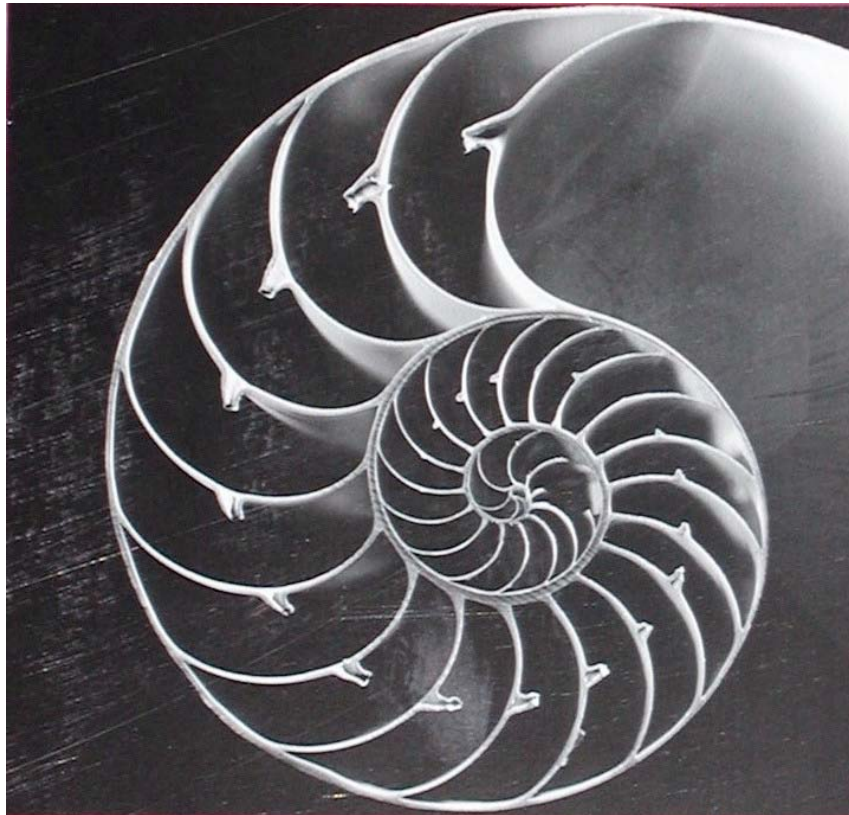


ACTIVE LEARNING IN PHYSICS EDUCATION USING IT (MBL) TOOLS

***ASPEN Workshop
Takamatu, Kagawa, Japan
August 11, 2006***



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University of Oregon, USA***

Interactive
Lecture
Demonstrations
Active Learning
in Introductory Physics



THE PHYSICS SUITE

DAVID R. SOKOLOFF
RONALD K. THORNTON

ACTIVE LEARNING IN PHYSICS EDUCATION USING IT (MBL) TOOLS

ASPEN Active Learning Workshop
Friday, August 11, 2006 Takamatu, Kagawa, Japan

- 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