



Alliance For Physics Excellence (APEX)  
 Winter Weekend Workshop – Cohort 2  
 Physics Teacher Institute (PTI) Activity Schedule  
 Alabama A & M University



February 12-13, 2016

Day 1 – Friday, February 12, 2016

8:00 to 8:15 AM	<input type="checkbox"/> Welcome/Greetings/Announcements	Mohan Aggarwal, AA&M Univ and APEX Leadership
8:15 to 10:00 AM	<input type="checkbox"/> Activity #1: Yellow Light Scientific & Social Design Problem – Topic → Kinematics & Engineering	Jim Nelson, AAPT/PTRA (1 3/4 hours)
10:00 to 11:30	<input type="checkbox"/> Activity #2: Newton’s Law of Cooling – Topic → Thermal Physics & Engineering	Jim Nelson, AAPT/PTRA (1 1/2 hours)
11:30 to Noon	<input type="checkbox"/> Planning next activities from the Diagnoser Teacher Report.	Jim Slavicek, Facet Innovations (1/2 hour)
Noon to 1:00 PM	<input type="checkbox"/> In House Working Lunch: (Critic of Jane’s Penguin Lesson) <input type="checkbox"/> Whiteboard list of positive and needs improvement aspects of Penquin Lesson	
1:00 to 1:30 PM	<input type="checkbox"/> Presentation of Whiteboard on Jane’s Penguin Lesson	(1/2 hour)
1:30 to 3:15 PM	<input type="checkbox"/> Activity #3: Power Transfer – Topic → Energy & Engineering	Jim Nelson, AAPT/PTRA (1 3/4 hours)
3:15 to 5:00 PM	<input type="checkbox"/> Activity #4: Engineering Task and Standards	Jim Slavicek, Facet Innovations (1 3/4 hours)
5:00 to 6:30	<input type="checkbox"/> Activity #5: Voltage Divider – Topic → Circuits & Engineering	Jim Nelson, AAPT/PTRA (1 1/2 hours)
<ul style="list-style-type: none"> <li>• Day 1 (Total = 9 1/4 hours)</li> <li>• Action Research = 0 hours</li> <li>• Pedagogy &amp; Planning = 1 hour</li> </ul>		<ul style="list-style-type: none"> <li>• PTR A &amp; Engineering Content = 8 1/4 hours</li> <li>• Technology = 0 hour</li> </ul>

8:00 to 9:30 AM	<input type="checkbox"/> Making successful change using APEX strategies and the APEX Professional Learning Community	Dennis Sunal, University of Alabama at Tuscaloosa (1 1/2 hours)
9:30 to 10:30	<input type="checkbox"/> Activity #7: Analog Versus Digital Communications (page 51 to 58)	Jim Nelson AAPT/PTRA (1 hour)
10:30 to 11:15 AM	<input type="checkbox"/> Learning Management Systems	Marius Schamschula, AA&M Univ (3/4 hour)
11:15 to Noon	<input type="checkbox"/> Activity #10: Analysis of a Centripetal Force Video (Do only Centripetal Force versus Speed data – Items 11 to 14 on page 109 to 110))	Jim Nelson AAPT/PTRA (3/4 hours)
Noon to 12:30 PM	<input type="checkbox"/> In house Working Lunch: Activity #6: (Hallway Switch)	
12:30 to 2:00 PM	<input type="checkbox"/> Develop an Engineering Design Task	Jim Slavicek Facet Innovations (1 1/2 hours)
2:00 PM	<input type="checkbox"/> Workshop Evaluation/Closing Remarks	Mohan Aggarwal, AA&M Univ and APEX Leadership
	<input type="checkbox"/>	

- Day 1 (Total = 9 1/4 hours)
- Action Research = 0 hours
- Pedagogy & Planning = 1 hour
- PTR A & Engineering Content = 8 1/4 hours
- Technology = 0 hour
- Total for week-end = 14 3/4 hours
- Action Research = 1 1/2 hours
- Pedagogy & Planning = 2 1/2 hours

- Day 2 (Total = 5 1/2 hours)
- Action Research = 1 1/2 hours
- Pedagogy & Planning = 1 1/2 hours
- PTR A & Engineering Content = 1 3/4 hours
- Technology = 3/4 hour
- PTR A Content = 10 hours
- Technology = 3/4 hours