

National Dialogue on Transforming STEM Teaching Evaluation in Higher Education

January 14-27, 2021

*Roundtable on Systemic Change in Undergraduate STEM Education
of the National Academies of Sciences, Engineering, and Medicine*

Transforming STEM Teaching Evaluation in Higher Education

Noah Finkelstein, University of Colorado, Boulder

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

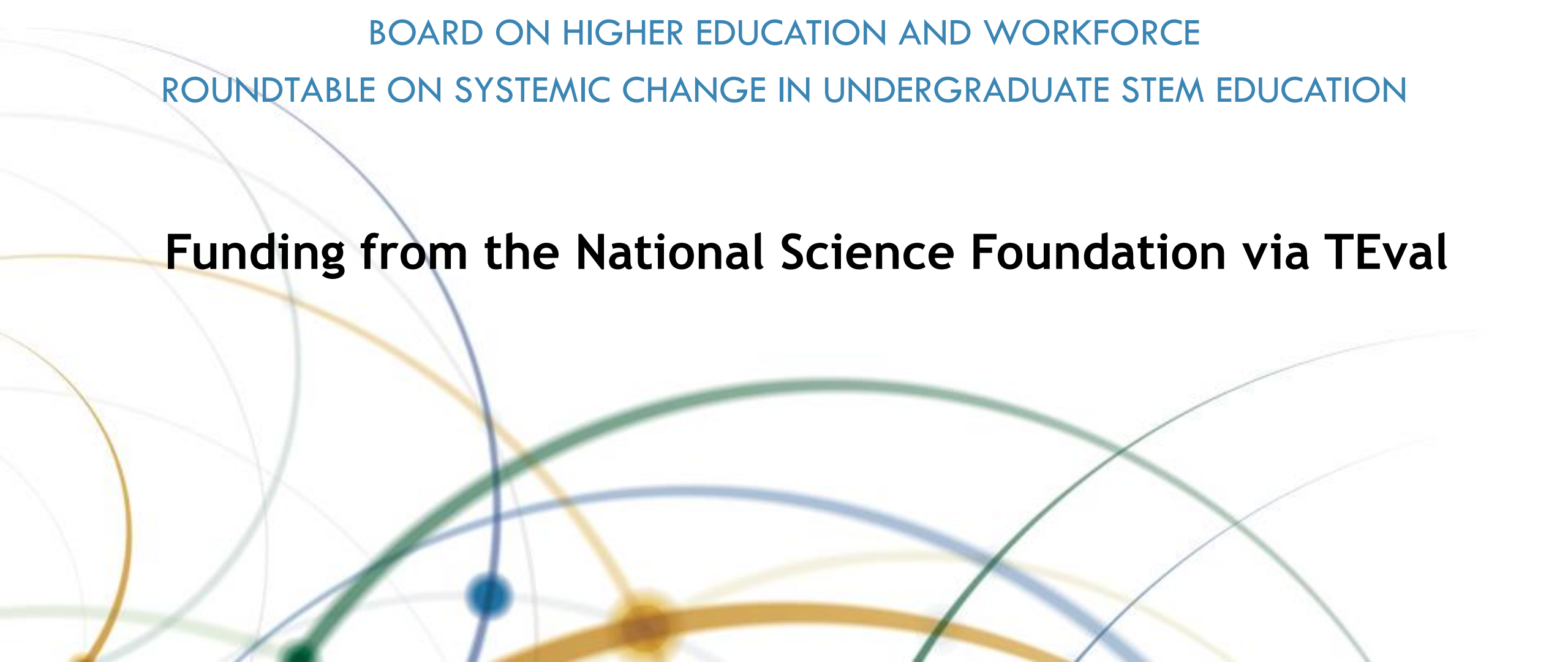


BOARD ON SCIENCE EDUCATION

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ROUNDTABLE ON SYSTEMIC CHANGE IN UNDERGRADUATE STEM EDUCATION

Funding from the National Science Foundation via TEval



Planning Group

Ann Austin, Michigan State University

Christine Broussard, University of LaVerne

Noah Finkelstein, University of Colorado, Boulder

Andrea Follmer Greenhoot, University of Kansas

Emily Miller, Association of American Universities

Gabriela Weaver, University of Massachusetts, Amherst

NASEM Staff

Kerry Brenner

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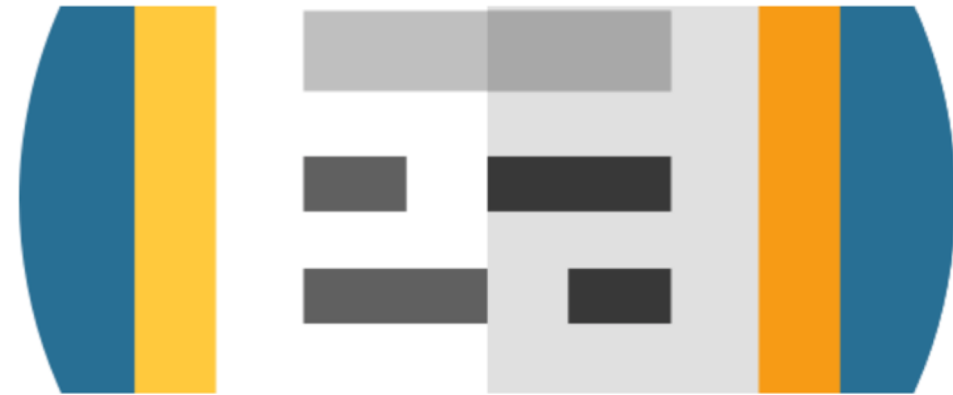
Beth Sumerlin

Heidi Schweingruber

Campus Context for Efforts to Transform Teaching Evaluation



January 14-17



January 19-22

Cross-cutting Challenges and Opportunities to Improving Teaching Evaluation

January 27, 1:00-4:00pm EST

Today's Plan

- | | |
|------------|---|
| 1:00 pm ET | Re-introductions/ Cross-cutting Challenges and Opportunities to Improving Teaching Evaluation |
| 1:10 pm ET | Panel Discussion / Reflection |
| 1:40 pm ET | Thematic Discussions with Report Out and Synthesis |
| 3:10 pm ET | Campus Perspective Panel |
| 3:40 pm ET | Conclusion & Next Steps |

Thematic Breakout Discussion Topics

Topic A. Engaging more people in campus conversations

Topic B. Aligning new approaches, policies, and reward structures

