

Alliance For Physics Excellence (APEX) Summer 2014 Workshop

Physics Teacher Institute (PTI) Activity Schedule Electricity (Fundamentals - CASTLE PROJECT, DC Circuits & Electrostatics) Alabama A & M University $June \ 1-13, \ 2014$



Sunday, Orientation Meeting – June 1, 2014

Dunday, Offiche	Sunday, Orientation victing – June 1, 2014					
TIME	TOPIC	ACTIVITY	LOCATION	RESOURCE		
6:00 p.m. – 6:10 p.m.	Welcome	Dr. Barbara Cady Alabama A & M University Announcements/Housekeeping	AAMU Ernest L. Knight Center- VIP Room	APEX Team		
6:10 p.m. – 6:30 p.m.	Greetings - APEX New PI	Dr. Mohan Aggarwal, Chairperson, AAMU Department of Physics, Chemistry and Mathematics	AAMU Ernest L. Knight Center- VIP Room	APEX Team		
6:30 p.m. – 7:00 p.m.	Buffet Dinner		AAMU Ernest L. Knight Center- VIP Room			
7:00 p.m. – 8:00 p.m.	Electricity	Pre Institute Assessment (Participants Can Bring a Calculator)	AAMU Ernest L. Knight Center- VIP Room	AIR	Assessment	
8:00 p.m. – 9:00 p.m.	White Board Elicitations (Ala Jim Minstrell)	Battery, Bulb & Wire (How many ways to light a bulb?)	AAMU Ernest L. Knight Center- VIP Room	J&J Nelson	PCK	

Monday, Day 1 – June 2, 2014

TIME	TOPIC	ACTIVITY	RESOURCE	
8:00 a.m. – 9:00 a.m.	Eliciting Student Thinking (Ala Jim Minstrell)	Battery, Bulb & WireLight a bulb	J&J Nelson	PCK
9:00 a.m. – Noon	Electricity	PTRA Activities	J&J Nelson	DCK
Noon – 1:00 p.m.	Lunch Break	Lunch On Your Own		
1:00 p.m. – 5:00 p.m.	Electricity	PTRA Activities	J&J Nelson	DCK

Tuesday, Day 2 – June 3, 2014

TIME	TOPIC	ACTIVITY	RESOURCE	
8:00 a.m. – Noon	Electricity	PTRA Activities	J&J Nelson	DCK
8.00 a.m. – Noon	Electricity	r ika activities	J&J Nelson	DCK
Noon – 1:00 pm	Lunch Break	Lunch On Your Own		
1:00 – 2:00 p.m.	TPACK	Classroom Presentation Software	Marius	TPACK
1.00 2.00 p.m.	ITACK	Classicon i resentation software	Schamschula	TITICIX
2:00 p.m. – 5:30 p.m.	Electricity	PTRA Activities	J&J Nelson	DCK

Wednesday, Day 3 – June 4, 2014

TIME	TOPIC	ACTIVITY	RESOURCE	
8:00 a.m. – Noon	Electricity	PTRA Activities	J&J Nelson	DCK
Noon – 1:00 pm	Lunch Break	Lunch On Your Own		
1:00 – 2:00 p.m.	TPACK	Classroom Presentation Software	Marius Schamschula	TPACK
2:00 p.m. – 5:00 p.m.	Electricity	PTRA Activities	J&J Nelson	DCK

Thursday, Day 4 – June 5, 2014

TIME	TOPIC	ACTIVITY	RESOURCE	
8:00 a.m. – Noon	Electricity	PTRA Activities	J&J Nelson	DCK
Noon – 1:00 pm	Lunch Break	Lunch On Your Own		
1:00 – 2:00 p.m.	TPACK	Classroom Presentation Software	Marius Schamschula	TPACK
2:00 p.m. – 5:00 p.m.	Electricity	PTRA Activities	J&J Nelson	DCK

Friday, Day 5 – June 6, 2014

TIME	TOPIC	ACTIVITY	RESOURCE	
8:00 a.m. – 9:00	Electricity	Post Institute Assessment	AIR	Assessment
9:00 a.m. – 10:00	Magnetism	Pre Institute Assessment	AIR	Assessment
10:00 a.m Noon	Magnetism	PTRA Activities	J&J Nelson	DCK
Noon – 1:00 pm	Lunch Break	Lunch On Your Own		
1:00 – 2:00 p.m.	TPACK	Content Management Systems	Marius Schamschula	TPACK

WEEK 2- Cohort 1, Year 2

Monday, Day 6– June 9, 2014

TIME	TOPIC	ACTIVITY	RESOURCE	
8:00 a.m. – Noon	Magnetism	PTRA Activities	J&J Nelson	DCK
Noon – 1:00 pm	Lunch Break	Lunch On Your Own		
1:00 p.m. – 5:00 p.m.	Magnetism	PTRA Activities	J&J Nelson	DCK

Tuesday, Day 7 – June 10, 2014

TIME	TOPIC	ACTIVITY	RESOURCE	
8:00 a.m. – Noon	Magnetism	PTRA Activities	J&J Nelson	DCK
Noon – 1:00 pm	Lunch Break	Lunch On Your Own		
1:00 – 2:00 p.m.	Why Attend to Student Thinking?	Video: Can We Believe Our Eyes?	Jim Minstrell	PCK
2:00 p.m. – 4:30 p.m.	Magnetism	PTRA Activities	J&J Nelson	DCK
4:30 p.m. – 5:30 p.m.	Why Attend to Student Thinking?	Video and Discussion	Jim Minstrell	PCK

Wednesday, Day 8 – June 11, 2014

TIME	TOPIC	ACTIVITY	RESOURCE	
8:00 a.m. – Noon	Magnetism	PTRA Activities	J&J Nelson	DCK
Noon – 1:00 pm	Lunch Break	Lunch On Your Own		
1:00 p.m. – 2:00 p.m.	Assessing Physics Teaching and Learning	PTI and PTR Activities	Dennis Sunal	Action Research
2:00 p.m. – 4:30 p.m.	Magnetism	PTRA Activities	J&J Nelson	DCK
4:30 p.m.– 5:30 p.m.	Student Thinking about Electricity	Activities and Dialogue to Develop Student Ideas	Jim Minstrell	PCK
5:30 p.m. – 7:00 p.m.	Dinner	Dinner On Your Own		
7:00 p.m. – 9:00 p.m.	Where are WE Now?	PTR Activities	Dennis Sunal	Action Research

Thursday, Day 9 – June 12, 2014

TIME	TOPIC	ACTIVITY	RESOURCE	
8:00 a.m. – Noon	Magnetism	PTRA Activities	J&J Nelson	DCK
Noon – 1:00 pm	Lunch Break	Lunch On Your Own		
1:00 p.m. – 3:00 p.m.	Changes in Student Thinking	Diagnoser for Data Collection	Jim Minstrell	PCK
3:00 p.m. – 5:00 p.m.	Continuing our Professional Development	PTI and PTR Activities	Dennis Sunal	Action Research

Friday, Day 10 – June 13, 2014

TIME	TOPIC	ACTIVITY	RESOURCE	
8:00 a.m. – 11:00 am	Magnetism	PTRA Activities	J&J Nelson	DCK
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11:00 a.m. – Noon	Magnetism	Post Institute Assessment	AIR	Assessment
Noon – 1:00 pm	Lunch Break	Lunch On Your Own		
1:00 - 2:00 p.m.	TPACK	Content Management Systems	Marius Schamschula	TPACK