

Fall 2011 TSAAPT WORKSHOPS
Texas A & M University - Commerce

FRIDAY A.M.

W1 “Studio Physics”, presented by Evan Richards, Lee College

Imagine a classroom without desks, or a central lecture area...rather picture a classroom where the focus is on active learning where students work in carefully formed teams on a variety of activities. The students are not just hearing about physics, but they are USING physics. This workshop will introduce you to the studio-learning environment with an emphasis on various types of activities used (activities that you might find useful in your courses).

Limited to 20 participants – 2 hours – Cost \$2.00

W2 “GPS and Relativity”, presented by Trina Cannon, Highland Park High School, Dallas

The use of GPS tracking systems is common and widely known. It's about time we use these ideas in classroom to show the importance of learning triangulation, relativity, satellite motion and relative speeds. Materials from Perimeter Institute will be used and given.

Limited to 30 participants – 1.5 hours – Cost \$2.00

FRIDAY P.M.

W3 “You can do this – When Pigs fly!”, presented by Trina Cannon, Highland Park High School, Dallas

Yes, pigs are flying and you can finally work on centripetal force without worrying about flying stoppers hitting a student in the eye. Why not use all these flying toys in the classroom.

Limited to 15 participants – 2 hours – Cost \$2.00

SATURDAY A.M.

W4 “The Mystery of Dark Matter”, presented by Trina Cannon, Highland Park High School, Dallas

With modern physics in the state curriculum, we need to work on the latest theories and help our students understand the perplexing ideas ahead. Materials from Perimeter Institute will be used and given away.

Limited to 30 participants – 1.5 hours – Cost \$2.00

W5 “And the Race is On!” presented by Regina Barrera, Lee College; Paul Williams, Austin Community College; and Tom O’Kuma, Lee College

Hydrogen, solar, capacitance... We will look at different ways of running a simple motor besides using a battery cell. We will look at “charging” a hydrogen fuel cell, a capacitor, and a solar cell in way besides the obvious. Then a model car will be built using these devices and we will see how far it will run.

Limited to 16 participants – 2 hours – Cost \$5.00