

Tuesday, July 25, 2017

6-8	AAPT Fun Run/Walk (ticket needed)	Offsite
7 am-10 pm	Quiet Room	CC - Vestibule
7 am-4 pm	REGISTRATION	CC - 1st Floor Lobby
7-8:30	Two-Year College Breakfast (ticket needed)	CC - Ballroom E
7-8:30	PTRA Oversight Committee	Marr. Madison I
7:30-8:30	Review Board	CC - Breakout 1
7:30-8:30	Physics Bowl Advisory Committee	CC - Breakout 2
7:30-8:30	Executive Programs Committee	CC - Breakout 3
8-10:30	HS Teacher Lounge: Geo-Electric Field Science	Marr. Kentucky
8 am-5 pm	HS Physics Photo Contest Voting and Viewing	CC - Madison Lobby
8:30-10	DA Research on the Impacts of Learning Assistant	CC - Breakout 4
8:30-10	DB Going Public: How to Get Published	CC - Breakout 5
8:30-10	DC The Art and Science of Teaching	Marr. Cov. Ballroom II
8:30-10	DD Developing Successful Mentoring Relationships	CC - Breakout 6
8:30-9:40	DE Technologies	Marr. Cov. Ballroom III
8:30-9:10	DF Science and Religion	CC - Breakout 7
8:30-9:50	DG Introductory Courses	CC - Breakout 8
8:30-9:30	DH Upper Division/Graduate Courses	CC - Breakout 9
8:30-9:40	DI Introductory Labs/Apparatus	Marr. Cov. Ballroom I
8:30-10	DK Interactive Lecture Demonstrations: What's New?	CC - Breakout 10
8:30-9:40	DL PER: Modeling Student Engagement	CC - Ballroom D
10-4	Exhibit Hall Open (Break 10; 10:20 Raffle Amex)	CC - Event Center I
10-4	PIRA Resource Room/Apparatus Competition	CC - Event Center I
10-4	TYC Resource Room Open	CC - Event Center I
10	Meet the new <i>AJP</i> editor, AAPT Booth	CC - Event Center I
10:30-12	Awards: Robert A. Millikan Medal: Ken Heller; AAPT Fellowships	CC - Event Center II
12-1	CW09 Learning from Cengage with WebAssign	CC - Breakout 2
12-1	CW06 Perimeter Institute Workshop	CC - Breakout 1
12-12:50	CW07 Introducing Pivot Interactives from Vernier	CC - Breakout 3
12-1:20	Physics in Undergraduate Education Committee	CC - Breakout 4
12-1:20	Teacher Preparation Committee	CC - Breakout 5
12-1:20	PIRA Committee	CC - Breakout 6
12-1:20	Physics in Pre-High School Education Committee	CC - Breakout 7
1-1:50	CW13 Vernier Solutions for Physics and Chromebooks	CC - Breakout 3
1:30-2:30	CW12 Perimeter Institute: What's New in Physics?	CC - Breakout 2
1:30-3:30	EA Aspiring to Lead: Engaging K-12 Teachers	CC - Breakout 4
1:30-3:30	EB PER Reducing DFW Rates, Improving Retention	CC - Breakout 5
1:30-3:30	EC Innovative Models of Physics Teacher Preparation	CC - Breakout 6
1:30-3:30	ED Supporting Equity in Group Work, Collaboration	CC - Breakout 7
1:30-3:30	EE Improving Student Learning With Popular Media	CC - Breakout 8
1:30-3:30	EF The Use of IOLab for Intro. Laboratory Reform	CC - Ballroom D
1:30-3:30	EG Highlights of TYC New Faculty Experience	Marr. Cov. Ballroom I
1:30-3:30	EH Uses of Computation in Undergrad. Physics	CC - Breakout 9
1:30-3:20	EI High School	CC - Breakout 10
1:30-2:30	EJ Labs/Apparatus	Marr. Cov. Ballroom III
1:30-3:20	EK PER: Examining Content Understanding	Marr. Cov. Ballroom II
1:30-3	EL Citizen Science and International Collaboration	Marr. Madison
1:30-3:30	EM PER: Diverse Investigations	CC - Ballroom C
3:30-4	Exhibit Hall Afternoon Break (3:50, Kindle Raffle)	CC - Event Center I
4-6:30	Awards: Klopsteg Memorial Lecture Award: John C. Brown; Alpha Awards	CC - Event Center II
5-6	HS Teacher Lounge: Enhancing Perception of K-12 Teaching	Marr. Kentucky
5-6:30	Poster Session II	CC - Event Center I
6-8	HS Teacher Lounge: Aspiring to Lead	Marr. Kentucky
6:30-8	Night on the Ohio River on the River Queen Riverboat (ticket)	Offsite
8-9	Demo Show	CC - Event Center II
9:30-12	Pub Crawl (ticket needed)	Offsite

Wednesday, July 26, 2017

7 am-3 pm	Quiet Room	CC - Vestibule
7-8	Venture/Bauder Committee	Marr. - Riverview II
7-8	Governance Structure Committee	Marr. - Riverview I
7-8:30	Programs Committee II	CC - Ballroom E
8 am-3 pm	High School Photo Contest Winners	CC - Madison Lobby
8-9	Finance Committee	Marr. Riverview II
8 am-3 pm	REGISTRATION	CC - 1st Floor Lobby
8-10:30	High School Teacher Lounge: Digi Kits	Marr. Kentucky
8:30-10	FA Race and Gender Performance Gaps . . .	Marr. Cov. Ballroom I
8:30-10:20	FB Labs with Low-Cost Embedded Computers	CC - Breakout 4
8:30-10:30	FC History and Philosophy in Physics Courses	CC - Breakout 5
8:30-10:30	FD Multiple Career Paths in PER	Marr. Cov. Ballroom II
8:30-10:30	FE Making Change Through Science Policy	Marr. Cov. Ballroom III
8:30-10:30	FF Multi-Messenger Astronomy in the Age of GR	CC - Breakout 6
8:30-10:30	FG PIRA Session - 3D Printing in Labs and Demos	CC - Ballroom D
8:30-9:20	FH PER: Content Understanding and Reasoning III	CC - Breakout 7
8:30-9:50	FJ Teacher Training/Enhancement	CC - Breakout 8
8:30-10:30	FK Physics Education Research	CC - Ballroom C
8:30-10:30	FL PER: Diverse Investigations	CC - Breakout 10
8:30-9:30	FL Phys21	CC - Breakout 9
8:30-10:30	FM Research on Physics Teacher Preparation	CC - Breakout 3
9:30-10:30	STEP UP for Women	Marr. Kentucky
10:30-12	Plenary: Francis Slakey; DSC Awards	CC - Event Center II
12-1	Membership and Benefits Committee	Marr. Riverview I
12-1:30	Retired Physicists Luncheon (ticket needed)	Marr. 10 West Rest.
12-1:30	TOP05 PERTG Town Hall	CC - Event Center II
1-3	GA Creating Inclusive Diverse Classrooms	CC - Breakout 4
1-3	GB Make, Play, Learn	Marr. Cov. Ballroom I
1-3	GC Panel on Public Affairs - Teacher Recruitment	Marr. Cov. Ball. II
1-3	GD Professional Skills for Graduate Students	Marr. Cov. Ballroom III
1-1:30	GF Current Space/Astronomy/Physics News	CC - Breakout 5
1-3	GG Learning Outcomes, Assessment in IPLS Course	CC - Breakout 6
1-3	GH Upper Division Undergraduate	CC - Breakout 7
1-2:50	GI Effective Practices in Educational Technology	CC - Breakout 8
1:30-3	PERC PERC Bridging Session	CC - Event Center II
2-3	TOP01 Avenues for Publishing in Astronomy Education	CC - Breakout 9
3:30-5	Nominating Committee II	Marr. Riverview II
3:30-4:40	HA Post-deadline Abstracts	CC - Breakout 1
3:30-5	HB Post-Deadline Abstracts II	CC - Breakout 4
3:30-5	HC Post-Deadline Abstracts III	CC - Breakout 5
3:30-5	Post-Deadline Posters	CC - Madison Lobby
3:30-6	Board of Directors III	Marr. Riverview I
4-5	PERC First Timers Poster Session	CC - Event Center I
8-10	PERC Poster Reception (ticket needed)	CC - Event Center I

Download the meeting app by going to <https://crowd.cc/s/Rfdy>, or search the "Apple" or "Google Play" stores for AAPT, American Association of Physics Teachers, SM17, 2017 AAPT Summer Meeting.

