



Long Island Physics Teachers Association

LIPTA 2017 Fall Conference

8:30 – 9:00 Registration and Breakfast -

9:00 – 9:15 Welcome

9:15 – 10:15 Featured Presenter – Greg Guido - Digital Data Acquisition and Analysis in the Physics Classroom

Participants will have a chance to try out various probes and sensors (motion, voltage, force, sound) from Vernier as well as using LoggerPro software to analyze the data as they go from station to station. Each station is geared toward a lab or activity that has been done with Regents or AP/IB physics classes. Handouts with lab instructions as well as a link to electronic copies will be provided.

10:15-10:45 Break – Browse our Equipment Giveaway

Thanks to the generosity of Greg Guido, Northport High School is revamping its Physics Rooms and has offered to donate its excess equipment to LIPTA members. Take a few minutes to see what goodies might tickle your fancy!

10:45-11:45 An Introduction to Using Arduinos – Also Greg Guido!

If you've heard of Arduinos but don't really know what they are or know what they are but haven't had a chance to test them out, then this is the workshop for you. Arduino is an open-source platform used for building electronics projects such as making lights blink, playing music or controlling experimental hardware. Arduino consists of both a physical programmable circuit board (often referred to as a microcontroller) and a piece of software, or IDE (Integrated Development Environment) that runs on your computer, used to write and upload computer code to the physical board via a USB cable. Whether you want some ideas for getting NGSS-ready or a fun low-stress activity for your students after AP/IB exams, you'll get a chance to try these kits out for yourself. Come and learn to use a breadboard and hack computer code!

11:45-12:00 Equipment Giveaway

During this part of the workshop we will be distributing the equipment giveaway!

Gregory Guido earned a B.A. in Physics ('86) from Cornell University and an M.A.T. in Mathematics from SUNY at Stony Brook ('92). He has been teaching physics and math for 30 years, first at St. Dominic HS and presently at Northport HS, where he has taught Conceptual, Regents, Honors, IB and AP Physics. For the past 14 years he has taught Physics HL for the IB Diploma Program at Northport.

Earn 3 hours Professional Development!

IMPORTANT! - Preregister at www.lipta.org

October 28, 2017

Northport High School

154 Laurel Hill Road
Northport, NY 11768

Registration fees

For members in good standing

Early registration (through October 24th) - \$10

Regular Registration - \$15

For non-members (includes one year membership)

Early Registration (through October 24th) - \$25

Regular registration - \$30