

**October 24, 2008 - FL-AAPT/PTRA Workshop**  
**Analysis of Laboratory Data For Physical Science & Physics Teachers**

The Florida Section of the American Association of Physics Teachers (AAPT) is offering a six-hour Physics Teaching Resource Agent (PTRA) Workshop on Analysis of Laboratory Data for Physical Science and Physics Teachers in Florida. See <http://www.flappt.org/>

This is funded by an AAPT mini-grant, and the theme of the AAPT/PTRA workshop will be Modeling Instructional Approach with a Generic 4-Step procedure for analyzing student laboratory data.

During the workshop, participants will do several laboratory activities. For each activity participants will measure, graphically display, and analyze the data using a graphing calculator. Calculators will be provided; however, participants are welcome to bring your own. The goal for each laboratory activity is to arrive at a general equation that summarizes the relationship between the variables measured. A CD with Black Line Masters of each activity will be provided to participants along with access to electronic versions that teachers can modify for their unique situation. Sample laboratory activities using a constant speed tumble buggy will be included as time permits:

- *Measurement of Speed on a Smooth and Level Surface*
- *Comparison of Average Speed and Final Speed*
- *Measurement of Speed on an Inclined Plane (Average vs. Final Speed)*
- *Comparing Linear Speed and Circular Speed*
- *Finding Speed & Velocity of a Car Traveling with Uniform Circular Motion*
- *Investigation of a Flashing Light*
- *The Mystery of Dark Matter*

These activities are representative of typical laboratory activities done in middle and high school classes, but the generic 4-step analysis can be used in many middle and high school laboratory activities.

The workshop will be held at **Doubletree Hotel at the Entrance to Universal Orlando** (1-800-843-8693 or 407-351-1000 Convention site for FAST conference) in the Pinellas Room on Friday, October 24, 2008. Lunch (sandwich, chips, water, and cookie) will be provided. Workshop will begin at 8:30 AM and will conclude at 4:00 PM.

At the conclusion of the workshop, the following items will be provided to each participant:

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| <ul style="list-style-type: none"><li>• CD with black line master of activities and other handouts used during workshop.</li><li>• Constant Speed Buggy used in the laboratory activities above.</li><li>• Free one year trial membership in FL-AAPT.</li><li>• Free six-month trial membership in AAPT.</li></ul> | <ul style="list-style-type: none"><li>• Physlets Book, Addison Wesley.</li><li>• Ranking Tasks Book, Addison Wesley.</li><li>• Role of the Laboratory Teacher Resource, AAPT Press.</li><li>• Teaching Physics for the First Time Teacher Resource, AAPT Press.</li><li>• The Mystery of Dark Matter, DVD and Teacher Resource, Perimeter Institute.</li></ul> |
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Due to limited funds, only 20 teachers can be accepted. To register for workshop, complete the application on <http://www.flappt.org/> and mail to

Jane Nelson, President FL-AAPT  
6871 SW 89<sup>th</sup> Way  
Gainesville, FL 32608-9243

You will receive confirmation by e-mail. You are also expected to register for the FAST conference. See [www.fastscience.org](http://www.fastscience.org)