

Alliance For Physics Excellence (APEX)
 Spring Weekend Follow-Up Workshop – Cohort 3
 Physics Teacher Institute (PTI) Physical Optics Activities Schedule
 Alabama A & M University & The University of Alabama in Huntsville



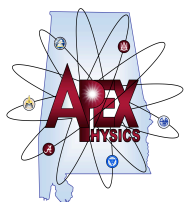
March 23 – 24, 2018

Day 1 – Friday, March 23, 2018

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 – 10:30 AM	<input type="checkbox"/> Physical Optics #2A: <i>DOUBLE SLITS</i> –Page 21 - Ripple Tank Part Done Last Summer) (Observe & Explain #3, 6, and 7 pages 22 & 23)	Jane & Jim Nelson AAPT/PTRA (2 & 1/4 hours)
	<input type="checkbox"/> Physical Optics #1: <i>SINGLE SLIT</i> – Page 9 (Observe and Explain #3, 5, 6 and, 8 pages 10 and 11)	
	<input type="checkbox"/> Physical Optics #3: <i>MULTIPLE SLITS</i> (Observe & Explain - Page 33 #2)	
	<input type="checkbox"/> Physical Optics #4: <i>SINGLE & DOUBLE SLIT QUESTIONS</i> (Odd Tables Single Slit Problems & Even 2-Slits Problems) - Page 41& 42 #1 to 5	
10:30 – Noon	<input type="checkbox"/> Physical Optics #5A and/or 5B: <i>WAVELENGTH OF LIGHT</i> Page 51 and Page 55	Jane & Jim Nelson AAPT/PTRA (1 & 1/2 hour)
Noon – 1:00 PM	In House Working Lunch: Start Physical Optics #16: <i>POLORIZED LIGHT AND POLORIOD FILTERS</i> - Page 155	
1:00 – 2:30 PM	<input type="checkbox"/> Physical Optics #6: <i>CD GROVE SPACING</i> – Page 63	Jane & Jim Nelson AAPT/PTRA (1 & 1/2 hours)
2:30 – 2:45 PM	<input type="checkbox"/> Physical Optics #7: <i>HAIR'S DIAMETER</i> (DISCUSSION ONLY) – Page 73	Jane & Jim Nelson AAPT/PTRA (1/4 hour)
2:45 – 4:30 PM	<input type="checkbox"/> Physical Optics #8: <i>THE PHOTOELECTRIC EFFECT ... A SIMULATION</i> – Page 81	Jane & Jim Nelson AAPT/PTRA (1 & 1/4 hour)
4:30 – 6:00 PM	<input type="checkbox"/> Physical Optics #9: <i>LED AND PLANCK'S CONSTANT</i> – Page 99	Jane & Jim Nelson AAPT/PTRA (1 1/2 hour)
6:00 - 6:30 PM	<input type="checkbox"/> <i>Eelicitation</i>	Jim Minstrell Facet Innovations (1/2 hour)
6:30 PM	Dinner (On Your Own)	

- **Day 1 (Total = 9 1/4 hours)**
- **AAPT/PTRA = 8 3/4 hours**
- **Action Research, et cetera = 0 hours**

- **Pedagogy = 1/2 hours**
- **Technology = 0 hour**



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Day 2 – Saturday, March 24, 2018

8:00 to 9:00 AM	<input type="checkbox"/> <i>Instruction to address student thinking</i>	Jim Minstrell Facet Innovations (1 hour)
9:00 to 10:30 AM	<input type="checkbox"/> Physical Optics #13: <i>ATOMIC SPECTRA OF UNKNOWN</i> – Page 141	Jane & Jim Nelson AAPT/PTRA (1 1/2 hours)
10:30 AM to 11:45 AM	<input type="checkbox"/> Physical Optics #10: <i>BUBBLE & THIN FILMS COLORS</i> – Page 111	Jane & Jim Nelson AAPT/PTRA (1 1/4 hours)
11:45 to Noon	<input type="checkbox"/> Discuss Dual Nature of Light - Page 121	Jane & Jim Nelson AAPT/PTRA (1/4 hour)
Noon - 1:00 PM	In House Working Lunch: (60 minutes) <i>Continue Physical Optics #16: Polarized Light and Polaroid Filters- Page 157</i>	
1:00 – 2:00 PM	<input type="checkbox"/> So, you reformed your classroom physics class. Will it last?	Dennis Sunal APEX Project Co-PI and UA-APEX Director (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 & 3/4 hours
- Action Research, et cetera. = 0 hours
- Pedagogy = 1/2 hour
- Technology = 0 hour

- Day 2 (Total = 5 hours)
- AAPT/PTRA = 3 hours
- Action Research, et cetera = 1 hour
- Pedagogy = 1 hour
- Technology = 0 hour

- Overall Totals = 14 & 1/4 hours
- AAPT/PTRA = 11 & 3/4 hours
- Action Research, et cetera = 1 hours
- Pedagogy = 1 & 1/2 hours
- Technology = 0 hour