Bus schedule Saturday and Sunday for workshops

Buses departing CC

- 7:15 a.m.
- 7:25 a.m.
- 7:35 a.m.
- 12:20 p.m.
- 12:30 p.m.
- 12:45 p.m.

Buses departing U. of Cincinnati

- 12:15 p.m.
- 12:45 p.m.
- 1:00 p.m.
- 5:15 p.m.
- 5:30 p.m.
- 5:45 p.m.

AAPT 2017 SUMMER MEETING

PHYSICS EDUCATION
JULY 22-26 Cincinnati, OH



Meeting at a Glance

Saturday, July 22, 2017

7-4	REGISTRATION	CC - 1st Floor Lobby
(WORKSHOPS ARE AT UNIVERSITY OF CINCINNATI)		
8-12	W02 Making High Speed Videos	340 & 342 Braun.
8-12	W03 Mathematical Modeling with Desmos	312 Braun.
8-12	W04 iMobile Physics and iPhysics Classroom	325 Braun.
8-12	W05 Make and Take Low Cost Spectrograph for Physics Labs	300 G-Phys.
8-12	W06 Modern Physics Labs on a Budget Using LEDs and Mixed Signal Processors	303 G-Phys.
8-12	W07 "Can We Have a Group Test?" Designing Collaborative, Active, Alternative Assessments for Physics Classes	348 Braun.
8-12	W08 Introductory Labs for Electricity and Magnetism	346 Braun.
8-5	W12 Physics Activities for the Life Sciences (PALS)	316 Braun.
8-5	W13 Learn Physics While Practicing Science: Intro. to ISLE	426 Braun.
8-5	W14 The Perplexed Physicists' Primer on Teaching Astronomy	201 Braun.
1-5	W17 Low-Cost Open-Source Laboratory Instruments	312 Braun.
1-5	W18 Physics of Toys	300 Braun.
1-5	W19 Computational Modeling with GlowScript and VPython	300 G-Phys.
1-5	W20 Examining the Relationships among Intuition, Reasoning, and Conceptual Understanding in Physics	340 & 342 Braun.
1-5	W21 An Example of Tutorials for Upper-division Physics Courses: Quantum Mechanics	346 & 348 Braun.
1-5	W22 PIRA Lecture Demonstrations I & II Condensed: Selections from the PIRA 200	301 Braun.
1-5	W23 An Introduction to Race, Ethnicity, Equity in Physics Ed.	324 Braun.
1-5	W24 Student Activities from the IceCube Neutrino Experiment	303 G-Phys.
1-2:30	Cincinnati Reds Stadium Tour (ticket needed)	Offsite
6-7:30	Nominating Committee I	Marr. Kentucky
6-9	Board of Directors	Marr. Riverview I
7-8	Effects of the Sun: Solar Planetarium Show (ticket)	Haile Planetarium

Sunday, July 23, 2017

7-4	REGISTRATION	CC - 1st Floor Lobby
7 am-10 pm	Quiet Room	CC - Vestibule
8 am-10 pm	HS Photo Contest Viewing and Voting	CC - Madison Lobby
8-10	Publications Committee	Marr. Riverview I
8-10:15	Meetings Committee	Marr. Riverview II
8-11	T01 Designing and Running Your Own Physics Camp	Marr. Cov. Ballroom I
8-12	W27 High Altitude Ballooning	340 Braun.
8-12	W28 Physics Invention Tasks: Developing Mathematical Creativity as a Scientific Practice	351 Braun.
8-12	W30 Fun and Engaging Labs	348 & 346 Braun.
8-12	W32 What Every Physics Teacher Should Know About Cognitive Research	316 Braun.
8-12	W33 Interdisciplinary Instruction in Biological Physics	303 & 304 G-Phys.
8-12	W34 Fun, Engaging, Labs and Demos in Electricity, Magnetism and Optics with Clickers, Video Analysis, and Computer-based Tools	350 Braun.
8-12	W35 Explore Assessment Data with PhysPort Data Explorer	300 G-Phys.
10:30-4	Board of Directors II	Marr. Riverview I
1-5	W37 Periscope: Learning in Best-Practices Physics Classrooms	426 Braun.
1-5	W38 Intermediate and Advanced Laboratories	339 Braun.
1-5	W39 Making Videos as Projects	324 Braun.
1-5	W40 Don't Lecture Me: Tutorial-based Curricula for Teaching AP Physics	351 Braun.
1-5	W42 Using Jupyter Notebook to Teach Phys. with Computa.	300 G-Phys.

