

Co-Organizer(s)

Steve Lindaas

Make your own circuit boards! This workshop will offer hands-on experience in the physical process o...

[Read more](#)
W14: Ben Franklin is my Lab Partner

| <u>Date/Time</u> | <u>Organizer</u> | <u>Cost</u> | <u>Seats</u> |
|-----------------------------------|------------------|------------------------------------|--------------------------|
| Sat, Jan 4 1:00 p.m.-5:00 p.m. | Bob Morse | Members: \$72 Non-members: \$97 | Max: 18 Available: 14 |

Benjamin Franklin's experiments and observations on electricity established not only his reputation ...

[Read more](#)
W15: Implementation: Physics for Life and Health Sciences

| <u>Date/Time</u> | <u>Organizer</u> | <u>Cost</u> | <u>Seats</u> |
|-----------------------------------|--|------------------------------------|--------------------------|
| Sat, Jan 4 1:00 p.m.-5:00 p.m. | Nancy Beverly | Members: \$65 Non-members: \$90 | Max: 24 Available: 24 |
| | <u>Co-Organizer(s)</u> Nancy Donaldson | | |

Building on the many efforts to reform the Introductory Physics for Life Science (IPLS) majors, inst...

[Read more](#)
W16: Distance and Remote Labs

| <u>Date/Time</u> | <u>Organizer</u> | <u>Cost</u> | <u>Seats</u> |
|-----------------------------------|------------------|------------------------------------|--------------------------|
| Sat, Jan 4 1:00 p.m.-5:00 p.m. | Jacob Millspaw | Members: \$60 Non-members: \$85 | Max: 18 Available: 18 |

Distance education is on the rise. This includes courses delivered through live video feed to remot...

[Read more](#)
W17: GPS and Relativity

| <u>Date/Time</u> | <u>Organizer</u> | <u>Cost</u> | <u>Seats</u> |
|-----------------------------------|------------------|--------------------------------------|--------------------------|
| Sat, Jan 4 1:00 p.m.-5:00 p.m. | Elaine Gwinn | Members: \$110 Non-members: \$135 | Max: 30 Available: 30 |

Experience a workshop developed by the Perimeter Institute that will help your students understand a...

[Read more](#)
W18: Activity-Based Physics in the Physics High School Classroom

| <u>Date/Time</u> | <u>Organizer</u> | <u>Cost</u> | <u>Seats</u> |
|------------------------------------|---|------------------------------------|--------------------------|
| Sun, Jan 5 8:00 a.m.-12:00 p.m. | Maxine Willis | Members: \$68 Non-members: \$93 | Max: 24 Available: 24 |
| | <u>Co-Organizer(s)</u> Priscilla Laws, David Sokoloff, Ron Thornton | | |

This hands-on workshop is designed for teachers in advanced physics classes such as AP, Intematio...

[Read more](#)
W19: A Kaleidoscope of Great Online Tools for Teaching Physics

| <u>Date/Time</u> | <u>Organizer</u> | <u>Cost</u> | <u>Seats</u> |
|------------------------------------|------------------|------------------------------------|--------------------------|
| Sun, Jan 5 8:00 a.m.-12:00 p.m. | Cathy Ezrailson | Members: \$62 Non-members: \$87 | Max: 25 Available: 23 |

Educators have more opportunities than ever to begin teaching in today's "smart environments" throug...

[Read more](#)
W20: Using Small Remote Radio Telescopes

| <u>Date/Time</u> | <u>Organizer</u> | <u>Cost</u> | <u>Seats</u> |
|------------------|------------------|---------------|--------------|
| Sun, Jan 5 | Joe Heafner | Members: \$60 | Max: 26 |

Workshops
W16 & W24
\$130.

8:00 a.m.-12:00 p.m. **Co-Organizer(s)** Non-members: \$85 Available: 25
Don Smith, Joe Heafner

This workshop will demonstrate, and allow, participants to operate a remotely controlled radio teles...

[Read more](#)

W21: In Home Low-cost Labs

| <u>Date/Time</u> | <u>Organizer</u> | <u>Cost</u> | <u>Seats</u> |
|------------------------------------|------------------|-------------------------------------|--------------------------|
| Sun, Jan 5 8:00 a.m.-12:00 p.m. | Alex Burr | Members: \$75 Non-members: \$100 | Max: 30 Available: 26 |

A physics course without experiments is not a physics course. However many general physics instructo...

[Read more](#)

W22: Using Invention to Promote Mathematical Thinking

| <u>Date/Time</u> | <u>Organizer</u> | <u>Cost</u> | <u>Seats</u> |
|------------------------------------|--|------------------------------------|--------------------------|
| Sun, Jan 5 8:00 a.m.-12:00 p.m. | Andrew Boudreaux | Members: \$62 Non-members: \$87 | Max: 24 Available: 22 |
| | Co-Organizer(s) Stephen E. Kanim, Suzanne White Brahmia | | |

Students often struggle to make sense of mathematical representations of physics concepts. Inventio...

[Read more](#)

W23: Activities for Engaging Girls in Physical Science

| <u>Date/Time</u> | <u>Organizer</u> | <u>Cost</u> | <u>Seats</u> |
|------------------------------------|--|------------------------------------|--------------------------|
| Sun, Jan 5 8:00 a.m.-12:00 p.m. | Peggy Norris | Members: \$60 Non-members: \$85 | Max: 30 Available: 28 |
| | Co-Organizer(s) Patricia Sievert | | |

AIP statistics show that the number of females majoring in physics and engineering in college is sti...

[Read more](#)

W24: iPhone and iPad App Development

| <u>Date/Time</u> | <u>Organizer</u> | <u>Cost</u> | <u>Seats</u> |
|------------------------------------|------------------|------------------------------------|--------------------------|
| Sun, Jan 5 8:00 a.m.-12:00 p.m. | Andrew Duffy | Members: \$70 Non-members: \$95 | Max: 16 Available: 15 |

This workshop is a basic introduction to creating apps for the iPhone, the iPod Touch, and the iPad....

[Read more](#)

W25: Laboratories for Measuring Fundamental Constants

| <u>Date/Time</u> | <u>Organizer</u> | <u>Cost</u> | <u>Seats</u> |
|------------------------------------|------------------|------------------------------------|--------------------------|
| Sun, Jan 5 8:00 a.m.-12:00 p.m. | Jim Nelson | Members: \$60 Non-members: \$85 | Max: 24 Available: 24 |

During this workshop participants will determine experimentally a few constants fundament to physics...

[Read more](#)

W26: New RTP and ILD Tools and Curricula: Video Analysis, Clickers and E&M Labs

| <u>Date/Time</u> | <u>Organizer</u> | <u>Cost</u> | <u>Seats</u> |
|------------------------------------|--|-------------------------------------|--------------------------|
| Sun, Jan 5 8:00 a.m.-12:00 p.m. | David Sokoloff | Members: \$75 Non-members: \$100 | Max: 24 Available: 22 |
| | Co-Organizer(s) Ronald Thornton, Priscilla Laws | | |

RealTime Physics (RTP) and Interactive Lecture Demonstrations (ILDs) have been available for over 15...

[Read more](#)