

2010 Western New York Physics Olympics

It is time for the Western New York Physics Teachers Alliance Physics Olympics for middle and high school students! This year will be our sixth annual event and will be held on Saturday, November 20 in the Science Building at Buffalo State College.

Our Physics Olympics events involve problem solving, creativity, quick thinking, teamwork and some luck. We run this event with volunteer teachers and we keep it low intensity and friendly. Students should form teams of 2-5 students. Each team will complete three different Physics Olympics events, rotating from one event to another. Here is an approximate schedule for the day:

8:30-8:50	Registration, Foyer of the Science Building.
8:50-9:45	Event 1
9:55-10:50	Event 2
11:00-11:55	Event 3
12:00-12:30	Pizza lunch
12:30-1:15	Demonstration show
1:15-1:30	Awards

The events do not require any preparation ahead of time, but it is a good idea to have your students aware of what physics Olympics events are like (especially the timing & working quickly). If you have never done Physics Olympics events with your students, it is a great way to add some fun and friendly competition to your classroom. Examples of events from other campuses can be found with a quick web search. Samples of the events we have used in the past years can be found at <http://physicsed.buffalostate.edu/WNYPTA/meetings/> Check the 2006-09 November meetings for archive events and pictures from the past years. We will announce one event ahead of time so you can have your students practice. The other two events will not be known ahead of time, but I can give some clues:

- Event 1: Craft Stick Crane. This will be the announced event. More details of this event will be sent in an e-mail after our Oct 23 meeting posted on the WNYPTA website after we refine the rules at our meeting this Saturday. Watch <http://physicsed.buffalostate.edu/WNYPTA/meetings/2010-11/PhysicsOlympics2010/> for details.
- Event 2: Some form of raw egg event. This year we will be tossing an egg, hopefully hitting a target. Always fun and exciting!
- Event 3: This will be some form of knowledge/measurement/estimation event. The students should be familiar with standard metric measurements.

Middle school and high school teams are invited to participate. The MS & HS scores are tracked and calculated separately. All students will receive a T-shirt and certificate

commemorating their participation in the Physics Olympics. There are small prizes for the winning teams.

Because we are limited in space, each school is limited to three teams (up to 12 students). Most teachers do not have to turn away students, but if you find that you have many students interested, we suggest that you have your own local event and invite the winning teams to Buffalo State. If you have only one or two students who want to participate, we can combine them with other singles to make a team. Many teachers have students find their own transportation, but some have arranged for school transport. We suggest an arrival time of 8:00 and a departure time of 1:30. Direction to Buffalo State and campus maps can be found at <http://www.buffalostate.edu/directions.xml> Use parking lots R and S-1.

Registration: To register please email the following information to Dave Henry at henryd@buffalostate.edu by November 5, 2010

1. School Name
2. Grade level (high school or middle school)
3. Number of students you expect will participate. We do not need their names at this time, we will officially register the teams on the morning of the event.
4. Number of adults/teachers who are attending and willing to help out with running the events.
5. Please download the photo release form from <http://physicsed/WNYPTA/meetings/2010-11/PhysicsOlympics2010/> , copy for your participating students, and have them bring **completed forms** on the day of the event.