C S L Center for STEM Learning

CSL 10th Annual Symposium
Wednesday September 26th, 3:00-6:00 PM
UMC Ballroom

The Center for STEM Learning invites you to the 10th Annual Symposium on STEM Education!

Celebrating excellence and commitment to STEM education, student engagement and learning!

This event is a celebration of CU Boulder's internationally recognized STEM education initiatives.

This year's event will feature a panel of individuals who have engaged in innovative ways of teaching and transforming science and mathematics education. As in years past, we will also feature a CU STEM Education Showcase for CU Boulder faculty, instructors, and students, as well as community members and K-12 teachers to present posters on their research and course transformation efforts. **Please join us!** Come learn and help shape how our campus is redefining learning and discovery in a global context, and setting new standards in education, research, scholarship, and creative work to transform STEM education.

3:00pm - 3:45pm: CU STEM Education Showcase: Poster Session A

3:45pm - 4:30pm: CU STEM Education Showcase: Poster Session B

4:30pm - 4:40pm: Welcome and Introduction:
Dr. Valerie Otero, Science Education, and Dean Mary Kraus, Vice Provost and Associate Vice Chancellor for Undergraduate Education, University of Colorado Boulder

4:40pm - 5:30pm: Panel Presentation

5:30pm - 6:00pm: Social

For more details about this event, please visit our website at: colorado.edu/csl
Registration is free, but you must be registered in order to attend the event.
Please contact William Tarantino with questions at 303.492.9546 or email CSL@Colorado.edu

WEDNESDAY, SEPTEMBER 26TH, 3:00-6:00 PM

Center for STEM Learning
UNIVERSITY OF COLORADO **BOULDER**

colorado.edu/csl | csl@colorado.edu | 303.492.6963

Be Boulder.
University of Colorado **Boulder**

Center for STEM Learning

CSL Symposium Panel Discussion

Wednesday September 26th, 4:30-5:30 PM

Glenn Miller Ballroom

Positive & Purposeful Educational Transformation: Stories from the Front Range

A Panel Discussion with Four Change Makers

Bethany Wilcox received undergraduate and PhD degrees in Physics at the University of Colorado. At the Colorado School of Mines (CSM). Bethany worked on developing studio physics courses: a highly immersive active learning experience. She discovered successful implementations of classroom innovations, even when they are sustained in the long-term, are not 'one-and-done' processes; some problems in the classroom persist even after the classroom innovation has been implemented. Moreover, the innovation itself can introduce new challenges that require continued effort and further transformation.

Robert (Bud) Talbot is an Associate Professor of Science Education in the School of Education and Human Development at the University of Colorado Denver (UCD). He is co-director of the CU Denver STEM LA Program, and PI of an NSF funded multi-institutional research program investigating the impact of active learning and LA supported pedagogies on undergraduate science student success. Dr. Talbot is spearheading educational transformation at UCD and in the process of instigating change, he discovered transformation has to happen at all levels of an institution: the key is to leverage the efforts at various levels so they can work together and act synergistically.

Sarah M. Zerwin is a language arts teacher and newspaper adviser at Fairview High School in Boulder. She earned a PhD in secondary literacy curriculum and instruction from CU Boulder in 2009. In her classroom, she works to help students see that they read and write in class so they can read our complex world and write their lives and futures within it. Part of this is deflecting their gaze from grades and points so they can focus fully on the learning they need to do to grow as readers and writers. Sarah has written about this work on her blog (ThePaperGraders.org) and is working on a book about disrupting traditional approaches to grading.

Eric Stade grew up in New York City, and is presently Professor of Mathematics and President's Teaching Scholar at the University of Colorado Boulder. Recently, Eric investigated mathematical, pedagogical, and cognitive aspects of the question of "precedence" in mathematics. Roughly speaking, this is the issue of when and whether "been there, done that" is, mathematically speaking, fundamentally different from "done that, been there." Eric and the math department successfully disrupted the convention of offering large enrollment classes with a sustained model of small Calculus 1 sections that, like all change, has short- and long-term benefits and challenges.

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