

Building STEM Ecosystems for Our Communities

Roundtable on Systemic Change in Undergraduate STEM Education

October 19, 2023

Lecture Room, National Academy of Sciences

THURSDAY, OCTOBER 19, 2023 · OPEN SESSION

Purpose

- Explore existing and potential connections between academia and partners in our communities that could help to improve STEM learning and understanding and advance societal benefit.

11:00–11:05 Welcome and Framing for Open Session

Mark Mitsui, Roundtable Co-Chair, *Portland Community College (Emeritus)*

11:05–11:45 The Complexity of STEM Ecosystems

Presenter: **Howard Gobstein**, *Association of Public & Land-grant Universities*

Respondents: To Be Announced

11:45–12:00 Q&A

12:00–12:30 Examples of STEM Partnerships or Ecosystems

Moderator: **Susan Singer**, *St. Olaf College*

Panelists:

Paul Plotkowski, *Grand Valley State University*

Kaitlin Maguire, *Boise State University*

Rebecca Stanley, *RTI International, Defense STEM Education Consortium (DSEC)*

12:30–12:45 Q&A

12:45–12:50 Instructions for Working Lunch in Break-Out Groups

Ann Austin, Roundtable Co-Chair, *Michigan State University*

12:50–1:00 Pick Up Lunch in East Court

1:00–2:00 Working Lunch & Discussion: What Makes a Healthy STEM Ecosystem?

Participants will be divided into small groups for informal lunch discussions on forming and sustaining ecosystems.

2:00–2:15 Break

2:15–2:45 Fostering Connections between Higher Education and Employers

Moderator: **Mark Mitsui**, Roundtable Co-Chair, *Portland Community College (Emeritus)*

Presenters:

Michelle Van Noy, *Rutgers University Education and Employment Research Center*

Victoria Coty, *Rutgers University Education and Employment Research Center*

2:45–3:00 Q&A

3:00–3:30 Panel Discussion: How Can Academia Connect with Community and Employers to Help Build STEM Ecosystems?

Moderator: **Dale Winkler**, *Southern Regional Education Board (SREB)*

Panelists:

Ryan Kelsey, *Urban Institute*

Kristine Callis-Duehl, *Danforth Plant Science Center*

Jennifer Purcell, *Future Ready Oregon, Oregon Higher Education Coordinating Commission*

3:30–3:45 Q&A

3:45–3:50 Instructions for Break Out Discussion

Ann Austin, Roundtable Co-Chair, *Michigan State University*

4:00–4:30 Break Out Discussion

Participants will reflect on panels and presentations in small groups, with discussion focused on the following questions:

- What are key contributions that various stakeholders can make to building/nurturing an effective STEM ecosystem?
- What would help stakeholders be more effective partners?

4:30–5:00 Reporting Back from Break Out Groups

5:00–7:00 Poster Session and Dinner

ADJOURN OPEN SESSION