ACTIVE LEARNING IN PHYSICS EDUCATION USING IT (MBL) TOOLS

ASPEN Workshop
Takamatsu, Kagawa, Japan
August 11, 2006

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9:00 AM Introduction—Characteristics of an Active Learning Environment

9:15 AM Hands-on work with RealTime Physics (RTP) Mechanics,
Lab 1, Investigations 1 and 2

10:00 AM Pause for questions and discussion

10:10 AM Hands-on work with RealTime Physics Mechanics,
Lab 2, Investigations 1 and 3

11:00 AM Introduction to Interactive Lecture Demonstrations (ILDs)
ILDs in Mechanics and Electric Circuits.

11:40 AM The Force and Motion Conceptual Evaluation (FMCE).
Learning gains on the FMCE with RTP Mechanics labs and with ILDs.

11:50 AM Discussion: What are the characteristics of the IT Tools and Curricula that make them effective?

12:00 PM End