

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

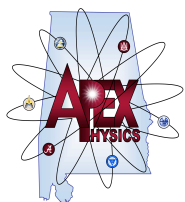


March 11 – 12, 2016

Day 1 – Friday, March 11, 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 – 9:15 AM	<input type="checkbox"/> Fluids Activity #1: Volume Units for Regular Solids and Liquids – Page 11	Tommi Holsenbeck & Bill Ossenfort AAPT/PTRA (1 hour)
9:15 – 10:30 AM	<input type="checkbox"/> Fluids Activity #3: Mass and Volume of Aluminum – Page 33	Tommi Holsenbeck & Bill Ossenfort AAPT/PTRA (1 1/4 hours)
10:30 – 11:00 AM	<input type="checkbox"/> Fluids Activity #6: Why do cans Float or Sink? – Page 51	Tommi Holsenbeck & Bill Ossenfort AAPT/PTRA (1/2 hours)
11:00 – 11:30 AM	<input type="checkbox"/> Fluids Activity #6B Elicitation 1: Weighing an Object in Air – Page 53 <input type="checkbox"/> A4: A Leaky Bottle and the Push by Water at Various Depths – Page 57	(1/2 hour)
11:30 – 12:45 PM	<i>Buffet lunch at the Bevel Center at UAH (75 minutes)</i>	
12:45 – 2:15 PM	<input type="checkbox"/> 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)
2:15 – 3:45 PM	<input type="checkbox"/> Fluids Activity #7: Buoyancy Simulation – Page 69	Tommi Holsenbeck & Bill Ossenfort AAPT/PTRA (1 1/2 hours)
3:45 – 4:45 PM	<input type="checkbox"/> Fluids Activity #8: Buoyancy Can-Can – Page 77	Tommi Holsenbeck & Bill Ossenfort AAPT/PTRA (1 hour)
4:45 – 6:30 PM	<input type="checkbox"/> Fluids Activity #9: Bags and Buoyancy (Collect Data) – Page 81 <input type="checkbox"/> Mention AP Problems from 2011, 2012, 2013 & 2014 – Page 141 to 152 <input type="checkbox"/> Do 2013 Problem #1 for homework. – Page 147	Tommi Holsenbeck & Bill Ossenfort AAPT/PTRA (1 3/4 hours)
6:30 PM	Dinner (On Your Own)	

- Day 1 (Total = 9 hours)
- Action Research, et cetera = 1 1/2 hours
- Pedagogy = 1/2 hour
- AAPT/PTRA = 7 hours
- Technology = 0 hour



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Day 2 – Saturday, April 11, 2016

8:00 - 9:00 AM	<input type="checkbox"/> Fluids Activity #11: Density Song – Page 99 <input type="checkbox"/> Fluids Activity #9: Bags and Buoyancy (Data Analysis) – Page 81	Jane & Jim Nelson AAPT/PTRA (3/4 hour)
9:00 – 10:30 AM	<input type="checkbox"/> Fluids Activity #13: What Happens to a Compressible Fluid Under Pressure? – Page 107	Jane & Jim Nelson AAPT/PTRA (1 1/2 hours)
10:30 – Noon	<input type="checkbox"/> Fluids Activity #14: Boyle's Law As an Introduction to Carnot Cycle – Page 117	Jane & Jim Nelson AAPT/PTRA (1 1/2 hour)
Noon - 1:00 PM	In House Working Lunch: The Cartesian Diver (1/2 hour)	
1:00 – 2:00 PM	<input type="checkbox"/> Fluids Activity #17: Bernoulli's Equation – Page 131	Jane & Jim Nelson AAPT/PTRA (1 hour)
2:00 PM	<input type="checkbox"/> 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. = 1 1/2 hours
- Pedagogy = 1/2 hour
- AAPT/PTRA = 7 hours
- Technology = 0 hour
- Overall Totals = 14 hours
- Action Research, et cetera = 1 1/2 hours
- Pedagogy = 1/2 hours
- AAPT/PTRA = 12 hours
- Technology = 0 hour

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