



# Meeting Registration Form

## How to Register

- Register online at [www.aapt.org](http://www.aapt.org)
- Fax form to 301-209-0845
- Mail form to: AAPT Programs & Conferences  
One Physics Ellipse, College Park, MD 20740

Member Member No.: \_\_\_\_\_  Nonmember

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

- Attending for the first time  Becoming an AAPT member  
 Renewing my membership

Type of school affiliation:

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

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

**Please print clearly.**

\_\_\_\_ Visa \_\_\_\_ MasterCard \_\_\_\_ Discover \_\_\_\_ Am. Express

Account Number \_\_\_\_\_

Expiration Date \_\_\_\_\_

Security Code \_\_\_\_\_

Name on Card \_\_\_\_\_

Signature: \_\_\_\_\_

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 June 6, 2018 Midnight EST = \$75

Cancellations from June 7 – June 27, 2018 = \$100

Cancellations from June 28 – July 11, 2018 = \$125

No Refunds after July 11, 2018

**Photo Release:** AAPT and its legal representatives and assigns, retain the right and permission to publish, without charge, photographs taken during this event. These photographs may be used in publications, including electronic publications, or in audio-visual presentations, promotional literature, advertising, or in other similar ways.

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

## Registration Fees (circle one)

| Registration Fees                    | Early Bird by 5/30/18 | Advanced by 6/26/18 | Onsite 6/27-8/1 |
|--------------------------------------|-----------------------|---------------------|-----------------|
| AAPT Member – Full meeting           | \$395                 | \$519               | \$718           |
| AAPT Member – Retired/Emer./Lifetime | \$300                 | \$460               | \$632           |
| Non-member – Full meeting            | \$610                 | \$734               | \$934           |
| Under./Grad. student AAPT members    | \$45                  | \$75                | \$75            |
| AAPT Member – 1 Day (day? _____)     | \$260                 | \$404               | \$550           |
| Non-member – 1 Day (day? _____)      | \$485                 | \$619               | \$765           |
| High School Students                 | Complimentary         |                     |                 |
| Workshop Only                        | \$85                  |                     |                 |

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

**Members and Non-members, 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)

## Special Events (optional)

- 1. Undergraduate Meet-up # Persons \_\_\_\_\_ (free)  
Saturday, July 28, 5:30-7 p.m.
- 2. First Timers Gathering # Persons \_\_\_\_\_ (free)  
Monday, July 30, 7-8:30 a.m.
- 3. Spouse/Guest Gathering # Persons \_\_\_\_\_ (free)  
Monday, July 30, 9-10 a.m.
- 4. Early Career Professionals Speed Networking Event # Persons \_\_\_\_\_ (free)  
Monday, July 30, 12-1:30 p.m.
- 5. K-12 Teachers Luncheon # Persons \_\_\_\_\_ @ \$40 \$ \_\_\_\_\_  
Monday, July 30, 12-1:30 p.m.
- 6. Meet-up for Members and Supporters of LGBTQ Community # Persons \_\_\_\_\_ (free)  
Monday, July 30, 12-1:30 p.m.
- 7. Game Room Night # Persons \_\_\_\_\_ (free)  
Monday, July 30, 9-12 p.m.
- 8. AAPT Fun Run/Walk # Persons \_\_\_\_\_ @ \$30 \$ \_\_\_\_\_  
Tuesday, July 31, 6-8 a.m.
- 9. Monday AM Raffle # \_\_\_\_\_ @ \$2 ea. \$ \_\_\_\_\_
- 10. Monday PM Raffle # \_\_\_\_\_ @ \$2 ea. \$ \_\_\_\_\_
- 11. Tuesday AM Raffle # \_\_\_\_\_ @ \$2 ea. \$ \_\_\_\_\_
- 12. Tuesday PM Raffle # \_\_\_\_\_ @ \$2 ea. \$ \_\_\_\_\_
- 13. PER Conference & Reception # Persons \_\_\_\_\_ @ \$155 \$ \_\_\_\_\_  
Wednesday, Thursday, Aug. 1-2 Students: \$100
- 14. PER Poster Session & Reception Only # Persons \_\_\_\_\_ @ \$30 \$ \_\_\_\_\_  
Wednesday, Aug. 1, 8-10 p.m.

