

## Friday, January 11, 2019

8 a.m.–11 p.m.	Quiet Room	River Oaks
8 a.m.–11 p.m.	Lactation Room	Focus
4–5 p.m.	Finance Committee	Monarch
4–7 p.m.	<b>REGISTRATION</b>	Woodway Foyer
5–6 p.m.	AAPT New Board Orientation	Monarch
6:30–9:30 p.m.	AAPT Board of Directors I	Monarch

## Saturday, January 12, 2019

6 a.m.–11 p.m.	Quiet Room	River Oaks
6 a.m.–11 p.m.	Lactation Room	Focus
7 a.m.–4 p.m.	<b>REGISTRATION</b>	Woodway Foyer
8–9:30	Publications Committee	Chevy Chase
8–9:30	Meetings Committee	West Alabama

### WORKSHOPS ARE AT UNIVERSITY OF HOUSTON

8–12	W01	Learn to Create Interactive Physics Simulations for Phones, Tablets, and Computers in Just 4 Hours	Fleming 231
8–12	W02	STEP UP 4 Women	Farish 213
8–12	W03	Introduction to LaTeX for Teachers and Students	Fleming 235
8–12	W04	PTRA: Quantum Cryptography: An Applied Way to Teach the Basics of Quantum Mechanics	Farish 215
8–12	W05	The Colliding Neutron Stars GW170817: A Nuclear Astrophysics Case Study for the Classroom	Farish 217
8–12	W06	Computational Modeling Using Glowscript in Introductory Physics	Farish 218
8–12	W07	Intro to Modeling Instruction, a Research-Based Curriculum	Farish 219
8–12	W08	Promoting STEM Engagement by Creating Pop-Culture Projects	Fleming 233
8–12	W09	Fun and Engaging Labs	Fleming 239
8–12	W10	LIGO & Interferometers	Fleming 232
10:15–4:45		AAPT Board of Directors II	Monarch
11:30–2:30		Resource Letters Committee	West Alabama
1–3		Field Trip to MD Anderson Cancer Center	Offsite
1–5	W14	PICUP: Integrating Computation into Introductory Physics	Farish 213
1–5	W15	Building the Living Physics Portal Community	Fleming 235
1–5	W18	Teaching Systems and Energy in Algebra-based Physics	Farish 215
1–5	W19	Neutrino Masterclass	Fleming 231
1–5	W20	Deep Learning with Python	Fleming 232
1–5	W21	Teaching Introductory Physics in an Earth & Space Science Context – Resources for Hands-on & Minds-on Activities	Fleming 233
2:30–4:30		Nominating Committee	Chevy Chase
4–6		Identifying and Responding to Racial Microaggressions at (K-16) School	West Alabama
5:30–6:30		New Chairs Orientation	San Felipe
5:30–6:30		Section Representatives and Officers	Tanglewood
5:30–7		ALPhA Open Meeting	Westchester
5:30–7		Undergraduate Meet-up	Daily Grill Restaurant
6:30–7:30		#AAPTWM19 Tweetup	Daily Grill Restaurant
6:30–8		Programs and Planning I	San Felipe
7:30–9		<b>REGISTRATION</b>	Woodway Foyer
8–10		Exhibit Hall Open and Welcome Reception	Woodway I & II
8–10		SPS Undergraduate Research and Outreach Posters	Woodway I

## Sunday, January 13, 2019

6 a.m.–11 p.m.	Quiet Room	River Oaks	
6 a.m.–11 p.m.	Lactation Room	Focus	
7 a.m.–4 p.m.	<b>REGISTRATION</b>	Woodway Foyer	
7–8:30	First Timers' Gathering	Monarch	
7:30–9	Review Board	Chevy Chase	
8–9	Physics Bowl Advisory Committee	Bellaire	
8–9	SPS Advisor Meet and Greet	White Oak Restaurant	
8–10	Identifying and Addressing Subtle Biases in the Workplace: Microaggressions	West Alabama	
8–12	W23	PICUP: Integrating Computation into Upper-Level Phys.	Fleming 231
8–12	W26	Pedagogical Content Knowledge of Teaching Assistants	Fleming 233
8–12	W27	Are You Testing What You Think You Are Testing? An Introduction to Factor Analysis	Farish 213
8–12	W28	Intro to Using Robotic Telescopes in Student Research	Farish 215
8–12	W29	A Suite of Research-based Labs for E&M	Fleming 239
8–12	W30	Making Good Physics Videos	Fleming 232
8–12	W31	Space Center Field Trip	Offsite
8–12	W32	Integrating NGSS Practices with the Physics Through Evidence – Empowerment Through Reasoning Suite	Farish 217
8–12	W33	Fun, Engaging, Effective, Research-Validated Lab Activities and Demos for Introductory University, College & High School Physics	Fleming 236
8:30–10		High School Share-a-thon	Plaza II
9–10		Venture/Bauder Fund Committees	Grand Ballroom III
9–10		Governance Structure (COGS) Committee	Chevy Chase
9–10		Executive Programs Committee	Post Oak
9–10:30		K12 Physics Teachers Lounge DigiKit Exploration	Woodway III
10–10:30		K12 Physics Teachers Lounge PTRA Info	Woodway III
10–1		SEES Volunteer Training	Westin Oaks – Consulate Room
10–5		Exhibit Hall Open (Sunday)	Woodway I & II
10–10:30		Morning Break in Exhibit Hall	Woodway I & II
10:15		Morning Raffle in Exhibit Hall – Echo Spot	Woodway I & II
10:30–11:30		K12 Physics Teachers Lounge DigiKit Analog to Digital	Woodway III
10:30–11:30		Spouse and Guest Gathering	Daily Grill Restaurant

