

# Meeting Registration Form

Received by 5/31/17 Received by 6/22/17 Onsite 6/23-7/26

## How to Register

- Mail form to: AAPT Programs & Conferences  
 One Physics Ellipse, College Park, MD 20740
- Fax form to: 301-209-0847

### Please indicate your member society:

- GIREP
- NSBP
- NSHP
- AACT

Please provide member number: \_\_\_\_\_

First Name \_\_\_\_\_

Last Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State/Province \_\_\_\_\_

Country \_\_\_\_\_ Zip/Postal Code \_\_\_\_\_

Institution: \_\_\_\_\_

Email \_\_\_\_\_

Emergency Contact \_\_\_\_\_

Phone:  Home  Work (\_\_\_\_) \_\_\_\_\_

Fax  Home  Work (\_\_\_\_) \_\_\_\_\_

## Check applicable boxes

Type of school affiliation:

- High School  Two-Year College  Four-Year College  Other

Disabilities/ Special Needs \_\_\_\_\_

**If something comes up and you simply can't attend, all requests for cancellation must be made in writing by the following dates and the following fees will apply:**

Cancellations by May 31, 2017 Midnight EST = \$75

Cancellations from June 1, 2017 to June 22, 2017 = \$100

Cancellations June 23 – July 6, 2017 = \$125

No Refunds after July 6, 2017

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**Attendee emails will be shared with conference exhibitors.**

## Registration Fees (circle one)

|                      |                       |       |       |
|----------------------|-----------------------|-------|-------|
| Full meeting         | \$385                 | \$509 | \$708 |
| Under./Grad. student | \$45                  | \$55  | \$75  |
| 1 Day (day? _____)   | \$260                 | \$394 | \$540 |
| Workshop Only        | \$85 (non-refundable) |       |       |

Family/ Guest Registration:  \$40 (Spouse/guest)  \$30 Child (7-16 yr)  
 NAME(S): \_\_\_\_\_ 6 & under free

**Use Workshop Only below if attending Saturday or Sunday workshop without attending the Meeting**

Workshop Only (not attending meeting) \$85 plus fee \$ \_\_\_\_\_  
 (fill out form on next page; write in fee) \$ \_\_\_\_\_

## Commercial Workshops (free) (check one)

- CW01: Foster Learning, 7/24, 12-1 p.m.  CW02: PASCO, 7/24, 12-1 p.m.
- CW03: PASCO, 7/24, 1:30-2:30 p.m.  CW04: PASCO, 7/24, 3-4 p.m.
- CW06: Perimeter Institute, 7/25, 12-1 p.m.  CW07: Vernier, 7/25, 12-2 p.m.

## Special Events (optional)

- 1. Cincinnati Reds Stadium Tour # Persons \_\_\_\_ @ \$22 \$ \_\_\_\_\_  
 Saturday, July 22, 1:30 p.m.
- 2. First Timers Gathering # Persons \_\_\_\_ (free)  
 Monday, July 24, 7-8:30 a.m.
- 3. Spouse/Guest Gathering # Persons \_\_\_\_ (free)  
 Monday, July 24, 9-10 a.m.
- 4. Early Career Professionals Speed Networking Event # Persons \_\_\_\_ (free)  
 Monday, July 24, 12-1:30 p.m.
- 5. High School Physics Teachers Luncheon # Persons \_\_\_\_ @ \$40 \$ \_\_\_\_\_  
 Monday, July 24, 12-1:30 p.m.
- 6. Meet-up for Members and Supporters of LGBTQ Community  
 Monday, July 24, 12-1:30 p.m. # Persons \_\_\_\_ (free)
- 7. Game Room Night # Persons \_\_\_\_ (free)  
 Monday, July 24, 9-12 p.m.
- 8. Cincinnati Observatory Visit and Tour  
 TBA # Persons \_\_\_\_
- 9. AAPT Fun Run/Walk  
 Tuesday, July 25, 6-8 a.m. # Persons \_\_\_\_ @ \$30 \$ \_\_\_\_\_
- 10. Two-Year College Breakfast # Persons \_\_\_\_ @ \$35 \$ \_\_\_\_\_  
 Tuesday, July 25, 7-8:30 a.m.
- 11. Retired Physicists Luncheon # Persons \_\_\_\_ @ \$23 \$ \_\_\_\_\_  
 Tuesday, July 25, 12-1:30 p.m.
- 12. A Night on the Banks of the Ohio River # Persons \_\_\_\_ @ \$47 \$ \_\_\_\_\_  
 Tuesday, July 25, 6:30-8 p.m.
- 13. Monday Raffles: Headphones 10:20 a.m. # \_\_\_\_ @ \$2 ea. \$ \_\_\_\_\_  
 Echo Dot 3:50 p.m. # \_\_\_\_ @ \$2 ea. \$ \_\_\_\_\_
- 14. Tuesday Raffles: \$100 Gift card 10:20 a.m. # \_\_\_\_ @ \$2 ea. \$ \_\_\_\_\_  
 Kindle Fire 3:50 p.m. # \_\_\_\_ @ \$2 ea. \$ \_\_\_\_\_