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

**Make checks payable to AAPT.**

**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 18, 2018 will be accepted in the Executive Office for processing. Workshop abstracts can be found online at [www.aapt.org/Conferences/sm2018/workshops.cfm](http://www.aapt.org/Conferences/sm2018/workshops.cfm).

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

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

All workshops will be held at George Washington University — Tutorials at Marriott Renaissance

| Workshops, Saturday, July 28 |  | Time                 | Fees       |          |       |
|------------------------------|--|----------------------|------------|----------|-------|
|                              |  |                      | Mem.       | Non-Mem. |       |
| W01                          | Developing and Implementing NGSS Three-Dimensional High School Physics Lessons   | 8:00 a.m.–12:00 p.m. | W01: \$60  | \$85     | _____ |
| W02                          | Night Sky Network  | 8:00 a.m.–12:00 p.m. | W02: \$110 | \$135    | _____ |
| W03                          | Preparing for Policy and Advocacy  | 8:00 a.m.–12:00 p.m. | W03: \$60  | \$85     | _____ |
| W04                          | PIRA Lecture Demonstrations I & II Condensed: Selections from the PIRA 200   | 8:00 a.m.–12:00 p.m. | W04: \$95  | \$120    | _____ |
| W05                          | Research-based Approaches to Infusing Argumentation in Undergraduate Physics   | 8:00 a.m.–12:00 p.m. | W05: \$65  | \$90     | _____ |
| W10                          | “Can We Have a Group Test?” Designing Collaborative, Active, Alternative Assessments for Physics Classes                                 | 8:00 a.m.–5:00 p.m.  | W10: \$85  | \$110    | _____ |
| W11                          | Using Arduino for High Altitude Ballooning   | 8:00 a.m.–5:00 p.m.  | W11: \$110 | \$135    | _____ |
| 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: \$88  | \$113    | _____ |
| W14                          | Creating Mobile Physics Apps with EJS  | 8:00 a.m.–5:00 p.m.  | W14: \$85  | \$110    | _____ |
| W17                          | Integrated STEM Education: Infusing Engineering Design Practices in STEM Learning  | 1:00 p.m.–5:00 p.m.  | W17: \$80  | \$105    | _____ |
| W18                          | Introductory Labs for Thermal Physics  | 1:00 p.m.–5:00 p.m.  | W18: \$72  | \$97     | _____ |
| W19                          | Network Analysis in PER  | 1:00 p.m.–5:00 p.m.  | W19: \$60  | \$85     | _____ |
| W20                          | Modern Physics Labs on a Budget Using LEDs and Mixed Signal Processors   | 1:00 p.m.–5:00 p.m.  | W20: \$80  | \$105    | _____ |
| W21                          | LIGO and Interferometers   | 1:00 p.m.–5:00 p.m.  | W21: \$80  | \$105    | _____ |
| W22                          | Arduinos and Underwater ROVs   | 1:00 p.m.–5:00 p.m.  | W22: \$180 | \$205    | _____ |
| Workshops, Sunday, July 29   |  | Time                 | Fees       |          |       |
| T01                          | PTRA: Cartoon Physics  | 8:00 a.m.–10:00 a.m. | T01: \$60  | \$85     | _____ |
| T02                          | Teaching a Blended Course with Existing Resources on edX.org   | 8:00 a.m.–10:00 a.m. | T02: \$60  | \$85     | _____ |
| W24                          | PTRA: Robotics   | 8:00 a.m.–12:00 p.m. | W24: \$85  | \$110    | _____ |
| W25                          | Coding Integration in High School STEM Courses   | 8:00 a.m.–12:00 p.m. | W25: \$30  | \$55     | _____ |
