

The University of Iowa  
Physics and Astronomy Lecture Demonstrations

<b>Author:</b>	<b>Time:</b>	<b>Institution:</b>	<b>Abstract:</b>
David Meltzer	November 6, 2004 10:40 am	Iowa State University	<p><b>Invited Talk:</b> "Research in Physics Education and the Connection to Classroom Teaching."</p> <p>In recent years, systematic research in physics education has led to advances in our understanding of the learning process. Careful investigations of students' reasoning along with assessments of innovative instructional methods have provided insights into more effective teaching strategies. I will outline the principal goals and methods of this research, and describe how it can help lead to improvements in classroom teaching. With examples drawn from investigations we have carried out at Iowa State University, I will illustrate the research process and show how it is helping us develop improved curricula and instructional methods.</p>