Topic C. Making evaluation more equitable for faculty

Topic D. Thinking about the impacts of COVID on faculty evaluation

Choose your preferred topic by adding *A, *B, *C or *D to the front of your name.

- E.g., *B Noah Finkelstein

Transforming Teaching Evaluation

- Definition of teaching effectiveness
 - Full range of learners
 - Equitable, Inclusive, Effective, Evidence-based practices
 - Full range of outcomes
- What elements of teaching to evaluate?
- Whose voices and which data?

Learners

Community

Processes

Language

Purpose

Cross-cutting Challenges and Opportunities to Improving Teaching Evaluation

Pat Hutchings Senior Scholar, BayView Alliance, and
Senior Scholar, National Institute for
Learning Outcomes Assessment

Mark Lee Associate Professor of Biology and
Trustee, Spelman College

Victoria Sork Professor of Ecology and Evolutionary
Biology, University of Calif, Los Angeles

Transforming Teaching Evaluation Instructions for Breakout Groups

- Ann Austin, Michigan State University
- **Andrea Follmer Greenhoot**, University of Kansas

Transforming Teaching Evaluation

Thematic Breakout Discussions: Goals

Jan 14

Opening Plenary:

Highlight issues of importance to frame learning and dialogue



Jan 15-22

Discussion Forum & Interactive Project Showcase:

Delve into campus efforts



Today

Closing Plenary: Thematic Breakouts

Broader discussion of big questions, envision next steps

Thematic Breakout Discussions: Topics

Topic A. Engaging more people in campus conversations

Topic B. Aligning new approaches, policies, and reward structures

Topic C. Making evaluation more equitable for faculty

Topic D. Thinking about the impacts of COVID on faculty evaluation

If you haven't done so yet, choose preferred topic by adding *A, *B, *C or *D to the front of your name.