| W26                          | Designing and Assessing Informal Physics Programs  | 8:00 a.m.–12:00 p.m. | W26: \$60  | \$85     | _____ |
| W27                          | Integrating Modern Physics into the High School Physics Curriculum   | 8:00 a.m.–12:00 p.m. | W27: \$60  | \$85     | _____ |
| W28                          | PIRA: Procuring Apparatus for Outreach Shows   | 8:00 a.m.–12:00 p.m. | W28: \$90  | \$115    | _____ |
| W29                          | 3D Solid Modeling Workshop   | 8:00 a.m.–12:00 p.m. | W29: \$61  | \$86     | _____ |
| W30                          | Using Social Psychological Interventions to Improve Learning of all Students   | 8:00 a.m.–12:00 p.m. | W30: \$60  | \$85     | _____ |
| W31                          | Physics Resources for K-8 from NASA  | 8:00 a.m.–12:00 p.m. | W31: \$65  | \$90     | _____ |
| W32                          | Fun and Engaging Labs  | 8:00 a.m.–12:00 p.m. | W32: \$60  | \$85     | _____ |
| W33                          | PICUP: Integrating Computation into Undergraduate Physics  | 8:00 a.m.–12:00 p.m. | W33: \$80  | \$105    | _____ |
| 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                          | STEP UP for Women  | 8:00 a.m.–12:00 p.m. | W35: \$60  | \$85     | _____ |
| W36                          | Preparing Your Materials for Inclusion in the Living Physics Portal  | 8:00 a.m.–12:00 p.m. | W36: \$60  | \$85     | _____ |
| W38                          | Fostering Inclusivity in Physics: Resources, Strategies, and Interventions   | 1:00 p.m.–5:00 p.m.  | W38: \$60  | \$85     | _____ |
| W39                          | Interdisciplinary Instruction in Biological Physics  | 1:00 p.m.–5:00 p.m.  | W39: \$60  | \$85     | _____ |
| W40                          | Tying Activity Based Physics Bits & Pieces to NGSS   | 1:00 p.m.–5:00 p.m.  | W40: \$80  | \$105    | _____ |
| W41                          | Intermediate and Advanced Labs   | 1:00 p.m.–5:00 p.m.  | W41: \$85  | \$110    | _____ |
| W42                          | Getting Students to Think Critically in Intro Labs   | 1:00 p.m.–5:00 p.m.  | W42: \$62  | \$87     | _____ |
| W43                          | Effective Practices for Final Projects in Undergraduate Physics Lab Courses  | 1:00 p.m.–5:00 p.m.  | W43: \$60  | \$85     | _____ |
| W44                          | Examining the Relationships among Intuition, Reasoning, and Conceptual Understanding in Physics  | 1:00 p.m.–5:00 p.m.  | W44: \$60  | \$85     | _____ |
| W45                          | An Introduction to Race, Ethnicity, and Equity in Physics Education  | 1:00 p.m.–5:00 p.m.  | W45: \$65  | \$90     | _____ |
| W46                          | Ready to Go Public with Your Writing? Developing Writing Ideas for Publication   | 1:00 p.m.–5:00 p.m.  | W46: \$75  | \$100    | _____ |
| W47                          | Physics and Toys II: Energy, Momentum, Electricity, and Magnetism  | 1:00 p.m.–5:00 p.m.  | W47: \$65  | \$90     | _____ |
| W48                          | Improving the Pedagogical Content Knowledge of Teaching Assistants and Instructors   | 1:00 p.m.–5:00 p.m.  | W48: \$60  | \$85     | _____ |
| W49                          | Demo Kit in a Box: Optics  | 1:00 p.m.–5:00 p.m.  | W49: \$85  | \$110    | _____ |
| W50                          | Using CPEP Resources in the Classroom  | 1:00 p.m.–5:00 p.m.  | W50: \$60  | \$85     | _____ |
| W51                          | Field Trip to the Air and Space Museum   | 1:00 p.m.–5:00 p.m.  | W51: FREE  |          | _____ |