10:30–12:30		Consciously Overcoming Unconscious Bias in the Workplace – Part I (Individual Strategies)	West Alabama
11:30–12:30	CW01	Expert TA: Learning Resources beyond Online Homework	Plaza I
11:30–12:30	CW02	Perimeter Institute: Evidence for Climate Chang	Chevy Chase
11:30–12:30	CW03	What's New from PASC0 Scientific?	Woodway III
11:30–12:30		K12 Physics Teachers Lounge DigiKit Photoelectric	Woodway III
12:30–1:30		<b>2018 Andrew Gemant Award</b> – David Kaplan (Particle Fever: A Temporary Bout of Insanity)	Galleria I
12:30–2		K-12 Luncheon	Monarch
1:30–2:30	CW04	Perimeter Institute: Wave Model Applications	Chevy Chase
1:30–2:30	CW05	The PASC0 Wireless Smart Cart – Game Changer for the Physics Lab	Woodway III
1:30–3:30	BA	Approaches to Recruiting Women in Physics	Plaza I
1:30–3:20	BB	Frontiers Session: Living and Working in the Space Beyond Earth	Plaza II
1:30–2:50	BC	Introducing Computation into Introductory Physics Classes	Bellaire
1:30–3:30	BD	K-12 Ideas from PTRA, PIRA, ALPHA	Galleria III
1:30–3:30	BE	PER in Latin America and at Hispanic-Serving Institutions in the U.S.	San Felipe
1:30–3:30	BF	Physics Outreach for Underserved Populations	Westchester
1:30–3:10	BG	Recruiting Physics Teachers: Research and Best Practices	Sage
1:30–3:30	BH	The New Advanced Laboratory	Tanglewood
1:30–3:20	BI	Physics Majors: High School to Doctorate	Post Oak
2–3		SPS Undergraduate Meet and Greet	Westin Oaks – Embassy Room
2:30–3:30		K12 Physics Teachers Lounge STEP UP 4 Women	Woodway III
3–4	CW06	PASC0 – Untangling Basic Circuits	Woodway III
3:30–4		Afternoon Break in Exhibit Hall	Woodway I & II
3:40		Afternoon Raffle in Exhibit Hall – Celestron Telescope	Woodway I & II
4–5:30		Diversity in Physics Committee	Westin Oaks – Consulate Room
4–5:30		Apparatus Committee	Monarch
4–5:30		International Physics Educ. Committee	Westin Oaks – Continental
4–5:30		Professional Concerns Committee	Westin Oaks – Embassy Room
4–5:30		Physics in Pre-High School Education Committee	Chevy Chase
4–5:30		Interests of Senior Physicists Committee	West Alabama
4–5:30		Physics in Undergraduate Education Committee	Galleria II
4–5:30		<b>2018 Andrew Gemant Award</b> – David Kaplan (Dark Matter: The Next Frontier)	University of Houston
5–6		K12 Physics Teachers Lounge Open	Woodway III
5:30–6:30	CA	Innovations in Teaching Analytical Mechanics	Plaza I
5:30–6:30	CB	Interactive Lecture Demonstrations: What's New?	Plaza II
5:30–6:30	CC	Physics at Hispanic Serving Institutions (HSIs): Challenges and Opportunities	Bellaire
5:30–7	CD	Science Cafe/Nerd Night: Scientists Engage the Public	San Felipe
5:30–6:30	CE	Teaching with Data: Multi-messenger Astronomy	Galleria III
5:30–7	CF	Uteach at 20 Years	Westchester
5:30–6:30	CG	PER: Student & Instructor Support & Professional Development	Sage
5:30–6:30	CH	Teacher Training/Enhancement	Tanglewood
5:30–6:10	CI	Pre High School	Post Oak
7–8:30		Laboratories Committee	West Alabama
7–8:30		History and Philosophy of Physics Committee	Monarch
7–8:30		Physics in High Schools Committee	Sage
7–8:30		Research in Physics Education Committee	Tanglewood
7–8:30		Graduate Education in Physics Committee	Plaza I
7–8:30		Science Education for the Public Committee	Chevy Chase
7–8:30		Physics in Two-Year Colleges Committee	Post Oak
7–8:30		Early Career Speed Networking	Westin Oaks – Consort Ballroom
8:30–10		Meeting of the Members	Galleria I
9–11:59		Game Night	Westin Oaks – The Roof

