**PS–21 Institute Days 2013- 2014:   
*Improving Teacher Quality and Mastery of Content***

***Priority Concept Survey***

***Professional development needs can take many forms – enhance your background knowledge, understand student’s prior knowledge for a concept, enhance resources and strategies in teaching a difficult concept to your students, need to change and upgrade your instructional approach to reach and motivate more students, etc.***

***Complete your response on this form and save to your computer. Then email as an attachment to*** [***dwsunal@bama.ua.edu***](mailto:dwsunal@bama.ua.edu) ***before the October 4 Institute.***

***Please indicate your level of need for professional development with the following scheduled PS-21 physical science concepts:***

1= High; 2= Medium; 3= Low

***Below each item indicate your specific need concerning this item.***

1. \_\_\_\_\_\_ Work and Energy
2. \_\_\_\_\_\_Energy transformation
3. \_\_\_\_\_\_ Properties of sound
4. \_\_\_\_\_\_ Kinetic theory, states of matter, phase change, solubility, chemical reactions
5. \_\_\_\_\_\_ Magnetism –creating fields by induction and currents, and magnets
6. \_\_\_\_\_\_ Solutions and solubility
7. \_\_\_\_\_\_ Electricity, DC circuits, bulbs, LEDs, and light sensors
8. \_\_\_\_\_\_ Change in equilibrium in chemical systems, Le Chatelier’s principle
9. \_\_\_\_\_\_ Relevance of the Common Core and Next Generation Science Standards in teaching secondary physical science
10. \_\_\_\_\_\_ Using the Common Core and Next Generation Science Standards in teaching secondary physical science
11. \_\_\_\_\_\_ effective strategies for a teaching specific science concepts
12. \_\_\_\_\_\_ using a general inquiry teaching strategy for teaching science concepts that can motivate students and creates meaningful learning
13. \_\_\_\_\_\_ data collection and data simulation technology for students
14. \_\_\_\_\_\_ Modeling events to collect data and understanding and relating variables
15. \_\_\_\_\_\_ teaching presentation and student engagement technology strategies

**Please add additional physical science concepts below that you have specific need for additional enhancement:**

1. **\_\_\_\_\_\_**
2. **\_\_\_\_\_\_**
3. **\_\_\_\_\_\_**
4. **\_\_\_\_\_\_**

**Etc.**