Ballroom B
3:30-4:20 G3	PICUP: Integrating Computation in Upper-Level Courses	Grand Ballroom C
3:30-4:20 G4	21st Century Physics and Astronomy in Classroom - Part 2	Grand Ball D
3:30-4:20 G6	Physics with Phones - Waves and Sound	Regency Ballroom C
4:30-5	Break and Raffle drawing in EXHIBIT HALL	Midway West
5-5:40	Doc Brown Futures Award - Jonathan Perry	Grand Ballroom E&F
5:40-6	Lillian McDermott Medal - Bruce Mason and AAPT Fellows	

SESSIONS

6-8	DINNER ON YOUR OWN	
8-9	Committee on Graduate Education in Physics	Midway Suites 9
8-9	Committee on Space Science and Astronomy	Midway Suites 1
8-9	Committee on Teacher Preparation	Midway Suites 2
8-9	Committee on Women in Physics	Midway Suites 3
8-9	Committee on Physics in Undergrad Education	Midway Suites 4
8-9	PTRA Oversight Committee	Midway Suites 6
8-9	Physics Bowl Advisory Committee	Midway Suites 7
8-9	Committee on Physics in Two-Year Colleges	Midway Suites 5
9-10	Area Chairs Meeting	Midway Suites 1
9-10	OPTYCs Town Hall	Midway Suites 5

Tuesday, January 21, 2025

7:30-11 am	REGISTRATION PICK-UP	Depot Registration Office
7 am-10 pm	Lactation Room	Station Master Room
7am-10 pm	Quiet Room	Conductor Room
8-9	Finance Committee	Midway Suites 1

SESSIONS

8-8:50 H1	Quantum Education Promotion (QEP): Initiatives and Challenges in Undergraduate programs - Part 2	Grand Ballroom A
8-8:50 H2	Enhancing Diversity, Equity and Inclusion	Grand Ballroom B
8-8:50 H3	Labs/Apparatus	Grand Ballroom C
8-8:50 H4	Physics Degree Variations	Grand Ballroom D
8-8:50 H5	Interactive: Visualizations in the Physics Classroom	Regency Ballroom A&B
8-8:50 H6	Physics with Phones - Magnetism	Regency Ballroom C

SESSIONS

9-9:50 I1	Unlikely Pairing with Physics	Grand Ballroom A
9-9:50 I2	PER: Upper-level and Graduate Education	Grand Ballroom B
9-9:50 I3	Approaches to Intro Physics	Grand Ballroom C
9-9:50 I4	Cultivating Community in Physics Classes	Grand Ballroom D
9-9:50 I5	STEP-UP Lesson - Interactive Session	Regency Ballroom A&B
9-9:50 I6	Let Them Teach: Undergraduates Doing Informal Science Programs	Regency Ballroom C

SESSIONS

10-10:50 J1	Innovations in Cross-Disciplinary Connections	Grand Ballroom A
10-10:50 J2	Increasing Diversity & Persistence in Physics: A Data-Driven Approach	Grand Ballroom B
10-10:50 J3	Quantum Education for Workforce Development	Grand Ballroom C
10-10:50 J4	Rethinking the Undergraduate Physics Curriculum	Grand Ballroom D
10-10:50 J5	Retain and Renew: PD Strategies for Teacher Growth	

SESSIONS

10-10:50 J6	Embodying Physics	Regency Ballroom A&B
11-11:50	Oersted Medal - Fred Goldberg	Regency Ballroom C
11:50-12	Presidential Transfer	Grand Ballroom E&F