

American Association of Physics Teachers -Central Pennsylvania Section  
Announce the Spring 2009 PTRA workshop

## Moving Physics Education Research into the Classroom

This workshop will be a sharing of methods and ideas for physics or physical science teachers of all experience levels. There has been and continues to be investigations into how students learn and particularly into how students learn Physics. This PTRA workshop will share some of the findings of this Physics Education Research as well as how to incorporate these findings into your classroom. Different methods and best practices will be demonstrated and discussed. Topics discussed will be: order for teaching Newton's Laws, using displacement and velocity graphs to solve uniformly accelerated motion problems, cooperative learning, discovery experiments, physics practicums, and an introduction to video analysis (taking and analyzing movies).

Physics is much more than a body of knowledge. It embodies habits of thought, philosophical attitudes, broad concepts, and basic skills that can be developed slowly all year and can last a lifetime. Please bring to the workshop a "best" practice that you have found to be effective that you would be willing to share with the other participants. These exchanges of ideas are valuable to all of us as we practice the art of teaching physics.

Date: Friday, March 27, 2009

Time: 8:30 A.M. to 3:00 P.M. (total of six hours)

Place: Penn State Mont Alto in conjunction with the Spring Meeting of the section

Cost: \$60 Please make check payable to: **AAPT/CPS**.

Questions about the workshop can be directed to Dave McCachren ([kmccachren@comcast.net](mailto:kmccachren@comcast.net)) please include PTRA in the subject line.

Register by sending check and registration to:

**Michael Doncheski**  
**Penn State Mont Alto**  
**1 Campus Dr.**  
**Mont Alto, PA 17237**

**Or email [mad10@psu.edu](mailto:mad10@psu.edu) with the information and PAY by check at the workshop.**

Name:

School:

Address:

e-mail:

## **Directions to Penn State Mont Alto**

### **From the North or South:**

- Take I-81 to exit 20, Scotland/Rt. 997.
- At the end of the ramp, turn left onto Rt. 997 S.
- Follow Rt. 997 for approximately 5 miles to the traffic light at Rt. 30.
- Make a right onto Rt. 30 W. You will see another traffic light about 100 yards ahead, turn left back onto Rt. 997 S.
- Follow Rt. 997 approx 5 miles into the town of Mont Alto.
- Turn left onto Rt. 233/Park St.
- Follow Park St. approx 1 mile; you will see signs for Penn State Mont Alto – turn left, cross over the bridge onto Campus Dr.
- Park in the large parking lot on your right.

### **From the East (Gettysburg/York/Lancaster):**

- Take Rt. 30 W through Gettysburg and over the mountain into Franklin County.
- As you near the intersection with Rt. 997, you will see two traffic lights about 100 yards apart; turn left at the second light onto Rt. 997 S.
- Follow Rt. 997 approx 5 miles into the town of Mont Alto.
- Turn left onto Rt. 233/Park St.
- Follow Park St. approx 1 mile; you will see signs for Penn State Mont Alto – turn left, cross over the bridge onto Campus Dr.
- Park in the large parking lot on your right.

### **From the West (Chambersburg/Mercersburg/McConnellsburg):**

- Take Rt. 30 E through Chambersburg and Fayetteville.
- You will come to a traffic light with a Sunoco gas station (right hand side) and a Rite Aid pharmacy (left hand side); this is the intersection with Mont Alto Rd.
- Turn right onto Mont Alto Rd.; follow Mont Alto Rd. approx 5 miles to the town of Mont Alto.
- As you near the intersection with Rt. 997 (second stop sign on Mont Alto Rd.), bear to the left (the intersection has right turn lane and a left turn/straight lane).
- Proceed straight across Rt. 997 and follow Park St./Rt. 233 approx 1 mile; you will see signs for Penn State Mont Alto – turn left, cross over the bridge onto Campus Dr.
- Park in the large parking lot on your right.
- If you miss the turn onto Mont Alto Rd., continue on Rt. 30 E for approx 1 mile and turn right on Rt. 997 S. Follow directions above from Rt. 30 at Rt. 997 to campus.

If are not near I-81 or Rt. 30 and you would like better directions from your location, please contact Mike Doncheski (717-749-6246 or [mad10@psu.edu](mailto:mad10@psu.edu)) directly.

The Workshop will be held in the Physics Lab, room 311 in the Science and Technology building (311 Sci/Tech). It will take less than 5 minutes to walk from the parking lot to the Physics Lab; see enclosed Penn State Mont Alto Campus Map for directions from the parking lot to 311 Sci/Tech. Breakfast and lunch will be available at the Mill Café on campus, also indicated on the map. The Café generally has a good selection of both hot and cold foods at a reasonable price.