

Please join us for a UC San Diego Education Initiative presentation

Beyond Assessing Knowledge – Card Sorting, Superheroes, and Moving Towards Measuring Conceptual Expertise among Undergraduates

Kimberly D. Tanner

Associate Professor of Biology, San Francisco State University

Wednesday, May 7, 2014

Horizon Room, 1st Floor, Career Services Center

3:30pm - 4:00pm

Light Refreshments

4:00pm - 5:30pm

Research Seminar

Register at <http://academicaffairs.ucsd.edu/ug-ed/education-initiative.html>

by Friday, May 2, 2014

How do experts structure their thinking about the concepts in their discipline? How is this different from the way those new to the field approach these same ideas? In this interactive seminar, Dr. Kimberly Tanner will engage the audience in thinking about expert and novice thinking by drawing upon her own research that integrates methodologies from biology education and cognitive psychology. Approaches to understanding and measuring conceptual expertise, specifically, are strongly tied to ideas put forward by the American Association for the Advancement of Science (AAAS) and the National Science Foundation (NSF) in the recently published, *Vision and Change for Undergraduate Biology Education*.

Dr. Kimberly Tanner is a tenured faculty member in Biology at San Francisco State University. She directs [SEPAL](#) – the Science Education Partnership and Assessment Laboratory, which is focused on understanding how people learn science, especially biology. Her research in biology education holds the promise of revealing insights into preconceptions and misconceptions in biology that can guide strategies for curriculum improvement and teaching reform.

Trained as a research neurobiologist, Dr. Tanner has been nationally recognized for both her research and her teaching in biology. Her most recent awards include being named the 2011-12 Outstanding Undergraduate Science Teacher Award by the Society for College Science Teachers and being elected this past fall as a Fellow to the California Academy of Sciences.