

**Alliance For Physics Excellence (APEX)**  
**Spring Weekend Workshop – Cohort 3**  
**Physics Teacher Institute (PTI) Fluid Activities Schedule**  
**Alabama A & M University & The University of Alabama in Huntsville**

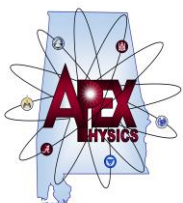


April 1 – 2, 2016

Day 1 – Friday, April 1, 2016

8:00 – 8:15 AM	<input type="checkbox"/> Welcome/Greetings/Coffee <input type="checkbox"/> Announcements	Mohan Aggarwal AA&MU and APEX Leadership Team
8:15 – 10:15 AM	<input type="checkbox"/> Physical Optics #1: SINGLE, DOUBLE, & MULTIPLE SLITS – Page 9	Jane & Jim Nelson AAPT/PTRA (2 hours)
10:15 – Noon	<input type="checkbox"/> Physical Optics #2: WAVELENGTH OF LIGHT – Page 23	Jane & Jim Nelson AAPT/PTRA (1 3/4 hour)
Noon – 1:00 PM	<b>In House Working Lunch: (60 minutes)</b> <i>Demonstration with Polaroid Filters</i>	
1:00 – 2:30 PM	<input type="checkbox"/> Physical Optics #3: CD GROVE SPACING – Page 31	Jane & Jim Nelson AAPT/PTRA (1 1/2 hours)
2:30 – 3:00 PM	<input type="checkbox"/> Physical Optics #4: HAIR’S DIAMETER (DISCUSSION ONLY) – Page 43	Jane & Jim Nelson AAPT/PTRA (1/2 hour)
3:00 – 4:15 PM	<input type="checkbox"/> Physical Optics #5: THE PHOTOELECTRIC EFFECT ... A SIMULATION – Page 51	Jane & Jim Nelson AAPT/PTRA (1 1/4 hours)
4:15 – 5:30 PM	<input type="checkbox"/> Physical Optics #6: LED and Planck’s Constant – Page 65	Jane & Jim Nelson AAPT/PTRA (1 1/4 hour)
5:30 – 6:30 PM	<input type="checkbox"/> <b>Develop an Engineering Design Task</b>	<b>Jim Slavicek</b> <b>Facet Innovations (1 hour)</b>
6:30 PM	<b>Dinner (On Your Own)</b>	

- **Day 1 (Total = 9 1/4 hours)**
- **AAPT/PTRA = 8 1/4 hours**
- **Action Research, et cetera = 0 hours**
- **Pedagogy = 1 hour**
- **Technology = 0 hour**



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**Day 2 – Saturday, April 2, 2016**

8:00 – 9:30 AM	<input type="checkbox"/> PHYSICAL OPTICS ACTIVITY #7: BUBBLE COLORS – Page 75	Jane & Jim Nelson AAPT/PTRA (1 1/2 hours)
9:30 – 10:30 AM	<input type="checkbox"/> PHYSICAL OPTICS ACTIVITY #8: MODERN THEORIES OF LIGHT – Page 91	Jane & Jim Nelson AAPT/PTRA (1 hour)
10:30 – Noon	<input type="checkbox"/> PHYSICAL OPTICS ACTIVITY #11: ATOMIC SPECTRA OF UNKNOWN – Page 111	Jane & Jim Nelson AAPT/PTRA (1 1/2 hour)
Noon - 1:00 PM	<b>In House Working Lunch: (60 minutes)</b> Mechanical Universe Video, <i>Wave Nature of Light</i> Physical Optics Activity #12: WAVE NATURE OF LIGHT WORKSHEET – Page 119	
1:00 – 2:00 PM	<input type="checkbox"/> OPTICS ACTIVITY #9: What’s Up with $\mu_0$ and $\epsilon_0$ ? A Worksheet to Enlighten!!:- Page 103	Jane & Jim Nelson AAPT/PTRA (1 hour)
2:00 – 2:15 PM	<input type="checkbox"/> Horizon Survey and Wrap-up	Mohan Aggarwal AA&MU, HRI and APEX Leadership (1/4 hour)

- Day 1 (Total = 9 1/4 hours)
- AAPT/PTRA = 8 1/4 hours
- Action Research, et cetera. = 0 hours
- Pedagogy = 1 hour
- Technology = 0 hour

- Overall Totals = 14 hours
- AAPT/PTRA = 12 hours
- Action Research, et cetera = 0 hours
- Pedagogy = 1 hour
- Technology = 0 hour

- Day 2 (Total = 5 hours)
- AAPT/PTRA = 5 hours
- Action Research, et cetera = 0 hour
- Pedagogy = 0 hour
- Technology = 0 hour

7-Habits by Eric Jensen, PhD CEO, Jensen Learning Brain-Based Education  
LET’S LOOK FOR THESE BEHAVIORS.

25 Things Successful Teachers Do Differently by Julie DuNeen  
APEX: QUESTIONS FOR SELF-REFLECTION: