



Carl Wieman Science Education Initiative Seminar

Wednesday, October 19, 2011

1:00pm

Wesbrook Building, Room 302

All are welcome

Joe Ferrare

Wisconsin Center for Education Research
University of Wisconsin-Madison

Capturing Multiple Dimensions of Instructional Practice: The Teaching Dimensions Observation Protocol

This talk will focus on the development, implementation, and analysis of the Teaching Dimensions Observation Protocol (TDOP). The TDOP is an observation instrument used to simultaneously capture multiple dimensions of practice in real-time throughout the duration of a class period. The different dimensions currently captured by the TDOP include: teaching techniques (e.g., lecture, small group work, whole class discussion, etc.), cognitive demands placed on students (e.g., receive/memorize, problem solving, integration, etc.), and the use of instructional artifacts (e.g., clickers, blackboard, experimental equipment, etc.). However, the flexibility built into the design of the TDOP makes it possible to add or subtract dimensions depending upon the specific pedagogical context. After discussing the design of the instrument, the talk will then focus on its implementation at three large research universities in the United States. Next, analysis strategies will be discussed and example analyses will demonstrate a handful of the many possible ways in which the TDOP can assist in the design and evaluation of instructional reform efforts.

For more information, contact Grace Wood (grace.wood@ubc.ca)