

SEPS/AAPT FALL DEMO - Sun Valley High School

Photos by Barry Feerman The meeting began with an informal supper at Sun Valley High School.







Gathering for the DEMOS



An Introduction from our host, Marc Baron, Sun Valley High School



Jillian Waldman, SEPS Corresponding Secretary (Archmere Academy) taking notes.



Art Zadrozny, our Treasurer (East High School, West Chester) gets us started.

Art discussed various techniques for improving the quality of the lab experience.



Barry Feierman, Westtown School (retired) presenting a Bag of Popcorn: how many kernals? A study of “regression towards the mean” to examine student bias.... Or what to do on a rainy Fall Demo Night when you don’t want to carry all of the cool Physics equipment in the rain.



So how many kernals were there ?

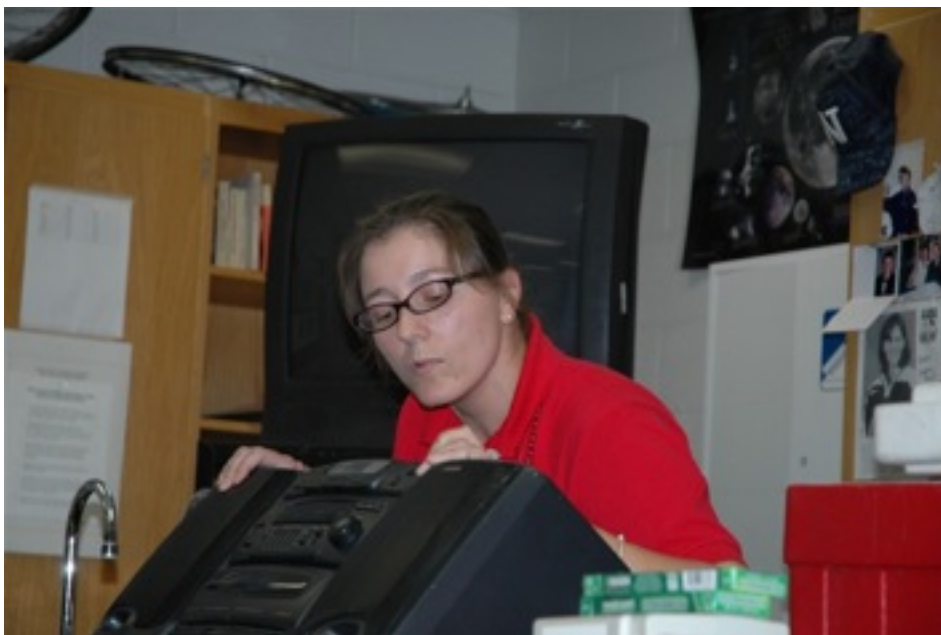


Ron Pedalty from East HS West Chester walks on broken glass With NO BLOOD... demonstrating the difference between FORCE and PRESSURE. This was one FANTASTIC demo.

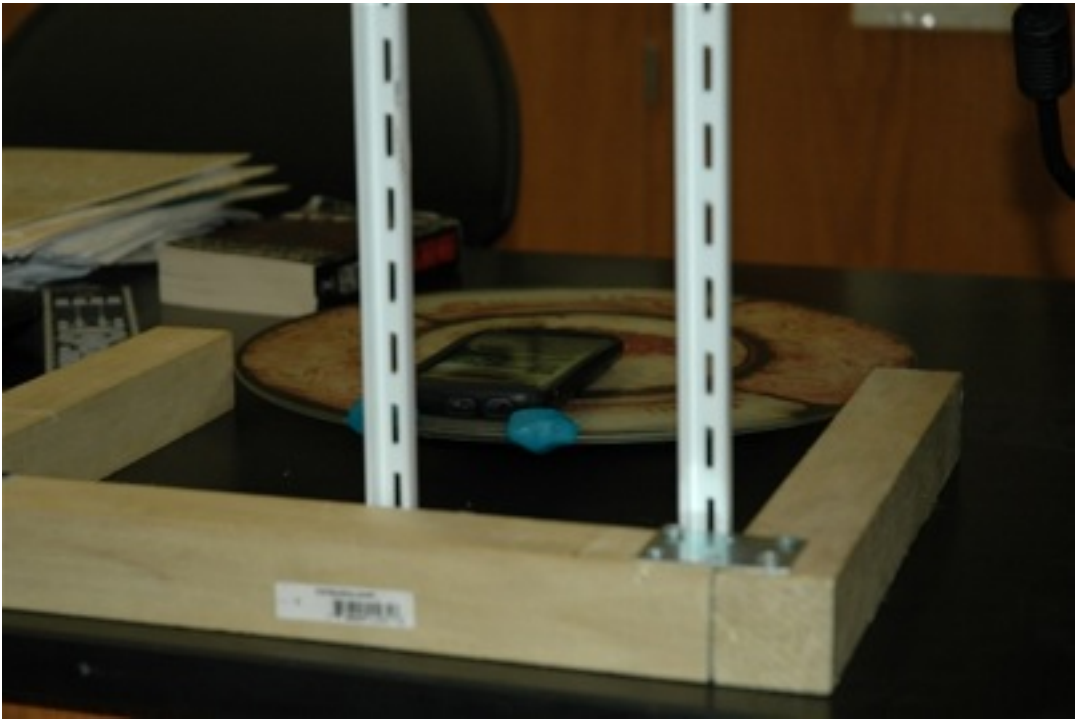


Mary Pandya (Owen J Roberts) demonstrating a simple home-made speaker with a voice coil wound on a tongue depressor stick, a magnet, and yes, Bill CAN hear the music.

