

# 2025 AAPT

# WINTER MEETING

JANUARY 18-21  
ST. LOUIS, MO



## Friday, January 17, 2025

4-7 pm	<b>REGISTRATION PICK-UP</b>	<b>Depot Registration Office</b>
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	<b>REGISTRATION PICK-UP</b>	<b>Depot Registration Office</b>
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 11
4:45-5:15	First Timers Gathering	Midway Suites 11
5-6:30	<b>Welcome Reception and Exhibit Hall Opening</b>	<b>Midway West</b>
5:30-6:30	<b>POSTER SESSION I</b> 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	<b>REGISTRATION PICK-UP</b>	<b>Depot Registration Office</b>
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	<b>EXHIBIT HALL</b> Open	<b>Midway West</b>
11-11:30	Coffee Break and Raffle in <b>EXHIBIT HALL</b>	<b>Midway West</b>
11:30-12:30	<b>Melba Newell Phillips Medal - Karen Jo Matsler</b>	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	<b>Commercial Workshop:</b> Logger Pro Is Retiring. Make a Plan for What's Next!	New York Central

1:30-5:30	<b>EXHIBIT HALL</b> Open	<b>Midway West</b>
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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	<b>Commerical Workshop:</b> 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 PTRAs 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	<b>POSTER SESSION II</b>	Midway West
5-5:30	Break in <b>EXHIBIT HALL</b>	<b>Midway West</b>

5:30-6:30	<b>PLENARY: Ben Zwickl;</b> SPS Chapter Advisor Award	Grand Ballroom E&F
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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	<b>REGISTRATION PICK-UP</b>	<b>Depot Registration Office</b>
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	<b>John David Jackson Award - Laurie McNeil</b>	Grand Ballroom E&F
10 am-5 pm	APS-AAPT Working Group (Invite Only)	Wabash Cannonball
10-10:30	Coffee Break in the <b>EXHIBIT HALL</b>	<b>Midway West</b>
10-11	<b>MacMillan Learning:</b> What Do You Need In Your Lab Course? <b>Midway St. 6</b>	<b>Midway West</b>
10-11:30	<b>EXHIBIT HALL OPEN</b>	<b>Midway West</b>
10:30-11:30	<b>Commercial Workshop:</b> 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 <b>EXHIBIT HALL</b>	<b>Midway West</b>
1-5	<b>EXHIBIT HALL OPEN</b>	<b>Midway West</b>

### 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 <b>EXHIBIT HALL</b>	<b>Midway West</b>
5-5:40	<b>Doc Brown Futures Award - Jonathan Perry</b>	Grand Ballroom E&F
5:40-6	<b>Lillian McDermott Medal - Bruce Mason</b> and AAPT Fellows	
6-8	DINNER ON YOUR OWN	

6-8	DINNER ON YOUR OWN	
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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	<b>REGISTRATION PICK-UP</b>	<b>Depot Registration Office</b>
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	Regency Ballroom A&B

10-10:50	J6 Embodying Physics	Regency Ballroom C
11-11:50	<b>Oersted Medal - Fred Goldberg</b>	Grand Ballroom E&F
11:50-12	Presidential Transfer	Grand Ballroom E&F