

Alliance For Physics Excellence (APEX)
 Winter Weekend Workshop – Cohort 1
 Physics Teacher Institute (PTI) Activity Schedule
 Alabama A & M University & The University of Alabama in Huntsville

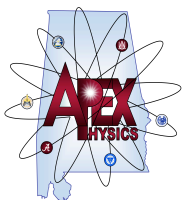


January 15 – 16, 2016

Day 1 – Friday, January 15, 2016

8:00 AM - 8:15 AM	<input type="checkbox"/> Welcome/Greetings/Coffee <input type="checkbox"/> Announcements	Mohan Aggarwal AA&MU and APEX Leadership
8:15 - 10:00 AM	<input type="checkbox"/> Engineering Task and Standards	Jim Slavicek Facet Innovations (1 3/4 hours)
10:00 – 11:00 AM	<input type="checkbox"/> Planning to elicit and Building on Learner Thinking.	Jim Minstrell, Facet Innovations (1 hour)
11:00 AM - Noon.	<input type="checkbox"/> Activity #4 from Teaching about Kinematics: <i>Investigation of a Flashing Light</i>	Jim Nelson AAPT/PTRA (1 hour)
Noon - 1:15 PM	Buffet lunch at the Bevel Center at UAH (75 minutes)	
1:15 - 2:15 AM	<input type="checkbox"/> DEMONSTRATION #1: Creation of Sound (e.g., vibrations of ruler, longitudinal propagation, Strobe of Tuning Fork, etc.)	Jim Nelson AAPT/PTRA (1 hour)
2:15 – 3:15 PM	<input type="checkbox"/> SOUND ACTIVITY #0: WHAT DOES SOUND LOOK LIKE?	Jim Nelson AAPT/PTRA (1 hour)
3:15 – 4:15 PM	<input type="checkbox"/> DEMONSTRATION #2: Properties of sound (e.g., amplitude/loudness, frequency/pitch, wavelength, Longitudinal, etc.)	Jim Nelson AAPT/PTRA (1 hour)
4:15 – 5:30 PM	<input type="checkbox"/> SOUND ACTIVITY #1: SPEED OF A SOUND PULSE	Jim Nelson AAPT/PTRA (1 1/4 hours)
5:30 – 6:15 PM	<input type="checkbox"/> Start Sound Activity #2: Resonance, Sounds Good to Me	Jim Nelson AAPT/PTRA (3/4 hours)
6:15 PM	Dinner (On Your Own)	

- Day 1 (Total = 8 3/4 hours)
- **Pedagogy = 1 hour**
- **Engineering Task and Standards = 1 3/4 hours**
- **AAPT/PTRA = 6 hours**



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Day 2 – Saturday, January 16, 2016

8:00 AM - 9:30 AM	<input type="checkbox"/> APEX Professional Learning Community: Progress for Partners in Reform (Cohorts 1 and 3 together)	Dennis Sunal (1 1/2 hours) University of Alabama at Tuscaloosa
9:30 – 10:45 AM	<input type="checkbox"/> Formative Assessment and Interpreting Using the Diagnoser Teacher Report: <input type="checkbox"/> Deciding next activities and planning to monitor retention for the whole course.	Jim Minstrell, Facet Innovations (1 1/4 hour)
10:45 – 11:30 AM	<input type="checkbox"/> Finish Sound Activity #2: Resonance, Sounds Good to Me	Jim Nelson AAPT/PTRA (3/4 Hour)
11:30 - 12:30 AM	<input type="checkbox"/> Topic TBA	Marius Schamschula AA&MU (1 hour)
12:30 – 1:30 PM	In House Working Lunch: Start SOUND ACTIVITY #3: SPEED OF SOUND SIMULATION (1/2 HOUR)	
1:30 - 2:00 PM	<input type="checkbox"/> Sound Activity #5: Palm Pipes, A “Handy” Musical Instrument	Jim Nelson AAPT/PTRA (1/2 Hour)

- **Day 1 (Total = 8 3/4 hours)**
- **Action Research = 0 hours**
- **Pedagogy = 1 hour**
- **Engineering Task and Standards = 1 3/4 hours**
- **AAPT/PTRA = 6 hours**
- **Technology = 0 hours**

- **Overall Totals = 14 1/4 hours**
- **Action Research = 1 1/2 hours**
- **Pedagogy = 2 1/4 hours**
- **Engineering Task and Standards = 1 3/4 hours**
- **AAPT/PTRA = 7 3/4 hours**
- **Technology = 1 hours**

- **Day 2 (Total = 5 1/2 hours)**
- **Action Research = 1 1/2 hours**
- **Pedagogy = 1 1/4 hours**
- **AAPT/PTRA = 1 3/4 hours**
- **Technology = 1 hour**