

2004 Summer Conference

Funded by the U.S. Dept. of Education (Grant #R215K010106), The National Science Foundation (Grant #9987444), and the Balfour Foundation

June 20 - 22, 2004

- [Call for Posters & Registration Information](#)
- [Registration Form](#)
- [Invited Speakers](#)
- [Schedule of Events](#)

Integrating Science and Mathematics Education Research into Teaching

**The University of Maine
Orono, Maine**

Role of Diverse Representational Modes in the Learning of Physics

Dr. David E. Meltzer, Department of Physics and Astronomy, Iowa State University

I will report results of a variety of investigations aimed at exploring the role of diverse representational modes in the learning of physics. These include (1) student learning difficulties with standard representations such as graphical representations of vectors, (2) relationship between student problem-solving performance and the particular representational mode in which a problem is posed, and (3) evolution of student thinking regarding certain standard representations over the course of instruction.

Supported in part by NSF REC #0206683