## Monday, January 14, 2019

6 a.m.–11 p.m.	Quiet Room	River Oaks	
6 a.m.–11 p.m.	Lactation Room	Focus	
7 a.m.–5 p.m.	<b>REGISTRATION</b>	Woodway Foyer	
7–8		Morning Mall Walk	meet in front of Daily Grill Restaurant
7:30–9		Membership and Benefits Committee	Galleria II
7:30–9		Investment Advisory Committee	TBD
7:30–9		PTRA Advisory Committee	Bellaire
7:30–9:30		Consciously Overcoming Unconscious Bias in the Workplace – Part II (Institutional Strategies)	West Alabama
8–9		K12 Physics Teachers Lounge Open	Woodway III
8–9:30	PST1	Poster Session I	Woodway I & II
9:30–10:30		<b>PLENARY:</b> Michelle Feynman (Growing Up Feynman)	Galleria I
10–4		Exhibit Hall Open	Woodway I & II
10:30–11		Exhibit Hall Morning Break	Woodway I & II
10:30–11		Book Signing, Michelle Feynman	AAPT Booth
10:45		Exhibit Hall Raffle – Sports Action Camera	Woodway I & II
11–12		Outreach – Effective Practices for Undergrads	Westin Oaks – Consulate
11–12	CW07	Introducing Pivot Interactives from Vernier	Woodway III
11–12	CW08	Perimeter Institute: What's New in Physics	Chevy Chase
11–12		K12 Physics Teachers Lounge Get the Facts Out	Woodway III
11–12:30	TOP01	Graduate Student Topical Discussion	Galleria II
11–12:20	DA	100 Years of Experimental Relativity	Plaza II
11–12:30	DB	30 Demos in 60 Minutes	Galleria III
11–12:20	DC	Drones and VR: Examples of Emerging Educational Technologies Across the World	Westchester
11–11:20	DD	My Favorite Demo that Works – How & Why?	Sage
11–12	DE	Ordering of Topics	Tanglewood
11–12:20	DF	PhysTEC in 50 States	Bellaire
11–12	DG	PER: Student Content Understanding, Problem-Solving and Reasoning	Plaza I
11–12	DH	Making Out-of-School STEM Welcoming Across Languages	Post Oak
11–12:30	DI	Goals and Assessment for Computational Work in Physics Classes	San Felipe

