

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

Roundtable on Systemic Change in Undergraduate STEM Education

Meeting 2 Agenda

Keck Center Room 100

500 5th Street, NW

Washington, DC 20001

May 14-15, 2018

DAY 1: Monday, May 14, 2018

- 4:00 pm **Welcome**
Heidi Schweingruber and Tom Rudin, National Academies
- 4:10 pm **Discussion of Roundtable Mission**
Ann Austin and Mark Rosenberg, Co-Chairs
- Recap of Meeting 1 and Goals for Meeting 2
 - Roundtable Mission and Work Plan
- 4:40 pm **Thoughts from our Sponsor**
Mercedes Talley, Keck Foundation
- 4:50 pm **Thinking Outside the Box on Undergraduate STEM Education: A Fireside Chat**
Salim Ismail, Founding Executive Director of Singularity University
Mark Rosenberg, Florida International University
- 5:50 pm **Introduction of after dinner activity**
Small group work to expand on the changes identified at meeting #1 that impact our thinking about undergraduate STEM education. Use these topics to brainstorm questions for tomorrow's panelists.
- *Changes in technology,*
 - *Workforce needs,*
 - *Demographic shifts*
 - *Expanding knowledge of learning process*
 - *Availability and use of big data*
- social justice/equity/inclusion as a crosscutting theme for all groups*
Moderator: Ann Austin
- 6:00 pm **Dinner (Atrium)**
- 7:15 pm **Context for Roundtable Work**
Go straight to break out rooms at 7pm to start on assignment above at 7:15
- 8:00 pm **Reporting Back**
Moderator: Ann Austin
- 8:15 pm Adjourn

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DAY 2: Tuesday, May 15, 2018

- 8:00 am Breakfast Available
- 8:30 am **Welcome, Ann Austin and Mark Rosenberg, Co-Chairs**
Reflections on Day 1, plans for Day 2
- 8:45 am **Implications for undergraduate STEM education of changes in societal context**
Panel Discussion
Gabriela Weaver, University of Massachusetts, Amherst
Juan E. Gilbert, University of Florida
David Goldston, MIT Washington D.C. Office
Moderator: Ann Austin
- 10:45 am Break
- 11:00 am **What should the roundtable accomplish by 2021?**
Introduction of “Abstract Pitch Session”
Moderator: Mark Rosenberg
- 11:10 am **Pitch Session and Development**
Work individually or in small groups to Prepare for Pitch Session (25 minutes)
- Develop a 3-minute pitch speech for a potential roundtable activity.
 - Pitch should include:
 - Short title for your idea
 - Explanation of the topic
 - What are the issues and key questions?
- Sharing of 3-Minute Pitch Speeches
- 12:15 pm **Voting and Instructions for Lunchtime work**
Top 5 vote getters determine topics for lunch break out sessions
LUNCHTIME ASSIGNMENT:
- Prepare a plan for a 10-minute pitch
 - How would this idea be carried forward by the roundtable?
 - What are the intended outcomes?
 - Who would the audience be and who would be involved (panelists, leaders, organizers, etc.)?
- 12:30 pm **Working Lunch** in small groups in break out rooms
Work on assignment above on topics selected by voting
- 1:15 pm **10-Minutes Pitch Sessions by each of the 5 groups**
5 minutes for Q&A about each pitch
Moderator: Ann Austin
- 2:30 pm **Reflections and next steps**
Moderator: Mark Rosenberg
- 3:00 pm **Adjourn**