







Friday, January 17, 2025

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

7 am—10 pm Quiet Room Conductor Room 8 am—5 pm OPTYCs - Sensor-based Physics Activities Workshop (Advance Registration Required) Illinois Central 9 am—6 pm OPTYCs - CERES - Cohort 2 Missouri Pacific 9 am—10 pm OPTYCs - Leadership Institute - Cohort 2 Frisco/Burlington 9 am—12 pm AAPT Board of Directors Meeting Il 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 9 1—2 Meetings Location Committee Midway Suites 1 1—2 Meetings Location Committee Midway Suites 1 1—2 Meeting Planning (MPC) & 2025 Annual Meeting Planning (AMP 25) 1—2 Meeting Planning (MPC) & 2025 Annual Meeting Planning (AMP 25) 1—3 Mominating Committee Midway Suites 1 1—4 Midway Suites 3 1—4 Publications Committee Midway Suites 3 1—5 Review Board Midway Suites 1 1—6 Review Board Midway Suites 1 1—7 Midway Suites 1 1—8 Midway Suites 1 1—9 Midway Suites 1 1—9 Midway Suites 1 1—1 Midway Suites 1 1 Midway Suites 1	л—о pіп	AAI I board of birectors weeting i	Millorei Dockei/Jeilei Soillaii
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Midway Suites 9 (weather backup 3-9 Career Speed Networking Pegram 3-9 Area Committee Leadership Midway Suites 1	7:30–10:30	Unisteller Workshop: Observing with Unist	ellar Telescopes Outdoor Courtyard
R-9 Career Speed Networking Pegram R-9 Area Committee Leadership Midway Suites 1			
· · · · · · · · · · · · · · · · · · ·	3-9	Career Speed Networking	
3–9 Governance Structure Meeting Midway Suites 2	3–9	Area Committee Leadership	Midway Suites 1
	3–9	Governance Structure Meeting	Midway Suites 2

Sunday, January 19, 2025

	Carracy, Carracry 10, 2020		
7 am-3 pm	REGISTRATION PICK-UP	Depot Registration Office	
7 am-10 pi	n Lactation Room	Station Master Roo	
7 am-10 pi	n Quiet Room	Conductor Roo	
7:15-7:45	Winter Meeting 101	New York Centr	
7:45-8:45	Committee on Contemporary Physics	Midway Suites	
7:45-8:45	Committee on Physics in High Schools	Midway Suites	

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	
0_0.50_01	Pandy Sat Tanch: Stratagine for Your Physics Classroom	Grand Rallroom A

SESSIONS				
9-9:50 A1	Ready, Set, Teach: Strategies for Your Physics Classroo	m 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 F	hysics		
Regency Ballroom A&B				
9-9:50 A6	Interactive: Enhancing Student Engagement	Regency Ballroom C		
	0000000			

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

11:30–12:30 Melba Newell Phillips Medal – Karen Jo Matsler Grand Ballroom E&F

Midway West

Midway West

Regency Ballroom C

10-11:30 **EXHIBIT HALL** Open

12:30-2 LUNCH ON YOUR OWN

11-11:30 Coffee Break and Raffle in **EXHIBIT HALL**

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. M	Make a Plan for What's Next!
		New York Central
1:30-5:30	EXHIBIT HALL Open	Midway West
	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	s with AJP and TPT – Part 1
		Grand Ballroom C
2-3 C4	Analysis of AP Physics Student Performance on M	Iultiple-Choice Questions
		Grand Ballroom D
2-3 C5	Interactive: STEP UP! Your Physics Classroom	Regency Ballroom A&B

	tools	New York Centra
	SESSIONS	
3-4 D1	Quantum Education Promotion (QEP): Initiatives a	and Challenges in
	Undergraduate Programs – Part 1	Grand Ballroom
3-4 D2	PER: Science and Math	Grand Ballroom E
3-4 D3	Celebrating International Year of Quantum Physic	s with AJP and TPT – Part 2
		Grand Ballroom (
3-4 D4	Embracing the Dark Side: Teaching Light Pollutio	n Concepts to K-16 Grand
		Ballroom [

2:30–3:30 **Commerical Workshop:** Explore Motion and Force with the Newest Vernier

2–3 C6 Vertical Articulation from K–8 to HS with the NGSS Science Practices

	3–4 D4	Embracing the Dark Side: Teaching Light Pollution Co	ncepts to K-16 Grand
fice			Ballroom D
oom	3-4 D5	PTRA Presents Make, Take, Learn, Do	Regency Ballroom A&B
oom	3-4 D6	AP Physics: Revised Course and Exams for 2024-25	Regency Ballroom C
ntral	4-5	POSTER SESSION II	Midway West
es 1	5-5:30	Break in EXHIBIT HALL	Midway West
s 11	5:30-6:30	PLENARY: Ben Zwickl; SPS Chapter Advisor Award	Grand Ballroom E&F

