



# 2013 AAPT Summer Meeting Registration Form

July 13–17, 2013, Portland, OR

| Received by<br>5/2 | Received by<br>6/6 | Onsite<br>6/7–7/17 |
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## How to Register

- Register online at [www.aapt.org](http://www.aapt.org)
- 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 Collge     Other

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

To qualify as “preregistered” status, forms must be postmarked by **July 2, 2013**, and received in the Executive Office with full payment. Forms postmarked after this date will NOT be processed, and attendees must register onsite. Deadline for registration cancellation is **July 2** (a \$75 cancellation processing fee will be assessed until May 2. The fee will be \$100 from May 3–June 6, and \$125 from June 7–July 2. For students, the cancellation fee is 50% of registration.) No refunds will be given after **July 2, 2013**.

\*A \$10 administrative fee is charged for mailed in registration forms.

By registering for this meeting, I grant AAPT permission to use photographs and videos taken of me in group settings during the meeting for future published materials.

## Registration Fees (circle one)

|                                      |                       |       |       |
|--------------------------------------|-----------------------|-------|-------|
| AAPT Member – Full meeting           | \$360                 | \$484 | \$683 |
| AAPT Member – Retired/Emer./Lifetime | \$265                 | \$425 | \$597 |
| Non-member – Full meeting            | \$575                 | \$699 | \$899 |
| Under./Grad. student AAPT members    | \$40                  | \$50  | \$66  |
| AAPT Member – 1 Day (day? _____)     | \$235                 | \$369 | \$515 |
| Non-member – 1 Day (day? _____)      | \$450                 | \$584 | \$730 |
| High School Students                 | Complimentary         |       |       |
| Workshop Only                        | \$75 (non-refundable) |       |       |

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) \$75 plus fee \$ \_\_\_\_\_  
(fill out form on next page; write in fee) \$ \_\_\_\_\_

## Commercial Workshops (free) (check one)

- CW01: Perimeter Inst., 7/15, 9–10 a.m.  CW02: WebAssign, 7/15, 9–10 a.m.
- CW03: Perimeter Inst., 7/15, 11:30 a.m.–1 p.m.  CW04: PASCO, 7/15, 12–1 p.m.
- CW05: Pearson, 7/15, 12–1 p.m.  CW06: Perimeter Inst., 7/16, 9:30–10:30 a.m.
- CW07: Physics2000, 7/16, 9:30–10:30 a.m.  CW08: Pearson, 7/16, 9:30–10:30 a.m.
- CW09: Perimeter Inst., 7/16, 12:30–2 p.m.  CW10: Pearson, 7/16, 1–2 p.m.
- CW11: PASCO, 7/16, 1–2 p.m.

## Special Events (optional)

- 1. TYC Leadership Institute # Persons \_\_\_\_\_ @ \$50 ea. \$ \_\_\_\_\_  
Friday, July 12, 8–9:30 a.m. at Vernier Software
- 2. TYC Tandem Meeting # Persons \_\_\_\_\_ @ \$25 ea. \$ \_\_\_\_\_  
Saturday, July 13, 8:30 a.m.–4:45 p.m. at Vernier Software
- 3. Columbia Gorge Tour # Persons \_\_\_\_\_ @ \$47 ea. \$ \_\_\_\_\_  
Saturday, July 13, 10 a.m.–5 p.m.
- 4. Development of Effective Assessment to Inform Instruction  
Saturday, July 13, 8:00 a.m.–12:00 p.m. (free)
- 5. Melba Newell Phillips Medal # Persons \_\_\_\_\_ @ \$180 ea. \$ \_\_\_\_\_  
Fundraiser and Dinner Saturday, July 13, 6:30–8:30 p.m. Table of 8: \$1,000
- 6. First Timers’ Gathering # Persons \_\_\_\_\_ (free)  
Monday, July 15, 7–8 a.m.
- 7. Spouses/Guest Gathering/Tour # Persons \_\_\_\_\_ @ \$29 ea. \$ \_\_\_\_\_  
Monday, July 15, 10–11:30 a.m.
- 8. H.S. Physics Teachers’ Day Luncheon # Persons \_\_\_\_\_ @ \$30 ea. \$ \_\_\_\_\_  
Monday, July 15, 12–1:30 p.m.
- 9. International Attendee Luncheon # Persons \_\_\_\_\_ (free)  
Monday, July 15, 11:30–1:30 p.m.
- 10. Early Career Professionals Speed Networking Event # Persons \_\_\_\_\_ (free)  
Monday, July 15, 12–1:30 p.m.
- 11. Retired Physicists’ Luncheon # Persons \_\_\_\_\_ @ \$45 \_\_\_\_\_ \$ \_\_\_\_\_  
Monday, July 15, 12–1:30 p.m.
- 12. Summer Picnic \$30 (Adult) # \_\_\_\_\_ \$15 (Child) # \_\_\_\_\_ \$ \_\_\_\_\_  
Tuesday, July 16, 6:30–8 p.m.
- 13. Biannual AAPT Fun Run/Walk # Persons \_\_\_\_\_ @ \$20 ea. \$ \_\_\_\_\_  
Tuesday, July 16, 6:30–7:30 a.m.
- 14. Portland Walking Tour # Persons \_\_\_\_\_ @ \$15 ea. \$ \_\_\_\_\_  
Wednesday, July 17, 4:30–6:30 p.m.
- 15. PER Conference & Banquet # Persons \_\_\_\_\_ @ \$180 ea. \$ \_\_\_\_\_  
July 17–18  
Banquet Only, July 17, 6:00–8:00 p.m. # Persons \_\_\_\_\_ @ \$55 ea. \$ \_\_\_\_\_
- 16. Monday Raffles: Kindle Drawing 10:15 a.m. # \_\_\_\_\_ @ \$1 ea. \$ \_\_\_\_\_  
Gift Card Drawing 3:45 p.m. # \_\_\_\_\_ @ \$1 ea. \$ \_\_\_\_\_
- 17. Tuesday Raffles: Gift Card Drawing 10:15 a.m. # \_\_\_\_\_ @ \$1 ea. \$ \_\_\_\_\_  
Kindle Drawing 3:45 p.m. # \_\_\_\_\_ @ \$1 ea. \$ \_\_\_\_\_
- 18. World’s Tallest Barometer # Persons \_\_\_\_\_ (free)  
Mon: 10–10:30, 3:30–4; Tues: 10–10:30, 2–2:30; Wed: 10–10:30, 2–2:30

