



TRESTLE

TRANSFORMING EDUCATION, STIMULATING TEACHING AND LEARNING EXCELLENCE

Spring 2018

2018 TRESTLE Annual Gathering connects STEM departments



The 2018 TRESTLE @ CU meeting (February 28th, 2018) featured lively discussion around STEM educational change, including a panel on "Facilitating change without burning out," topical discussions around learning goals, undergraduate research, group activities, and helping students reflect on their learning, plus posters by TRESTLE participants.



If you missed it (and even if you didn't), you can find handouts from group discussions, copies of posters, and the "On Change" primer on leading change initiatives at colorado.edu/csl/trestle/trestle-annual-meeting

ANNOUNCEMENTS

TRESTLE contributes to paper in journal Science
Data from 709 courses shows that traditional lecture practices are still common, and not clearly related to course size or class layout. These findings highlight the need for projects like TRESTLE (which contributed data and analysis). See sciencemag.org (Mar 30).

2018 Summer Institutes on Scientific Teaching.
College STEM faculty and future faculty are invited to apply for these intensive, multi-day workshops for enhancing student learning -- July at various locations around the country: See summerinstitutes.org.

ASCN Systemic Change Institute.
Through March 31, institutional teams can apply to attend this institute to help you implement and sustain your STEM change project. See ascnhighered.org.

Denver CURE Institute Applications open.
Plan your course-based undergraduate research experiences (CUREs) in this Denver institute June 4-8. serc.carleton.edu/curenet/institutes/denver

TRESTLE is a 7-institution, NSF-funded project focused on improving STEM education methods through embedding educational expertise directly into departments, and building intellectual communities. Brownbags and virtual colloquia listed at national site at trestlenetwork.org



TRESTLE Course Transformation Awardees

Supporting STEM departments and faculty engaging in significant course development.

Information & copies of proposals at colorado.edu/csl/trestle/trestle-awards



ENVS scales up new majors' course

Eve-Lyn Hinckley
(Environmental Studies)
TRESTLE support to map

course goals and scale ENVS-1001, an active learning course focused on building quantitative skills for majors, from 48 to 120 students this semester. In addition, Hinckley formed a Faculty Learning Community with ENVS colleagues Amanda Carrico, David Ciplet, Lisa Dilling, and Carrie Vodehnal to identify learning goals for the two introductory ENVS courses, design new assessment tools, and begin mapping learning goals across the major. The FLC meets biweekly, and is serving to catalyze larger efforts within ENVS to transform the undergraduate curriculum.



TRESTLE project to address climate in engineering

Congratulate Derek Reamon and Janet Tsai (Engineering Plus),

who were awarded the final TRESTLE award for their proposal, Transforming "GEEN 1400: First Year Engineering Projects" to Enhance Climate and Inclusivity. GEEN 1400 is a team-based introduction to engineering projects taken by the majority of first-year engineering students. It thus sets the tone for future collaborative work in engineering; Reamon and Tsai will further develop an intervention in this course to improve the climate for women and minorities, and work with faculty to incorporate the approach broadly.

TRESTLE Scholars Learning Communities

Topical peer communities focused on implementing evidence-based teaching practices.

Information at colorado.edu/csl/trestle/trestle-scholars-learning-communities

2017 Course Based Undergraduate Research Experiences (CURE) Scholars Community white paper.

A group of 14 faculty and instructors participated in the 2017 TRESTLE Scholars community focused on CUREs.

"This has been a great way to hear about CUREs and think about how CUREs could be sustainable in my department," said one participant. As part of their work, the group created a white paper for the Academic Futures initiative, which is available on our website. This Scholars community was led by Lisa Corwin (EBIO) and Pamela Harvey (MCDB), who are happy to discuss CUREs with others or share resources from the group.



2018 Scholars to focus on Curriculum Alignment and Assessment

We will offer two additional Scholars groups; registration is available at the URL above.

- Fall 2018: Aligning your curriculum
- Spring 2019: Effective classroom assessments