- E.g., *B Noah Finkelstein

Thematic Breakout Discussion: Instructions

- You will get an invitation to a breakout room: remember your **group #** (there are multiple groups per topic)
- Go to the google slide that **corresponds to your group #** (link to slide deck is in chat)

Topic A. Engaging more people in campus conversations (1-3)

Topic B. Aligning new approaches, policies, and reward structures (4-6)

Topic C. Making evaluation more equitable for faculty (7-9)

Topic D. Thinking about the impacts of COVID on faculty evaluation (10-12)

In Breakout Rooms (until 2:30ET)

1. Identify a Facilitator and Recorder/Reporter
2. Discuss guiding questions (30 min)
3. Identify 3 action steps (15 min)

Record notes in google slide
Be prepared to share action steps

These instructions and the guiding questions are in your google slide.

Thematic Breakout Discussions

Report Out and Synthesis

Topic A. Engaging more people in campus conversations (1-3)

Topic B. Aligning new approaches, policies, and reward structures (4-6)

Topic C. Making evaluation more equitable for faculty (7-9)

Topic D. Thinking about the impacts of COVID on faculty evaluation (10-12)

Each Reporter has 1 minute to share an action step from their group.

Campus Perspectives on Transforming STEM Teaching Evaluation in Higher Education

Panelists

Annette Parker, President, South Central College

Laurie Leshin, President, Worcester Polytechnic Institute

Joan Ferrini-Mundy, President, University of Maine

Moderator: Gabriela Weaver, University of Massachusetts, Amherst

Continuing the National Dialogue on Transforming Teaching Evaluation

- **Christine Broussard**, Chair, Natural Science Division,
University of La Verne
- **Emily Miller**, Associate Vice President for Policy,
Association of American Universities
- **Heidi Schweingruber**, Director, Board on Science Education,
National Academies of Sciences, Engineering, and Medicine

Participant Input

- Reflecting on the series of events, what promising idea, action, or step resonated with you and you believe could be a strong starting point on your campus to transform teaching evaluation?

Question for Participants

What are key factors that need to be central to further national work on reimagining faculty reward structures?

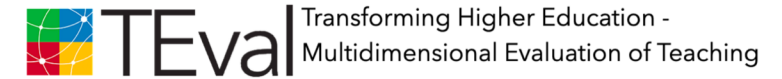


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Accelerating Systemic Change in STEM Higher Education

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Teaching Evaluation Collective

What Can I Do?

- **Contribute** your framework, tools, approaches to a national repository OR **Use** the national repository to inform your efforts
 - ASCN February 2021 interactive repository launch
 - <https://ascnhighered.org/index.html>
- **Join** a Community of Practice/Transformation
 - ASCN Spring 2021
- **Join** Continuing Discussions at National Meetings:
 - June 9-11, 2021 for the ASCN/NSEC [Transforming Institutions Conference](#)! Online. Featuring a thread on transforming teaching evaluation. Call for proposals opens next week.
 - Fall 2021 (dates TBD): [TEval/ Transforming Teaching Evaluation](#) Knowledge Exchange workshop - An opportunity to showcase / share resources.
- **Support** the call for a consensus study by the National Academies and add your perspective, initiatives, and research to the invited public comments
- **Follow** the work of NASEM Board on Science Education and lend your voice to the work.
<https://www.nationalacademies.org/bose/board-on-science-education>
- **Spread** the word, the work, and the community

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