Registration Fee \$ \_\_\_\_\_  
Workshop Fee(s) \$ \_\_\_\_\_  
Special Events Fee(s) \$ \_\_\_\_\_  
Administrative Fee \$ \_\_\_\_\_

**TOTAL:** \$ 10

**Make checks payable to AAPT; No credit cards accepted**

**Purchase Order No.** \_\_\_\_\_



# 2013 AAPT Summer Meeting – Workshop Registration Form

July 13–17, 2013, Portland, OR

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 postmarked after July 2, 2013, will be accepted in the Executive Office for processing. Workshop abstracts can be found online at [www.aapt.org/Conferences/sm2012/workshops.cfm](http://www.aapt.org/Conferences/sm2012/workshops.cfm).  
 (Note: There will be an additional \$10 charge for registering for workshops onsite.)

NAME \_\_\_\_\_

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

(All workshops will be held at Portland State University)

## Workshops, Saturday, July 13

|   | Time                 | Fees       |          |
|---|----------------------|------------|----------|
|   |                      | Mem.       | Non-Mem. |
| W01 Learn Physics While Practicing Science: Introduction to ISLE.....                   | 8:00 a.m.–5:00 p.m.  | W01: \$85  | \$110    |
| W02 Thrift Store Physics: From Yesterday’s Cast-offs to Tomorrow’s Innovations.....     | 8:00 a.m.–5:00 p.m.  | W02: \$80  | \$105    |
| W03 Real LHC Data for the Classroom.....  | 8:00 a.m.–5:00 p.m.  | W03: \$80  | \$105    |
| W04 AP Physics 1 and 2.....   | 8:00 a.m.–5:00 p.m.  | W04: \$90  | \$115    |
| W05 FPGAs in the Digital Lab.....   | 8:00 a.m.–5:00 p.m.  | W05: \$100 | \$125    |
| W06 Tablets in the Physics Classroom.....   | 8:00 a.m.–12:00 p.m. | W06: \$68  | \$93     |
| W07 Simple Experiments for Learning the Strategies that Mirror Scientific Practice..... | 8:00 a.m.–12:00 p.m. | W07: \$63  | \$88     |
| W08 LivePhoto Physics: Video-based Motion Analysis for Homework and Classroom.....      | 8:00 a.m.–12:00 p.m. | W08: \$65  | \$90     |
| W09 Interviewing Physicists to Preserve Oral History.....                               | 8:00 a.m.–12:00 p.m. | W09: \$65  | \$90     |
| W10 The Pluto Debate: A Role-Playing Game.....  | 8:00 a.m.–12:00 p.m. | W10: \$65  | \$90     |
| W11 Using Invention to Promote Mathematical Thinking.....                               | 8:00 a.m.–12:00 p.m. | W11: \$60  | \$85     |
| W12 Physics of Energy.....  | 8:00 a.m.–5:00 p.m.  | W12: \$130 | \$155    |
| W13 Laboratories and Apparatus that (Can) Appear at Many Levels.....                    | 8:00 a.m.–12:00 p.m. | W13: \$80  | \$105    |
| W14 Arduino Applications in the Lab and Classroom.....                                  | 1:00 p.m.–5:00 p.m.  | W14: \$80  | \$105    |
| W15 Introductory Labs.....  | 1:00 p.m.–5:00 p.m.  | W15: \$70  | \$95     |
| W16 Introduction to Interactive Laboratory Experience (ILE) – A Hands-On Approach.....  | 1:00 p.m.–5:00 p.m.  | W16: \$85  | \$110    |
| W17 Closing the Gender Gap in Physics Learning Using Wise Schooling.....                | 1:00 p.m.–5:00 p.m.  | W17: \$60  | \$85     |
| W18 Physics and Toys I: Force, Motion, Light, and Sound.....                            | 1:00 p.m.–5:00 p.m.  | W18: \$65  | \$90     |
| W19 Standards-based Grading.....  | 1:00 p.m.–5:00 p.m.  | W19: \$60  | \$85     |
| W20 Career Pathways Opportunities.....  | 1:00 p.m.–5:00 p.m.  | W20: \$60  | \$85     |
| W21 Designing Courses with Moodle.....  | 1:00 p.m.–5:00 p.m.  | W21: \$60  | \$85     |
| W22 University Modeling Instruction.....  | 1:00 p.m.–5:00 p.m.  | W22: \$110 | \$135    |

