

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

Roundtable on Systemic Change in Undergraduate STEM Education

Spring 2020 Meeting

AGENDA

May 13 & May 14

Day 1/May 13

Zoom link

<https://nasem.zoom.us/j/94490480996?pwd=R0ZHenN2WDI3aW50Z2ZpMG1jdnNydz09>

Password: 128635

10:30am **Welcoming Remarks and Meeting Goals**
EDT Ann Austin

We will hear some new ideas from our keynote speaker and reflect upon them in light of the what have we learned during our roundtable meetings and from the work group efforts over the last couple years.

We will build on those ideas to develop some ideal scenarios for the future of undergraduate STEM education. The scenarios will serve as a tool for helping us think broadly about how to get to a desirable future, specifically how the roundtable can play a role, and what that means for our work over the next year.

10:45am **Technology and Innovation for Whom?**
Opening Keynote: Mark Rosenberg, moderator
[Shobita Parthasarathy, University of Michigan](#)

How do race, gender, and class relate to the development and impact of technology and innovation?

11:30am **Undergraduate STEM Education and Changes in Society and Technology**
Panel Discussion: Mark Rosenberg, moderator
Roundtable members Eric Schulze and Patty Lopez

How can STEM learners be prepared for work, citizenship, and daily life in light of changes in technology, globalization, environmental stress and climate change, health threats trends and other developments?

12:00pm **A More Inclusive Higher Education Experience in STEM**
Panel Discussion, Ann Austin, moderator
Roundtable members Lynn Pasquerella and John Lee

How can higher education improve in order to create more inclusive STEM educational experiences for learners who are first generation college students, students from lower SES, students from populations historically excluded from STEM, adult students, students working full time, students who are caregivers, students without good internet access, etc.?

12:30pm **Adjourn**

DAY 2/May 14

Zoom link

<https://nasem.zoom.us/j/92669734823?pwd=L0hiaFJ3STBBOXdIc1k1NXQ2QWRQOT09>

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10:30am Opening remarks, Instructions for Day 2

Mark Rosenberg, moderator

- After some full group discussions focused on students, we will return to the same groups as yesterday to think about specific feasible roundtable actions that could make a contribution to moving us from today to ideal.
- Based on what we have discussed yesterday, as well as ideas from earlier Roundtable meetings, groups will identify specific actions/projects the roundtable could do in the next year or so to help the community make these changes.
- One reporter from each group will then share their ideas for Roundtable actions to the full Roundtable.

10:45am Reflections on Day 1

Ann Austin, moderator

Comments by Roundtable members Mica Estrada and Susan Singer

11:00am Meeting Students Where They Are and Where They Will Be

Short Presentations and Panel Discussion Ann Gates, moderator

What is needed to address the changing needs of students? Would changes to the thinking about educational and career pathways make undergraduate STEM education welcoming for more potential students?

Speakers:

[Bryan Dewsbury, University of Rhode Island](#)

[Kassy Holmes, Valencia College](#)

[Scott Auerbach, University of Massachusetts, Amherst](#)

12:15 pm Adjourn