Music was played from a retro “boom box” with CD music from the 80’s.



Bob Schwartz, Harriton HS (retired) discussing frames of reference and rotation with an I-phone.



Bruce Williamson (Delaware Valley Friends School) does some fascinating magic with gas pressure at low temperatures... note the bow tie for distraction.



Marc Baron, our host from Sun Valley High School, demonstrating the use of a force plate meter to measure the normal forces on an accelerating elevator.... differentiating between weight and normal force (apparent weight).



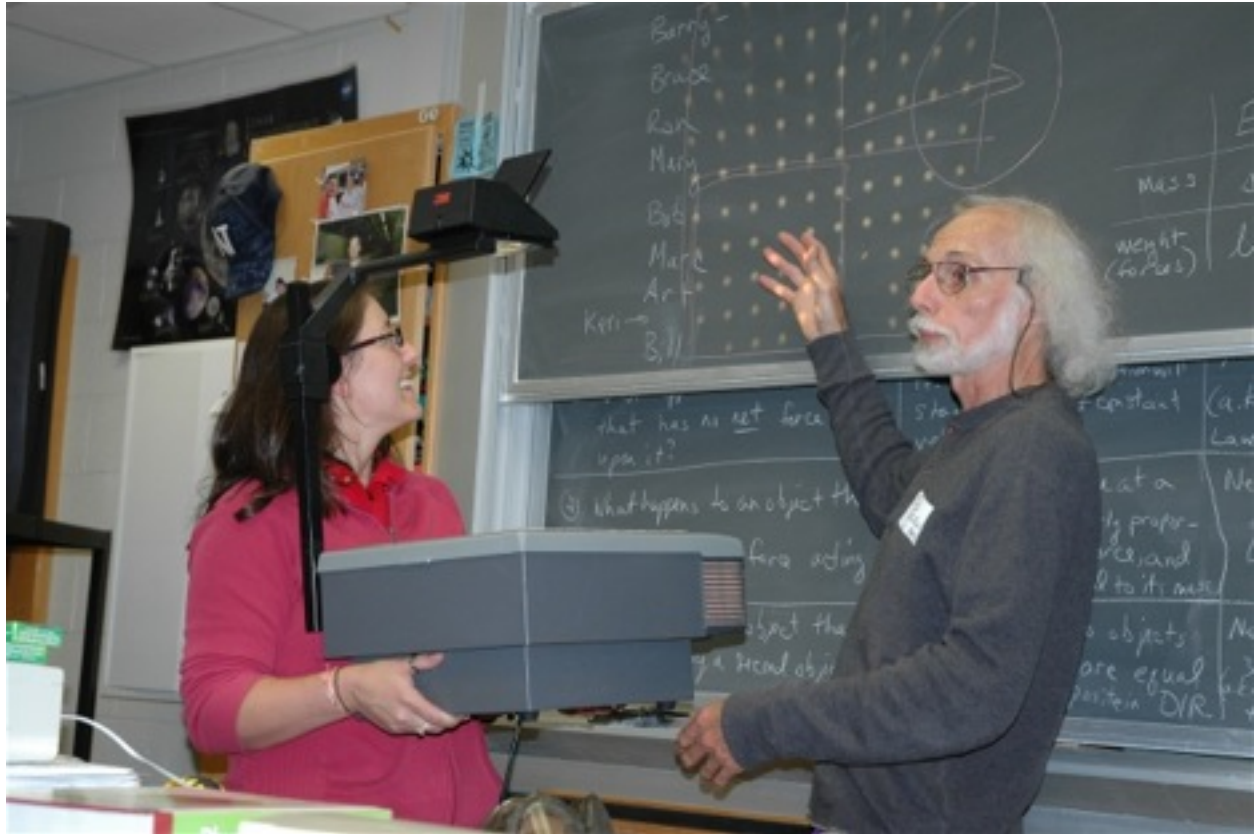
Student on scale.... Does the scale reading change in an accelerating elevator? Why?



Keri Salvador (Olney Charter School) reviews conversions of units and dimensional analysis on a website. This was Keri's first time doing a demo at SEPS/AAPT.



Bill Berner (University of Pennsylvania) doing all kinds of “magic” with very simple and hard to find equipment, like an “overhead projector”.





Bill asks “did the jumper’s center of mass ever clear the bar?” What do you think?



Thanks to our hosts at Sun Valley HS for a great FALL DEMO NIGHT.

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