1-5	W43 Developing the Next Generation of Physics Assessments	201 Braun.
1-5	W44 Integrating Computation into Undergrad. Physics	346 & 348 Braun.
1-5	W45 Demo Kit in a Box: Electrostatics	312 Braun.
1-5	W46 Strategies to Help all Women Succeed in Physics-Related Professions	316 Braun.
5:30-6:30	Programs Committee I	Marr. Cov. Ball I
5:30-8	Section Officers and Section Representatives	Marr. Cov. Ball II
6:30-8	Educational Technologies Committee	Marr. Riverview I
6:30-8	Science Education for the Public Committee	Marr. Cov. Ballroom III
6:30-8	Diversity in Physics Committee	Marr. Riverview II
6:30-8	Modern Physics Committee	Marr. Madison
6:30-8	Alpha Committee	Marr. Terrace III
6:30-8	Interests of Senior Physicists Committee	Marr. Terrace IV
7:30-9:30	REGISTRATION	CC - 1st Floor Lobby
8-10	Exhibit Hall Open / Welcome Reception	CC - Event Center I
8-10	PIRA Resource Room/Apparatus Competition	CC - Event Center I
8-10	TYC Resource Room	CC - Event Center I
8-10	SPS Undergraduate Research Poster Session	CC - Event Center I
10:15-11:30	Evening Cincinnati Observatory Tour (ticket needed)	Offsite

Monday, July 24, 2017

7 am-10 pm	Quiet Room	CC - Vestibule
7 am-5 pm	REGISTRATION	CC - 1st Floor Lobby
7-8:30	Apparatus Committee	CC - Breakout 1
7-8:30	Graduate Education in Physics Committee	CC - Breakout 2
7-8:20	International Physics Education Committee	CC - Breakout 6
7-8:30	Professional Concerns Committee	CC - Breakout 9
7-8:20	Space Science & Astronomy Committee	CC - Breakout 8
7-8:20	Women in Physics Committee	CC - Breakout 3
7-8:20	PERLOC	CC - Breakout 7
7-8:30	First Timers Gathering (ticket needed)	CC - Ballroom E
8-9:30	HS Teacher Lounge: Acoustical Science from the ASA	Marr. Kentucky
8 am-10 pm	HS Physics Photo Contest Voting and Viewing	CC - Madison Lobby
8:30-10	AA Cultural Perspectives on Educational Technology	Marr. Cov. Ball I
8:30-10	AB Neutrino Physics Investigations for Students	Marr. Cov. Ball II
8:30-10	AC Defining Units: Old and New	CC - Ballroom C
8:30-10	AD Optics Labs at All Levels: Rainbows to Raman	CC - Breakout 4
8:30-10	AE Frontiers in Astronomy	CC - Breakout 5
8:30-9:20	AF Science and Society	CC - Breakout 6
8:30-9:10	AG Physics Majors: High School to Doctorate	CC - Breakout 7
8:30-10	AH Innovations in Upper Division Physics Classes	Marr. Cov. Ballroom III
8:30-10	AI Engineering Education	CC - Breakout 8
8:30-10	AK PER: Exploring Problem Solving Approaches and Skills	CC - Ball. D
8:30-9:30	AL Topics in Diversity II	CC - Breakout 10
9-10	Spouse and Guest Gathering	Marr. Riverview I
9:30-10:30	HS Teacher Lounge: Physics Teaching and Social Justice	Marr. Kentucky
10-5	Exhibit Hall Open (Break 10 / Raffle 10:20 Sony headphones)	CC - Event Center I
10-5	PIRA Resource Room/Apparatus Competition	CC - Event Center I
10-5	TYC Resource Room Open	CC - Event Center I
10:30-11:30	Awards: Paul W. Zitzewitz Award for Excellence in K-12 Physics Teaching to Mark Schober and David Halliday and Robert Resnick Award for Excellence in Undergraduate Physics Teaching to Cindy Schwarz	CC - Event Center II
11:30-12:30	High School Teachers Luncheon (ticket needed)	CC - Ballroom E

