

PWISTA PRESENTS

Teaching Physics to The New Generation

Presented by

Howard Meyers, Veteran Physics Teacher, 30 years of Physics Teaching Experience

Howard Meyers has been selected teacher-of-the-year at Ossining HS three times during his teaching career and was one of five finalists in the IBM Education Fellows Award Program. Howard was awarded a United States Fulbright Teacher Exchange and taught a year in England. He is a PTE (Pasco Technology Educator) for the PASCO Scientific Equipment company.

During this one-week workshop participants will be actively involved in preparing lessons for the following school year. All topics from the new state syllabus will be covered. Each day will be divided into 5 distinct sessions.

- I. Demonstrations – The instructor will share his favorite demonstrations that are guaranteed to generate interest and enthusiasm in all students. At the end of the week, all experienced teachers will be asked to share one demonstration that they use and have found to be most successful.
- II. The Web – Interesting web sites will be explored and shared among the participants. The teachers will learn how to use the Internet to find and use Physics applets in the classroom. All teachers will compile a list of tested simulations and interactive labs, which can be used free on the Internet.
- III. Labs – Each afternoon will be devoted to lab activities. Participants will perform labs using Jell-O and two by fours on the low tech end of the spectrum and a full range of PASCO equipment at the nearly state of the art end. The Ossining HS physics classroom has 12 computers each with a computer interface and a set of sensors. The labs are designed to have students use real life experiences and science inquiry skills to solve open-ended questions. Teachers will write up one lab activity and share it with the class by the end of the week.
- IV. TI-83 in the physics class – Using a graphing calculator is more than a luxury, it's a necessity. The class will investigate how best to use a TI-83 in the classroom and laboratory to better understand the physics while making the math easier for your students.
- V. Teaching strategies and tips – This part of the daily ritual will include but not be limited to videos, homework, projects, worksheets, tests, PowerPoint presentations, objectives, dry erase boards, ordering equipment and supplies, magic, and cartoons.

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