 6:30-8:30
 DINNER ON YOUR OWN
 8-9

 8:30-9:30
 Meeting of the Members
 Grand Ballroom E&F
 8-9

 9:30-11:30
 Game Night
 Pegram
 8-9

Monday, January 20, 2025

			8–9
	n REGISTRATION PICK-UP	Depot Registration Office	8–9
7 am–10 pm	Lactation Room	Station Master Room	8–9
7 am–10 pm	Quiet Room	Conductor Room	9–10
7:45–8:45	Committee on International Physics Education	Midway Suites 1	9–10
′:45–8:45	Committee on History and Philosophy in Physics	•	
7:45–8:45	Committee on Science Education for the Public		
':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	7:30–1
7:45–8:45	Committee on Laboratories	Midway Suites 7	7 am-1
7:45–8:45	Bauder Endowment and Venture Fund Review	Midway Suites 8	7am-1
9–10	John David Jackson Award – Laurie McNeil	Grand Ballroom E&F	8–9
0 am-5 pm	APS-AAPT Working Group (Invite Only)	Wabash Cannonball	
10-10:30	Coffee Break in the EXHIBIT HALL	Midway West	8–8:50
0-11	MacMillan Learning: What Do You Need In You	r Lab Course? Midway St. 6	
10-11:30	EXHIBIT HALL OPEN	Midway West	8-8:50
0:30-11:30	Commercial Workshop: Teaching Rotation with	th the Meter Stick Torque	8-8:50
	Set	New York Central	8-8:50
10:30-1	BRUNCH/LUNCH ON YOUR OWN		8-8:50
10:30-5:30	K-12 Teacher Lounge Open	Midway Suites 11	8-8:50
0:30-5:30	DEI Resource Room Open	Midway Suites 5	
11–12	Quantum Activities for the Classroom	Regency Ballroom A&B	9-9:50
1 am-1 pm	SPS Undergraduate Awards Reception (Invite 0	nly) Illinois Central	9-9:50
-1:30	Break in the EXHIBIT HALL	Midway West	9-9:50
1–5	EXHIBIT HALL OPEN	Midway West	9-9:50
	SESSIONS	•	9-9:50
:30-2:20 E1	Frontiers of Quantum Research 1: Quantum Ser	ising and Measurement	9-9:50
		Grand Ballroom A	
:30-2:20 E2	Supporting Students and Faculty: TYCs	Grand Ballroom B	
:30-2:20 E3	PICUP: Ideas for Integrating Computation into Pl	hysics Courses	
		Grand Ballroom C	10-10:
:30-2:20 E4	Al in Physics Education	Grand Ballroom D	10-10:
:30-2:20 E5	Women+ and Gender Minorities in Physics: A Ro	oundtable Discussion	
	,	Regency Ballroom A&B	10-10:
1:30-2:20 E6	Teaching the Introductory Physics for Life Scien	0 ,	10-10:
		Regency Ballroom C	10-10:
0.20 2.20 E1	Frontiers of Quantum Research 2: Quantum Ma	0 ,	
	Culture-based Approaches to Physics Education		10-10:
	PICUP: Integrating Computation and Experiment		11–11:
	0 0 1		11:50-
	21st Century Physics and Astron. in the Classro		
	Interactive: Technology in the Physics Classroor		
2:30–3:20 F6	IPLS Poster Session	Regency Ballroom C	
	SESSIONS		
	Innovation in the Physics Classroom	Grand Ballroom A	
	Culture-based Approaches to Physics Education		
3:30–4:20 G3	PICUP: Integrating Computation in Upper-Level	Courses Grand Ballroom C	
0 00 4 00 04	04 10 1 DI : 14 1 : 01	D 10 0 1D 11D	

3:30-4:20 G4 21st Century Physics and Astronomy in Classroom - Part 2 Grand Ball D

Lillian McDermott Medal – Bruce Mason and AAPT Fellows

Regency Ballroom C

Grand Ballroom E&F

Midway West

3:30-4:20 G6 Physics with Phones - Waves and Sound

DINNER ON YOUR OWN

5-5:40

5:40-6

Break and Raffle drawing in EXHIBIT HALL

Doc Brown Futures Award – Jonathan Perry

OPTYCs Town Hall Tuesday, January 21, 2025

Committee on Graduate Education in Physics

Committee on Space Science and Astronomy

Committee on Physics in Undergrad Education

Committee on Physics in Two-Year Colleges

Committee on Teacher Preparation

Committee on Women in Physics

Physics Bowl Advisory Committee

PTRA Oversight Committee

Area Chairs Meeting

8-9

8-9

Midway Suites 9

Midway Suites 1

Midway Suites 2

Midway Suites 3

Midway Suites 4

Midway Suites 6

Midway Suites 7

Midway Suites 5

Midway Suites 1

Midway Suites 5

Tuesday, January 21, 2025		
7:30-11 am	REGISTRATION PICK-UP D	epot Registration Office
7 am-10 pm	Lactation Room	Station Master Room
7am-10 pm		Conductor Room
8–9	Finance Committee	Midway Suites 1
	SESSIONS	
8-8:50 H1	Quantum Education Promotion (QEP): Initiatives and	d 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 12	PER: Upper-level and Graduate Education	Grand Ballroom B
9-9:50 13	Approaches to Intro Physics	Grand Ballroom C
9-9:50 14	Cultivating Community in Physics Classes	Grand Ballroom [
9-9:50 15	STEP-UP Lesson – Interactive Session	Regency Ballroom A&I
9-9:50 16	Let Them Teach: Undergraduates Doing Informal S	cience 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 Da	ta-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 Grow	<i>r</i> th
		Regency Ballroom A&E
10-10:50 J6	Embodying Physics	Regency Ballroom C
11-11:50	Oersted Medal – Fred Goldberg	Grand Ballroom E&F
11:50-12	Presidential Transfer	Grand Ballroom E&F