David Sokoloff <sokoloff@uoregon.edu>
March 9, 2013 9:28 AM
To: Jim Redmond
Active Learning Chautauqua course

Dear James:

Would you please have this publicized to Hawaii section members.Thanks. David

Research-Based Active Learning in Introductory Physics

NEW: Including RealTime Physics 3rd Edition, Clicker Interactive Lecture Demos and Video Analysis

Chautauqua Short Course

June 21-23, 2013, Portland, OR

Designed for those who teach introductory physics at universities, colleges and high schools. Graduate credit will be available.*

Instructors: Priscilla Laws, Dickinson College, David Sokoloff, University of Oregon, Ronald Thornton, Tufts University

This hands-on course is designed for those interested in making learning in their introductory course more active either within a traditional course structure (lectures, labs, and recitation hours), or by re-structuring their course (e.g., into a workshop or studio course).

Participants will be introduced to physics education research-validated strategies for each component of the introductory course such as Interactive Lecture Demonstration (ILDs), RealTime Physics (RTP) labs, Activity Based Tutorials, Collaborative Problem-Solving Tutorials, Workshop Physics, and Physics with Video Analysis, along with strategies for analytic mathematical modeling. Some recent developments include the new electricity and magnetism labs in the 3rd Ed. of RTP, and ILDs using personal response systems (clickers) and interactive video analysis. The tools and software accompanying these active learning strategies are available for both Macintosh and Windows computers.

Results of studies on the effectiveness of these curricula will also be discussed. Participants will receive complimentary copies of the active learning curricula, along with Teaching Physics with the Physics Suite, a comprehensive book by E.F. Redish (University of Maryland) on strategies for implementing physics education research-based curricula. (The curricula are also available in the High School e-dition--a more convenient form for high school use .) Physics topics will be chosen from both semesters of the introductory physics course.

* Up to two hours of graduate credit will be available from the University of Oregon.

For more information and to register: http://pages.uoregon.edu/sokoloff/CHAUT.htm

or contact David Sokoloff, Department of Physics, 1274 University of Oregon, Eugene, OR 97403-1274, E-mail: sokoloff@uoregon.edu, Phone: (541) 346-4755, Fax: (541) 346-5861.

David Sokoloff
Professor of Physics, University of Oregon

Board President of Arts Umbrella, *home of the Eugene Youth Symphony*
Past Past President, American Association of Physics Teachers

Department of Physics
1274 University of Oregon
Eugene, OR 97403-1274
Office Phone: 541-346-4755
Mobile Phone: 541-221-6543
Fax: 541-346-5861
e-mail: sokoloff@uoregon.edu