

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 <i>Heidi Schweingruber and Tom Rudin, National Academies</i>
4:10 pm	Discussion of Roundtable Mission <i>Ann Austin and Mark Rosenberg, Co-Chairs</i> <ul style="list-style-type: none">• Recap of Meeting 1 and Goals for Meeting 2• Roundtable Mission and Work Plan
4:40 pm	Thoughts from our Sponsor <i>Mercedes Talley, Keck Foundation</i>
4:50 pm	Thinking Outside the Box on Undergraduate STEM Education: A Fireside Chat <i>Salim Ismail, Founding Executive Director of Singularity University</i> <i>Mark Rosenberg, Florida International University</i>
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. <ul style="list-style-type: none">• <i>Changes in technology,</i>• <i>Workforce needs,</i>• <i>Demographic shifts</i>• <i>Expanding knowledge of learning process</i>• <i>Availability and use of big data</i> <i>social justice/equity/inclusion as a crosscutting theme for all groups</i> <i>Moderator: Ann Austin</i>
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 <i>Moderator: Ann Austin</i>
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 <i>Reflections on Day 1, plans for Day 2</i>
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 <i>Moderator: Ann Austin</i>
10:45 am	Break
11:00 am	What should the roundtable accomplish by 2021? Introduction of “Abstract Pitch Session” <i>Moderator: Mark Rosenberg</i>
11:10 am	Pitch Session and Development Work individually or in small groups to Prepare for Pitch Session (25 minutes) <ul style="list-style-type: none">• Develop a 3-minute pitch speech for a potential roundtable activity.• Pitch should include:<ul style="list-style-type: none">◦ 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 <i>Top 5 vote getters determine topics for lunch break out sessions</i> LUNCHTIME ASSIGNMENT: <ul style="list-style-type: none">• 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 <i>Moderator: Ann Austin</i>
2:30 pm	Reflections and next steps <i>Moderator: Mark Rosenberg</i>
3:00 pm	Adjourn