11:30-1:30	Solar Fest	Marr. The Landing
12-1	CW01 Foster Learning, LLC Workshop	CC - Breakout 1
12-1	CW02 PASCO: Essential Physics Workshop	CC - Breakout 2
12-1	CW08 Expert TA Workshop	CC - Breakout 3
12-1:30	TOPO4 AIP Career Pathways Project	CC - Breakout 9
12-1:30	Awards Committee	Marr. Terrace IV
12-1:30	Meet-up for Members & Supporters of LGBTQ (ticket)	Marr. Riverview I
12-1:30	Early Career Professionals Speed Networking (ticket)	Marr. Madison
1:30-3	HS Teacher Lounge: Color Science	Marr. Kentucky
1:30-2:30	CW03 PASCO Smart Cart Workshop	CC - Breakout 2
1:30-2:30	CW11 Perimeter Institute - Everyday Einstein	CC - Breakout 1
1:30-3:30	BA Modeling Instruction at All Levels	CC - Breakout 6
1:30-3:30	BB Effective Practices for Integrating Computation in Undergraduate Physics	CC - Ballroom D
1:30-3:30	BC Coping Mechanisms for Physics Students from Underrepresented Groups	Marr. Cov. Ballroom I
1:30-3:30	BD Panel on First Year Teacher Concerns	Marr. Cov. Ballroom II
1:30-3:30	BE Climate Change	CC - Breakout 5
1:30-3:30	BF Preparing for the August 21st Solar Eclipse	CC - Breakout 4
1:30-3:30	BG The Physics of the NSF IUOE Program	CC - Breakout 7
1:30-3:30	BH Impact and Reflections on TYC Physics Workshop	CC - Breakout 8
1:30-3:20	BI PER: Evaluating Instructional Strategies	CC - Ballroom C
1:30-3:20	BJ PER: Examining Content Understanding	Marr. Cov. Ballroom III
1:30-3:30	BL K-12 PER	CC - Breakout 10
2-3	BK Topics in Diversity I	CC - Breakout 9
3-4	CW04 PASCO: Untangling Electric Circuits	CC - Breakout 2
3-4	CW10 Perimeter Institute Workshop	CC - Breakout 1
3-4	AAPT Official Tweet-up	Marr. Riverview I
3:30-4	Exhibit Hall Break (3:50 Raffle Amazon Dot)	CC - Event Center I
3:30	Meet the new AJP editor, AAPT Booth	CC - Event Center I
4-6	CA Electricity, Energy, and Particles: Squishy Circuits, Scribble Bots, and the Particle Zoo	Marr. Cov. Ballroom I
4-5	CB 30 Demos in 60 Minutes	Marr. Cov. Ballroom III
4-5:30	CC Introductory Labs/Apparatus	CC - Breakout 4
4-6	CD Lab Recommendations Focus Area 5	CC - Breakout 5
4-6	CE Developing and Using Next-Generation Simulations	CC - Breakout 6
4-5:50	CF Jupyter: VPython/GlowScript	CC - Breakout 7
4-6	CG New Developments in Intro. Physics for Life Sci.	Marr. Cov. Ballroom II
4-5:20	CH Inclusion and Equity	CC - Breakout 9
4-6	CI Introductory Courses	CC - Breakout 10
4-5:50	CJ PER: Student Reasoning	CC - Ballroom C
4-6	CK PER: Evaluating Instructional Strategies	CC - Ballroom D
4-5:40	CL Being Disabled in Physics	CC - Breakout 8
6-7:30	Laboratories Committee	CC - Breakout 1
6-7:30	History and Philosophy of Physics Committee	CC - Breakout 2
6-7:30	Research in Physics Education Committee	CC - Breakout 6
6-7:30	Physics in Two-Year Colleges Committee	CC - Breakout 3
6-7:30	Physics in High Schools Committee	CC - Breakout 9
6-7:30	SPS Undergraduate Awards Reception	CC - Ballroom E
6-7:30	Early Career and First Timers Social	Offsite - Smoke Justis
6-7:30	TOPO2 Solo PER Discussion	CC - Breakout 8
6-7:30	TOPO3 Graduate Student Topical Discussion	CC - Breakout 7
6-7:30	TOPO7 Improving Instruction Through Action Research	CC - Breakout 4
7:30-8:30	Plenary: Julianne M. Pollard-Larkin	CC - Event Center II
8:30-10	Poster Session 1	CC - Event Center I
8:30-10	High School Share-a-thon	CC - Ballroom D
9-12	Game Room Night	Marr. Riverview Ballroom