

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
2-3:30	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.

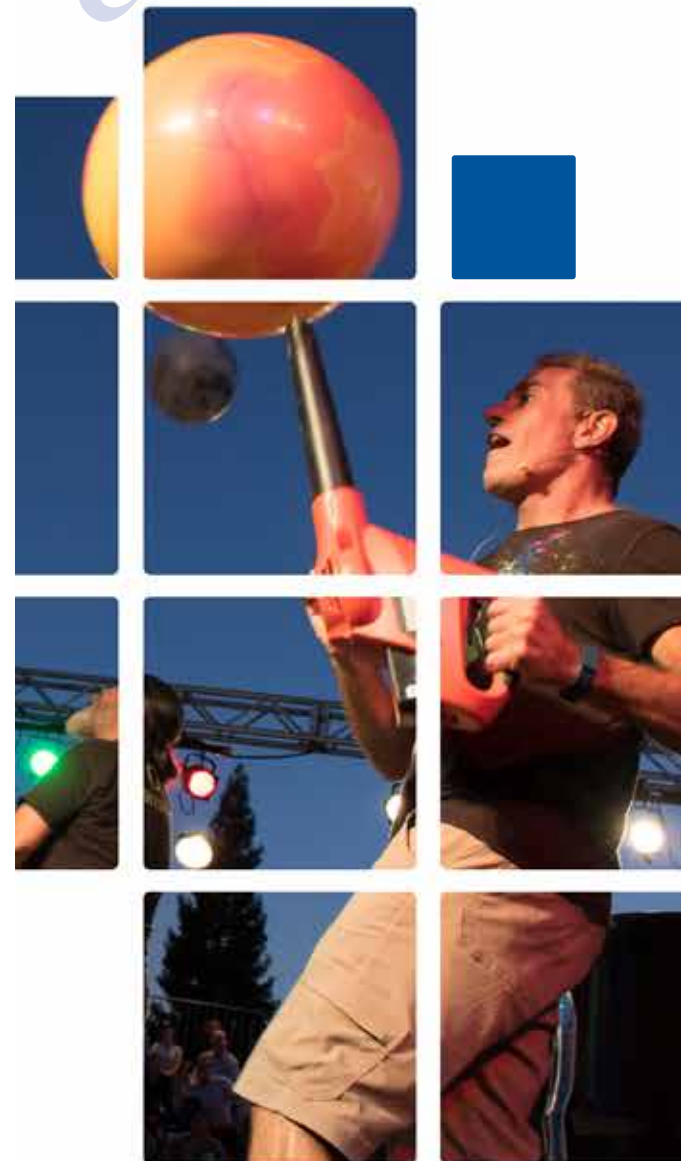
Bus schedule Saturday and Sunday for workshops

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.



Meeting at a Glance

7-4 REGISTRATION

W43 Developing the Next Generation of Physics Assessments 201 Braun.

W44 Integrating Computation into Undergrad. Physics 346 & 348 Braun.

W45 Demo kit in a Box: Electrostatics 312 Braun.

W46 Strategies to Help all Women Succeed in Physics- 316 Braun.

7:30-9:30 **REGISTRATION**

8-12 W02 Making High Speed Videos 340 & 342 Braun.

8-12 W03 Mathematical Modeling with Desmos 312 Braun.

8-12 W04 Mobile 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: 346 & 348 Braun.

Saturday, July 22, 2017

7-4 REGISTRATION

7 am-10 pm Quiet Room

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Monday, July 24, 2017

7 am-10 pm Quiet Room

7 am-5 pm **REGISTRATION**

7-8:30 AA Cultural Perspectives on Educational Technology

8:30-10 AB Neutrino Physics Investigations for Students

8:30-10 AC Defining Units: Old and New

8:30-10 AD Optics Labs at All Levels: Rainbows to Raman

8:30-10 AE Frontiers in Astronomy

8:30-10 AF Science and Society

8:30-10 AG Physics Majors: High School to Doctorate

8:30-10 AH Innovations in Upper Division Physics Classes

8:30-10 AI Engineering Education

8:30-9:30 AL Topics in Diversity II

8-9:30 pm HS Physics Photo Contest Voting and Viewing

8-9:30 pm HS Teacher Lounge: Acoustical Science from the ASA

9-10 Spouse and Guest Gathering

9:30-10:30 HS Teacher Lounge: Physics Teaching and Social Justice

10-5 Exhibit Hall Open (Break 10 / Raffle 10:20 Sony headphones)

10-5 PIRA Resource Room/Apparatus Competition

10:30-11:30 Awards: Paul W. Zitzewitz Award for Excellence in K-12

11:30-12:30 Robert Resnick Award for Excellence in Undergraduate Physics

Building Key: CC = N. Kentucky Convention Center

Braun.: Braunstein Bldg. G-Phys.: Geology-Physics Bldg. Marr.: Cincinnati Marriott at RiverCenter

W42 Using Jupyter Notebook to Teach Phys. with Computa. 300 G-Phys.

W43 Making Videos as Projects 324 Braun.

W38 Intermediate and Advanced Laboratories 339 Braun.

W37 Periscope: Learning in Best-Practices Physics Classrooms 426 Braun.

W35 Explore Assessment Data with PhysPort Data Explorer 300 G-Phys.

W34 Fun, Engaging, Labs and Demos in Electricity, Magnetism and Optics with Clickers, Video Analysis, and Computer-based Tools 350 Braun.

W33 Interdisciplinary Instruction in Biological Physics 303 & 304 G-Phys.

W32 What Every Physics Teacher Should Know About Cognitive Research 316 Braun.

W30 Fun and Engaging Labs 348 & 346 Braun.

W28 Physics Invention Tasks: Developing Mathematical Creativity as a Scientific Practice 351 Braun.

W27 High Altitude Ballooning 340 Braun.

T01 Designing and Running Your Own Physics Camp 340 Braun.

8-10:15 Meetings Committee Marr. Riverview II

8-11 Designing and Running Your Own Physics Camp Marr. 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.

10:30-4 Board of Directors II Marr. Riverview I

10-5 PIRA Resource Room/Apparatus Competition CC - Event Center I

10-5 TYC Resource Room Open CC - Event Center I

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10-5 TYC Resource Room Open CC - Event Center I

6-7:30 TOP03 Graduate Student Topical Discussion CC - Breakout 8

6-7:30 TOP07 Improving Instruction Through Action Research CC - Breakout 4

7:30-8:30 Penary: Julianne M. Pollard-Larkin CC - Event Center II

8:30-10 Poster Session 1 CC - Event Center I

8:30-10 High School Teachers Luncheon (ticket needed) CC - Ballroom E

9-12 Game Room Night Marr. Riverview Ballroom

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