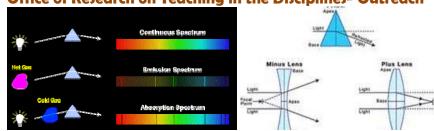
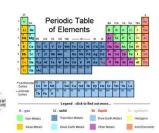
Office of Research on Teaching in the Disciplines- Outreach





THE UNIVERSITY OF

Physical Science in the 21st Century (PS-21): Improving Teacher Quality and Mastery of Content

Partners: Alabama Commission on Higher Education (ACHE), UA College of Education –Science Education; UA College of Arts and Sciences – Physics Department and Chemistry Department; UA Office of Research on Teaching in the Disciplines; and Alabama School Systems

The University of Alabama introduces a newly funded professional development project, *Physical Science in the 21st Century*, and extends an invitation to you participate in the activities during the school year 2012 - 2013. This institute is open for all in-service teachers involved in teaching, or planning to teach, in the physical sciences. Teacher substitute funding is available for each workshop.

When and Where: Workshops to be held in local West Alabama schools and on campus

2012-13 Institute Dates:	Tentative Topic Areas (teacher input considered)
Friday, September 28, 2012	Institute Day 1: Light, reflection, refraction, lenses, color, and
	atom/electron structure through spectroscopy
Friday, November 2, 2012	Institute Day 2: Physical and chemical change, solutions, and data
	collection technology
Friday, February 1, 2013	Institute Day 3: Nuclear composition and isotopes, and the Law of
	Conservation of Matter
Friday, March 8, 2013	Institute Day 4: Density, heat capacity, and the structure of atoms using
	the periodic table and data collection technology

Continuous Professional Development Online - Group activities, communication, mentors All topics integrate – inquiry pedagogy, using technology in teaching the physical sciences, and working with other teachers in a professional learning community

Project Personnel from the University of Alabama involve:

Dr. James W. Harrell and Dr. Stanley Jones - UA Physics and Astronomy Department

Dr. John Vincent - UA Chemistry Department

Dr. Dennis Sunal, Dr. Cynthia Sunal & Dr. Donna Turner -UA Department of Curriculum and Instruction

Dr. Michael Odell, project evaluator, in science education at the University of Texas at Tyler

If you are interested in participation in this project, you are encouraged to contact Dr. Dennis Sunal at dwsunal@bama.ua.ed or Donna Turner at dpturner@crimson.ua.edu.

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