

Postsecondary Strand

Join our community of postsecondary educators as important and relevant topics in STEM education are discussed and debated in this unique *Edcamp/unconference* format. Participation in STEM research and research on STEM teaching and learning is a primary focus for college and university faculty. Interdisciplinary research in the STEM fields provides both the model for the *NGSS Science and Engineering Practices* as well as the foundation for the disciplinary core ideas. STEM research is, by nature, interdisciplinary and crosscutting. Sessions in this strand will highlight pedagogical and discipline-based research on STEM teaching and learning as well as research in the areas of effective professional development, preservice education, and STEM fields of study.

All postsecondary proposals should be submitted to the following address **no later than 12 Midnight, February 14, 2020**: postsecondary@nsta.org. Be sure to include your full name, school name, e-mail, and cell number as well as a session title and 100-word description of your proposal.

If you do not receive a confirmation within 24 hours of receipt, please e-mail bogle@beaconcollege.edu.

Presenters will be notified no later than March 30, 2020.

The process and timeline for this *Edcamp/unconference* will allow university personnel to continue their research throughout the year and to present the most updated and relevant topics in a venue conducive to their university's requirements for tenure and promotion.

Come join us as we collaborate and confer to share new knowledge, solve issues facing STEM educators, and build understanding through our shared experiences. Be prepared to move, learn, and lead through our new *Edcamp/unconference* experience. Join colleagues from around the globe as you network to gain a deeper understanding and to share common goals. Welcome to the STEM Forum & Expo's *Edcamp!*

GOALS: To provide workshops, presentations, and an *Edcamp/unconference* focusing on the following:

- Pedagogical and discipline-based research on STEM teaching and/or learning.
- Research on the efficacy of professional development models
- Preservice education
- STEM fields of study

CRITERIA: Proposals will be evaluated on the extent that they:

- Align with one or more strand topics.

- Support or identify specific goals from the NRC *Framework*, *NGSS*, or state standards for Mathematics, Computer Science, and Industrial Technology.
- Are based on current and available research and issues in STEM education.
- Demonstrate STEM as an interdisciplinary approach to learning that removes traditional barriers between Science, Technology, Engineering, and Mathematics.
- Are grounded in cultural competency (promotes equity, demonstrates the value of diversity, and addresses the impact of bias)

Of particular interest is research that addresses underrepresented/underprepared students as well as proposals with research that is applicable to all levels of college science teaching.

Unconference: *Challenges and Strategies: An Unconference for Teaching Postsecondary Students*

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