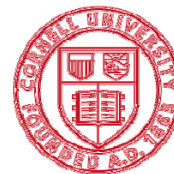


CIPT Fall 2009 Workshop



"Using Oscilloscopes in the High School Physics Classroom"

Cornell University
Saturday October 3, 2009

Schedule

8:30 - 9:00	Registration and Continental Breakfast
9:00 - 9:10	Welcome – Dr. Julie Nucci
9:10 - 10:25	Lecture – All about Oscilloscopes
10:35 -12:00	Lab Tours – To Be Announced
12:00 – 1:00	Lunch
1:00 – 2:20	Lab Activity
2:30 – 3:50	Lab Activity
4:00 – 4:30	Closing and Evaluation
4:30 – 5:00	Coffee and Conversation (optional)

Lab Activity I – Introduction to the Oscilloscope

An oscilloscope provides an instant graph of how the voltage of a signal varies as a function of time or another signal, and allows for easy comparison of separate signals. This lab will be an introduction to the basic operation of a “scope.”

Lab Activity II – Measuring the Speed of Light

The speed of light is accurately measured in this lab. Students will develop familiarity with some basic optical and electronics components including a photodiode, Fresnel lens, laser, beam splitter, and an oscilloscope.

The CIPT purchased 10 digital Tektronix oscilloscopes for the Lending Library. Teachers may borrow them for use in their classroom after attending this workshop. The funds for this hardware were provided by the NYS Foundation for Science, Technology, and Innovation (NYSTAR).

