

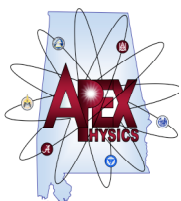
Alliance For Physics Excellence (APEX)
 Spring Weekend Workshop – Cohort 1
 Physics Teacher Institute (PTI) Activity Schedule
 Alabama A & M University



March 13 – 14, 2015

Day 1 – Friday, March 13, 2015

8:00 AM - 8:15 AM	<input type="checkbox"/> Welcome/Greetings/Coffee <input type="checkbox"/> Announcements	Mohan Aggarwal AA&MU and APEX Leadership	Room 129 V. M. Chambers Building
8:15 – 9:00	<input type="checkbox"/> Elicitation for Electricity Supplementals	Jim Minstrell, Facet Innovations (3/4 hour)	
9:00 – 9:30 AM	<input type="checkbox"/> Nuts & Bolts of Graphical Analysis (Possible Activity for Mathematics, Physical Science and/or Middle School Students)	Jim & Jane Nelson AAPT/PTRA (1/2 hour)	
9:30 – 10:30 AM	<input type="checkbox"/> Collision Video Analysis (Momentum & Kinetic Energy in Elastic and Inelastic Collisions, New activity for Energy Supplement)	Jim & Jane Nelson AAPT/PTRA (1 hour)	
10:30 – Noon	<input type="checkbox"/> Electric Circuit Activity (Activity #14: Measuring Current and Voltage in an Electrical Circuit New Activity for Circuit Supplement)	Jim & Jane Nelson AAPT/PTRA (1 1/2 hour)	
Noon - 1:00 PM	In-House Working Lunch: Wiring a 2-Way Switch (1/2 hour)		
1:00 – 1:45 PM	Action Research on Forces on Moving Objects	Jim Minstrell, Facet Innovations (3/4 hour)	Room 129 V. M. Chambers Building
1:45 – 3:45 PM	Planning to Teach about Forces on Moving Objects: <input type="checkbox"/> BOLT Planning C1.0 <input type="checkbox"/> BOLT Unit Planning Tool C1.1 <input type="checkbox"/> BOLT Explaining Motion Planning Tool C1.2 <input type="checkbox"/> BOLT Specific Plans for Forces to Explain Motion C1.3	Jim Minstrell, Facet Innovations (2 hours)	Room 129 V. M. Chambers Building
3:45 – 4:00 PM	<input type="checkbox"/> Review four squares in Teaching about Fields & Potential Supplement on page 66	Jim & Jane Nelson AAPT/PTRA (1/4 hour)	Room 129 V. M. Chambers Building
4:00 – 5:30 PM	<input type="checkbox"/> Data from Coulomb's Law (See page 49 in Electrostatics Supplement Activity #05) <input type="checkbox"/> How Does The Electrical Potential Energy Vary With Distance Between Two Point Charges? (Activity #6 From Teaching about Electric Fields and Potential)	Jim & Jane Nelson AAPT/PTRA (1 1/2 hour)	
5:30 – 6:30 PM	<input type="checkbox"/> Electric Circuit Activity #4A (Capacitance versus Distance, New Activity for Circuit Supplement - Capacitor)	Jim & Jane Nelson AAPT/PTRA (1 hour)	
6:30 PM	Dinner (On Your Own)		



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Day 2 – Saturday, March 14, 2015

8:00 - 9:30 AM	<input type="checkbox"/> Electric Circuit Activity #4B (Capacitor Simulation From Circuit Supplement - Capacitor) $C = K\epsilon_0 A/d$	Jim & Jane Nelson AAPT/PTRA (1 1/2 hour)	Room 129 V. M. Chambers Building
9:30 - 10:30 AM	<input type="checkbox"/> Electric Circuit Activity #5 (From Circuit Supplement - Capacitor) $C=Q/V$	Jim & Jane Nelson AAPT/PTRA (1 hour)	Room 129 V. M. Chambers Building
10:30 - 11:15 AM	<input type="checkbox"/> Electric Circuit Activity #6A (Film Can Capacitor, From Circuit Supplement - Capacitor)	Jim & Jane Nelson AAPT/PTRA (3/4 hour)	
11:15 - Noon	<input type="checkbox"/> Start Electric Circuit Activity #7 (From Circuit Supplement - Capacitor) Discharging a Capacitor	Jim & Jane Nelson AAPT/PTRA (3/4 hour)	Room 129 V. M. Chambers Building
Noon - 1:00 PM	In-House Working Lunch: Mechanical Universe Video 30. Potential and Capacitance: (1/2 hour)		
1:00 - 2:00 PM	<input type="checkbox"/> Finish Electric Circuit Activity #7 (From Circuit Supplement- Capacitor) – 1 3/4 hours	Jim & Jane Nelson AAPT/PTRA (1 hour)	Room 129 V. M. Chambers Building

- **Day 1 (Total = 9.25 hours)**
- **Action Research = 0 hours**
- **Pedagogy = 3.5 hours**
- **AAPT/PTRA = 5.75 hours**
- **Technology = 0 hours**

- **Overall Totals = 15 1/4 hours**
- **Action Research = 0 hours**
- **Pedagogy = 3.5 hours**
- **AAPT/PTRA = 10.75 hours**
- **Technology = 0 hours**

- **Day 2 (Total = hours)**
- **Action Research = 0 hours**
- **Pedagogy = 0 hours**
- **AAPT/PTRA = 5 hours**
- **Technology = 0 hours**