Alliance For Physics Excellence (APEX)
Spring Weekend Workshop – Cohort 2
Physics Teacher Institute (PTI) Capacitor Activities Schedule
Alabama A & M University & The University of Alabama in Huntsville

March 11 – 12, 2016

Day 1 – Friday, March 11, 2016

8:00 AM - 8:15 AM	❑ **Welcome/Greetings/Coffee** ❑ **Announcements**	**Mohan Aggarwal AA&MU and APEX Leadership Team (1/4/ hour)(1/4 hour)**
8:15 – 8:45	❑ **Elicitation Questions for Capacitor Supplement – Page 93**	**(1/2 hour)**
8:45 – 9:45	❑ **Capacitor Activity #1: Film Can Capacitor – Page 7**	**Jim & Jane Nelson AAPT/PTRA (1 hour)**
9:45 – 10:45 AM	❑ **Capacitor Activity #2: What is a Capacitor? – Page 11**	**Jim & Jane Nelson AAPT/PTRA (1 hour)**
10:45 – 11:45 AM	❑ **Capacitor Activity #3: Circuit with Conducting "Island" – Page 19**	**Jim & Jane Nelson AAPT/PTRA (1 hour)**
11:45 AM – 1:00 PM	***Buffet lunch at the Bevel Center at UAH (75 minutes)***	
1:00 – 2:30 PM	❑ **Capacitor Activity #4: Capacitance Versus Plate Sepatation – Page 27**	**Jim & Jane Nelson AAPT/PTRA (1 1/2 hours)**
2:30 – 4:30 PM	❑ **Capacitor Activity #6: How A Capacitor's Capacity Is Determined? – Page 46**	**Jim & Jane Nelson AAPT/PTRA (2 hours)**
4:30 – 6:30 PM	❑ **Capacitor Activity #7: Capacitor Equations – Page 59**	**Jim & Jane Nelson AAPT/PTRA (2 hours)**
6:30 PM	**Dinner (On Your Own)**	

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Day 2 – Saturday, March 12, 2016

8:00 – 9:30 AM	❑ **Making successful change, monitoring teaching strategies, and the APEX Professional Learning Community**	**Dennis Sunal, Tara Ray, & Justina Ogodo University of Alabama (1 1/2 hours)**
9:30 – 11:00 AM	❑ **Capacitor Activity #8: Energy Stored in a Capacitor – Page 73**	**Tommi Holsenbeck & Bill Ossenfort AAPT/PTRA (1 1/2 hours)**
11:10 – Noon	❑ **Start Capacitor Activity #9: Capacitor Discharge – Page 81**	**Tommi Holsenbeck & Bill Ossenfort AAPT/PTRA (1 hour)**
Noon – 1:00 PM	**In-House Working Lunch: (1/2 hour) & Mechanical Universe Video #30: Potential and Capacitance: (1/2 hour)**	
1:00 – 1:45 PM	❑ **Finish Capacitor Activity #9: Capacitor Discharge**	**Tommi Holsenbeck & Bill Ossenfort AAPT/PTRA (3/4 hour)**
1:45 – 2:00 PM	❑ **Horizon Survey and Wrap-up**	**Mohan Aggarwal AA&MU, HRI and APEX Leadership (1/4 hour)**

- **Day 1 (Total = 9 hours)**
- **Action Research, et cetera = 0 hours**
- **Pedagogy = 1/2 hour**
- **AAPT/PTRA = 8 1/2 hours**
- **Technology = 0 hours**

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

- **Overall Totals = 14 hours**
- **Action Research, et cetera = 1 1/2 hours**
- **Pedagogy = 1/2 hour**
- **AAPT/PTRA = 12 hours**
- **Technology = 0 hours**