



COLLOQUIUM



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New Opportunities and Rethinking Goals for Fresno State Physics Labs

A recent Physics Today article has prompted many in the science community to rethink the purpose of the physics lab, providing a new opportunity to enhance instruction through new research-based instructional models. One such model is Course-based Undergraduate Research Experiences (CURES), a national initiative to transform labs into vehicles for student research. The CURES model will be discussed along with how it has been implemented within our College of Science and Mathematics, its potential for enhancing introductory physics labs, and how it can contribute to the knowledge base on science learning. The CURES model would align closely with current efforts to modernize our existing error analysis procedures to NIST and ISO standards. Presenters will also introduce a relatively new physics lab instructional model created at the University of Cincinnati centered on scientific reasoning. Such a model could hold promise for local implementation as well as partnering with other universities on large-scale research.

3:00-4:30 p.m., Friday, February 23rd in McLane 162