Registration Fee \$ \_\_\_\_\_  
 Workshop Fee(s) \$ \_\_\_\_\_  
 Special Events Fee(s) \$ \_\_\_\_\_  
 \$10 Administration Fee \$ 10

**TOTAL:** \$ \_\_\_\_\_

**Make checks payable to AAPT; No credit cards accepted**  
**Purchase Order No.** \_\_\_\_\_

Registration for workshops is first-come, first-served, so register early to secure a place in the workshop of your choice. Please use a checkmark for your initial choices, then indicate subsequent choices (in case first choice is unavailable) numerically. No form received after July 6, 2017 will be accepted in the Executive Office for processing. Workshop abstracts can be found online at [www.aapt.org/Conferences/sm2017/workshops.cfm](http://www.aapt.org/Conferences/sm2017/workshops.cfm).

**NAME** \_\_\_\_\_

(Use checkmarks for 1st choices, then rank subsequent choices numerically . . . 1, 2, 3, etc.)

All workshops will be held at the University of Cincinnati

| Workshops, Saturday July 22 |   | Time                 | Fees |          |       |     |
|-----------------------------|---|----------------------|------|----------|-------|-----|
|                             |   |                      | Mem. | Non-Mem. |       |     |
| W01                         | Designing Circuits Activities for Middle School Students.....   | 8:00 a.m.–12:00 p.m. | W01: | \$70     | \$95  | ___ |
| W02                         | Making High Speed Videos.....   | 8:00 a.m.–12:00 p.m. | W02: | \$60     | \$85  | ___ |
| W03                         | Mathematical Modeling with Desmos .....   | 8:00 a.m.–12:00 p.m. | W03: | \$60     | \$85  | ___ |
| W04                         | iMobile Physics and iPhysics Classroom.....   | 8:00 a.m.–12:00 p.m. | W04: | \$60     | \$85  | ___ |
| W05                         | Make and Take Low Cost Spectrograph for Physics Labs .....  | 8:00 a.m.–12:00 p.m. | W05: | \$85     | \$110 | ___ |
| W06                         | Modern Physics Labs on a Budget Using LEDs and Mixed Signal Processors.....                                   | 8:00 a.m.–12:00 p.m. | W06: | \$85     | \$110 | ___ |
| W07                         | “Can We Have a Group Test?” Designing Collaborative, Active, Alternative Assessments for Physics Classes..... | 8:00 a.m.–12:00 p.m. | W07: | \$60     | \$85  | ___ |
| W08                         | Introductory Labs for Electricity and Magnetism.....  | 8:00 a.m.–12:00 p.m. | W08: | \$72     | \$97  | ___ |
| W11                         | Activity-based Physics in the Advanced High School Classroom .....  | 8:00 a.m.–5:00 p.m.  | W11: | \$75     | \$120 | ___ |
| W12                         | Physics Activities for the Life Sciences (PALS).....  | 8:00 a.m.–5:00 p.m.  | W12: | \$85     | \$110 | ___ |
| W13                         | Learn Physics While Practicing Science: Introduction to ISLE.....   | 8:00 a.m.–5:00 p.m.  | W13: | \$95     | \$120 | ___ |
| W14                         | The Perplexed Physicists’ Primer on Teaching Astronomy .....  | 8:00 a.m.–5:00 p.m.  | W14: | \$85     | \$110 | ___ |
| W17                         | Low-Cost Open-Source Laboratory Instruments .....   | 1:00 p.m.–5:00 p.m.  | W17: | \$60     | \$85  | ___ |
| W18                         | Physics of Toys.....  | 1:00 p.m.–5:00 p.m.  | W18: | \$61     | \$86  | ___ |
| W19                         | Computational Modeling with GlowScript and VPython.....   | 1:00 p.m.–5:00 p.m.  | W19: | \$60     | \$85  | ___ |
| W20                         | Examining the Relationships among Intuition, Reasoning, and Conceptual Understanding in Physics .....         | 1:00 p.m.–5:00 p.m.  | W20: | \$60     | \$85  | ___ |
| W21                         | An Example of Tutorials for Upper-division Physics Courses: Quantum Mechanics .....                           | 1:00 p.m.–5:00 p.m.  | W21: | \$65     | \$90  | ___ |
| W22                         | PIRA Lecture Demonstrations I & II Condensed: Selections from the PIRA 200.....                               | 1:00 p.m.–5:00 p.m.  | W22: | \$95     | \$120 | ___ |
| W23                         | An Introduction to Race, Ethnicity, and Equity in Physics Education .....                                     | 1:00 p.m.–5:00 p.m.  | W23: | \$65     | \$90  | ___ |
| W24                         | Student Activities from the IceCube Neutrino Experiment .....   | 1:00 p.m.–5:00 p.m.  | W24: | \$60     | \$85  | ___ |