## Workshops, Sunday, July 14

|   | Time                 | Fees       |          |
|---|----------------------|------------|----------|
|   |                      | Mem.       | Non-Mem. |
| W23 <del>CANCELLED</del> Introduction to PRISMS and How It Can be Used to Address the NGSS..... | 8:00 a.m.–5:00 p.m.  | W23: \$95  | \$120    |
| W24 Teaching Physics for Life Science and Pre-Health Students: Lab Activities.....              | 8:00 a.m.–5:00 p.m.  | W24: \$95  | \$120    |
| W25 Arduino Micro-controllers and Underwater ROVs.....  | 8:00 a.m.–5:00 p.m.  | W25: \$150 | \$175    |
| W26 PIRA Lecture Demonstrations I.....  | 8:00 a.m.–12:00 p.m. | W26: \$95  | \$120    |
| W27 Measuring of Learning in the Astronomy Classroom.....                                       | 1:00 p.m.–5:00 p.m.  | W27: \$70  | \$95     |
| W28 Research-based Tools for Teaching Quantum Mechanics.....                                    | 8:00 a.m.–12:00 p.m. | W28: \$60  | \$85     |
| W29 Green Labs and Activities.....  | 8:00 a.m.–12:00 p.m. | W29: \$65  | \$90     |
| W30 Getting Started with eBooks.....  | 8:00 a.m.–12:00 p.m. | W30: \$62  | \$87     |
| W31 Activities and Apparatus for Teaching About Climate and Climate Change.....                 | 8:00 a.m.–12:00 p.m. | W31: \$60  | \$85     |
| W32 Ways to Teach Sound and Music.....  | 8:00 a.m.–12:00 p.m. | W32: \$60  | \$85     |
| W33 Major League Physics – Using Baseball to Teach Mechanics.....                               | 8:00 a.m.–12:00 p.m. | W33: \$70  | \$95     |
| W34 Heliophysics.....   | 8:00 a.m.–12:00 p.m. | W34: \$35  | \$60     |
| W35 Activity-based Physics in the Advanced Physics High School Classroom.....                   | 8:00 a.m.–12:00 p.m. | W35: \$65  | \$90     |
| W36 Advanced Lab Workshop.....  | 1:00 p.m.–5:00 p.m.  | W36: \$85  | \$110    |
| W37 Strategies to Help Women Succeed in Physics Related Professions.....                        | 1:00 p.m.–5:00 p.m.  | W37: \$60  | \$85     |
| W38 LEAP: Learner-Centered Environment for Algebra-based Physics.....                           | 1:00 p.m.–5:00 p.m.  | W38: \$60  | \$85     |
| W39 Energy Theater.....   | 1:00 p.m.–5:00 p.m.  | W39: \$60  | \$85     |
| W40 New RTP and ILD Tools and Curricula: Video Analysis, Clickers, and E&M Labs.....            | 1:00 p.m.–5:00 p.m.  | W40: \$75  | \$100    |
| W41 Interactive Engagement in the Upper Division: Methods and Materials from CU.....            | 1:00 p.m.–5:00 p.m.  | W41: \$70  | \$95     |
| W42 Skepticism in the Classroom.....  | 1:00 p.m.–5:00 p.m.  | W42: \$60  | \$85     |
| W43 Physics TIPERs and Ranking Tasks.....   | 1:00 p.m.–5:00 p.m.  | W43: \$70  | \$95     |
| W44 Modeling Applied to Problem Solving with Associated Free Online Course.....                 | 1:00 p.m.–5:00 p.m.  | W44: \$60  | \$85     |
| W45 PIRA Lecture Demonstrations II.....   | 1:00 p.m.–5:00 p.m.  | W45: \$95  | \$120    |
| W46 Exoplanets.....   | 1:00 p.m.–5:00 p.m.  | W46: \$70  | \$95     |
| W47 Physics and Astronomy by Design.....  | 8:00 a.m.–5:00 p.m.  | W47: \$108 | \$133    |

Mail completed form to: AAPT Programs and Conferences, One Physics Ellipse, College Park, MD 20740-3845

Or fax to: 301-209-0845