

**Alliance For Physics Excellence (APEX)
Fall Weekend Workshop – Cohort 3
Physics Teacher Institute (PTI) Activity Schedule
Alabama A & M University**



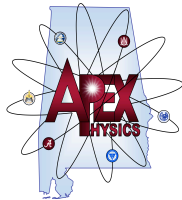
September 22-23, 2017

Day 1 – Friday, September 22, 2017

8:00 to 8:15 AM	<input type="checkbox"/> Welcome/Greetings/Announcements	Mohan Aggarwal, AA&M University and APEX Leadership
8:15 to 9:15 AM	<input type="checkbox"/> Activity #1: How is Sound Produced? – Page 9	Jim & Jane Nelson, AAPT/PTRA (1 hour)
9:15 to 9:30 AM	<input type="checkbox"/> Activity #2: Investigation of a Flashing Light (Discussion Only) – Page 17	Jim & Jane Nelson, AAPT/PTRA (1/4 hour)
9:30 to 10:45 AM	<input checked="" type="checkbox"/> Activity #3: Keep in Time! – Page 23	Jim & Jane Nelson, AAPT/PTRA (1 1/4 hours)
11:45 to Noon	<input type="checkbox"/> Start Activity #4: Speed of Sound Pulse – Page 29	Jim & Jane Nelson, AAPT/PTRA (1 1/4 hour)
Noon to 1:00 PM	<input type="checkbox"/> In house Working Lunch: Bottle whistling and chiming. Read Appendix B: APEX Content Instruction	
1:00 to 1:15 PM	<input type="checkbox"/> Finish Activity #4: Speed of Sound Pulse – Page 29	Jim & Jane Nelson, AAPT/PTRA (1/4 hours)
1:15 to 2:45 PM	<input type="checkbox"/> Activity #5: Speed of Sound Simulation – Page 37	Jim & Jane Nelson, AAPT/PTRA (1 1/2 hours)
2:45 to 3:45 PM	<input checked="" type="checkbox"/> Activity #6: What does Sound Look Like? – Page 41	Jim & Jane Nelson, AAPT/PTRA (1 hour)
3:45 to 5:30 PM	<input type="checkbox"/> Activity #7: Resonance, Sounds Good to Me – Page 53	Jim & Jane Nelson, AAPT/PTRA (1/3/4 hours)
5:30 to 6:30 PM	<input type="checkbox"/> Evaluation of Inquiry (Active) Learning Outcomes	Dennis Sunal (1 hour)

- Day 1 (Total = 9 1/4 hours)
- Action Research = 1 hours
- Pedagogy & Planning = 0 hour

- Content PTR = 8 1/4 hours
- Technology = 0 hour



Alliance For Physics Excellence (APEX)
 Fall Weekend Workshop – Cohort 3
 Physics Teacher Institute (PTI) Activity Schedule
 Alabama A & M University
 September 22-23 2017



Day 2 – Saturday, September 23, 2017

8:00 to 9:00 AM	<input type="checkbox"/> Activity #11: Decibels – Page 85	Jim & Jane Nelson, AAPT/PTRA (1 hour)
9:00 to 9:30 AM	<input type="checkbox"/> Activity #15: Sound and Vacuum – Page 121	Jim & Jane Nelson, AAPT/PTRA (1/2 hour)
9:30 to 11:00	<input type="checkbox"/> Student Thinking from Your Class Data.	Jim Minstrell Facet Innovations (1.5 hours)
11:00 to Noon	<input type="checkbox"/> Activity #9: Beats – Page 73	Jim & Jane Nelson, AAPT/PTRA (1 hour)
Noon to 1:00 PM	<input type="checkbox"/> In house Working Lunch: Activity #10 Palm Pipes – Page 79	
1:00 to 2:00 PM	<input type="checkbox"/> Your Potential Instructional Responses to your Students' Thinking.	Jim Minstrell Facet Innovations (1 hour)
2:00 -2:15 PM	<input type="checkbox"/> Workshop Evaluation (HRI Survey) /Closing Remarks	Mohan Aggarwal, AA&M University, HRI and APEX Leadership

- Day 1 (Total = 9 1/4 hours)
- Action Research = 1 hours
- Pedagogy & Planning = 0 hour
- PTRA & Engineering Content = 8 1/4 hours
- Technology = 0 hour
- Total for week-end = 14 1/4 hours
- Action Research = 1 hour
- Pedagogy & Planning = 2.5 hours

- Day 2 (Total = 5 hours)
- Action Research = 0 hour
- Pedagogy & Planning = 2.5 hours
- Content PTRA = 2.5 hours
- Technology = 0 hour
- PTRA Content = 10 3/4 hours
- Technology = 0 hours