| Workshops, Sunday, July 23 |  | Time                 | Fees |          |       |     |
|----------------------------|--|----------------------|------|----------|-------|-----|
|                            |  |                      | Mem. | Non-Mem. |       |     |
| W27                        | High Altitude Ballooning .....   | 8:00 a.m.–12:00 p.m. | W27: | \$75     | \$100 | ___ |
| W28                        | Physics Invention Tasks: Developing Mathematical Creativity as a Scientific Practice.....  | 8:00 a.m.–12:00 p.m. | W28: | \$60     | \$85  | ___ |
| W30                        | Fun and Engaging Labs.....   | 8:00 a.m.–12:00 p.m. | W30: | \$60     | \$85  | ___ |
| W31                        | Using Minecraft to Teach Physics.....  | 8:00 a.m.–12:00 p.m. | W31: | \$70     | \$95  | ___ |
| W32                        | What Every Physics Teacher Should Know About Cognitive Research.....   | 8:00 a.m.–12:00 p.m. | W32: | \$60     | \$85  | ___ |
| W33                        | Workshop on Intermediate-Level, Interdisciplinary Instruction in Biological Physics.....   | 8:00 a.m.–12:00 p.m. | W33: | \$60     | \$85  | ___ |
| W34                        | Fun, Engaging, and Effective Labs and Demos in Electricity, Magnetism and Optics with Clickers, Video Analysis, and Computer-based Tools ..... | 8:00 a.m.–12:00 p.m. | W34: | \$75     | \$100 | ___ |
| W35                        | Explore Your Assessment Data with the PhysPort Data Explorer.....  | 8:00 a.m.–12:00 p.m. | W35: | \$60     | \$85  | ___ |
| W37                        | Periscope: Looking Into Learning in Best-Practices Physics Classrooms .....  | 1:00 p.m.–5:00 p.m.  | W37: | \$60     | \$85  | ___ |
| W38                        | Intermediate and Advanced Laboratories.....  | 1:00 p.m.–5:00 p.m.  | W38: | \$85     | \$110 | ___ |
| W39                        | Making Videos as Projects .....  | 1:00 p.m.–5:00 p.m.  | W39: | \$60     | \$85  | ___ |
| W40                        | Don’t Lecture Me: Tutorial-based Curricula for Teaching Advanced Placement Physics.....  | 1:00 p.m.–5:00 p.m.  | W40: | \$65     | \$90  | ___ |
| W41                        | Making Waves with NASA: Culturally Responsive Instructional Approaches for Teaching Physical Science Concepts in Middle and High School .....  | 1:00 p.m.–5:00 p.m.  | W41: | \$65     | \$90  | ___ |
| W42                        | Using Jupyter Notebook to Teach Physics with Computation.....  | 1:00 p.m.–5:00 p.m.  | W42: | \$65     | \$90  | ___ |
| W43                        | Developing the Next Generation of Physics Assessments.....   | 1:00 p.m.–5:00 p.m.  | W43: | \$60     | \$85  | ___ |
| W44                        | Integrating Computation into Undergraduate Physics .....   | 1:00 p.m.–5:00 p.m.  | W44: | \$20     | \$45  | ___ |
| W45                        | Demo Kit in a Box: Electrostatics .....  | 1:00 p.m.–5:00 p.m.  | W45: | \$85     | \$110 | ___ |
| W46                        | Strategies to Help all Women Succeed in Physics Related Professions .....  | 1:00 p.m.–5:00 p.m.  | W46: | \$65     | \$85  | ___ |
| T01                        | Designing and Running Your Own Physics Camp .....  | 8:00 a.m.–11:00 a.m. | T01: | \$60     | \$85  | ___ |
| T02                        | Where Were You?.....   | 8:00 a.m.–10:00 a.m. | T02: | \$75     | \$100 | ___ |
| T03                        | Improving Instruction through Action Research.....   | 8:00 a.m.–10:00 a.m. | T03: | \$60     | \$85  | ___ |