12–1		Implementing the Career Toolbox and Improving Department Health	Westin Oaks – Consort Ballroom I
12–1	CW09	Vernier Solutions for Physics and Chromebooks	Woodway III
12–1	CW10	Perimeter Institute: Visualizing Energy	Chevy Chase
12:30–2		Educational Technologies Committee	West Alabama
12:30–2		Contemporary Physics Committee	Tanglewood
12:30–2		Space Science and Astronomy Committee	Plaza I
12:30–2		Women in Physics Committee	San Felipe
12:30–2		Teacher Preparation Committee	Sage
12:30–2		PIRA Committee	Post Oak
12:30–2		Retired Physicists Luncheon	Daily Grill Restaurant
12:30–2		Early Career and First Timers Social	Peli Peli Restaurant
12:30–2		Multicultural Luncheon	Peli Peli Restaurant
1–2		K12 Physics Teachers Lounge DigiKits Terminal Velocity	Woodway III
2–3		K12 Physics Teachers Lounge DigiKits Nerve Science	Woodway III
2–3		Meetup with LGBTQ Community	Westin Oaks – The Roof
3–3:30		Exhibit Hall Afternoon Break	Woodway I & II
3:15		Exhibit Hall Raffle – Drone, with Camera	Woodway I & II
3–4		K12 Physics Teachers Lounge DigiKits	Woodway III
3–4		Great Book Give-away	Woodway I & II
3:30–5:30	EA	First Billion Years of a Solar System	Tanglewood
3:30–5:30	EB	Assessing the Effectiveness of Laboratory Curricula	Bellaire
3:30–5:30	EC	Assessment Practices in Introductory Courses for the Life Sciences	Westchester
3:30–5:30	ED	Astronomy Education Research	Plaza I
3:30–5:30	EE	Best Practices in Educational Technology	Plaza II
3:30–5:30	EF	John Hubisz: Celebrating 59 Years of AAPT Distinguished Service	San Felipe
3:30–5:30	EG	PTRA: A Holistic Approach to Physics Instruction: Integrating Common Core Math Standards, Common Core ELA and NGSS	Galleria III
3:30–5	EH	The Impact of Policy and/or Regulations on Access to Higher Education in STEM Fields	Sage
3:30–5:20	EI	Science and Society	Post Oak
4–5		K12 Physics Teachers Lounge Open	Woodway III
5:30–6:30		<b>PLENARY:</b> Kip Thorne (Nobel Prize 2017, LIGO and Gravitational Waves)	Galleria I
6:30–8		SPS Undergraduate Awards Reception	Monarch
6:30–8:30	FB	Gender Considerations in the Laboratory	Plaza I
6:30–8:30	FC	Hands-on Outreach	San Felipe
6:30–8:30	FD	Integration of Computation into the Curriculum on the Departmental Scale	Galleria III
6:30–8:30	FE	PER and Student Motivation: Beyond Single Course Content	Sage
6:30–8:30	FF	Results from the First Safe Space for People of Color Meeting in PERC	Westchester
6:30–8:30	FG	Space Science in Introductory Courses	Bellaire
6:30–8:10	FH	High School	Plaza II
6:30–8:10	FI	Introductory Labs/Apparatus	Post Oak
7–8:30		PERLOC	West Alabama
7–8:30		Awards Committee	Chevy Chase
8:30–10	PST2	Poster Session 2	Woodway I & II

## Tuesday, January 15, 2019

6 a.m.–11 p.m.	Quiet Room	River Oaks	
6 a.m.–11 p.m.	Lactation Room	Focus	
7–8		Morning Mall Walk	meet in front of Daily Grill Restaurant
7–8:30		Programs and Planning II	Chevy Chase
7:30–8:30		PERTG Town Hall Meeting	Galleria I
8 a.m.–3 p.m.	<b>REGISTRATION</b>	Woodway Foyer	
8:30–10	GA	Early Career Teacher Experiences – Voices from the Field	San Felipe
8:30–10	GB	Effective Departmental Self Study and External Evaluation	Westchester
8:30–10	GD	Physics Teacher Preparation in Different Countries throughout the World	Plaza I
8:30–9:30	GE	Success Stories of Female Physicists	Tanglewood
8:30–10	GF	Successful Online Astronomy Labs	Galleria III
8:30–9:40	GG	Introductory Courses	Sage
8:30–10:30	GI	The Wonderful World of AJP	Post Oak
9–12		SEES – Students Exploring Engineering and Science	Westin Oaks – Consort Ballroom
10–10:30		Morning Break on Your Own	
10:30–12:30		<b>AWARDS:</b> DSCs, Melba Newell Phillips Medal, Oersted Medal, AAPT Presidential Transfer, AIP Science Writing	Galleria I
12:30–2:20	HA	A Day at a School, K-12	Tanglewood
12:30–2:20	HB	Implementing Research-based Instructional Strategies	Post Oak
12:30–2:20	HC	Integrating Computation Into Laboratories at All Levels	Sage
12:30–2:30	HD	Professional Skills for Graduate Students	San Felipe
12:30–2	HE	The Living Physics Course: New Ideas, Old Tricks	Galleria III
12:30–2:30	HF	The Physics of Extreme Mineral Exploration	Westchester
12:30–2:10	HG	Upper Division and Graduate	Bellaire
12:30–1:20	HH	PER: Diversity, Equity & Inclusion	Plaza I
12:30–1:30	HI	PER: Assessment, Grading and Feedback	Plaza II
12:30–1:30		Panel: Communicating Science	West Alabama
2:30–3		Paper Sort Meeting for Provo	Chevy Chase
2:30–3:30		Nominating Committee II	West Alabama
2:30–4		Post Deadline Posters	Woodway I & II
3–4:40	IA	Post Deadline Abstracts I	Post Oak
3–4:30	IB	Post Deadline Abstracts II	Sage
3–5		Board of Directors III	Monarch

### PLEASE NOTE:

Most events will be held in the Westin Galleria Hotel – Some will be at the Westin Oaks Hotel. These events are in ORANGE!