

Roundtable on Systemic Change in Undergraduate STEM Education

Connections Between Postsecondary Education and Workforce Preparation

May 15, 2023 – National Academy of Sciences and Virtual



Purpose

- Explore the relationship of postsecondary education and workforce preparation, including how we can better help students understand the connections between education and work, what makes a postsecondary program good at preparing students for the workforce, and what we see as the role and responsibility of institutions of higher education in preparing students for life and careers.
- Hear about the work group listening tour and outcome of the priority setting exercise.
- Meet about next steps for work group action following the update on the listening tour.

MONDAY, MAY 15, 2023 (OPEN SESSION)

11:00–11:15 **Welcome and Overview of Meeting**

11:15–12:00 **Panel Discussion**

What do we Know about the STEM Workforce of Today and What is to Come?

Matt Sigelman, *President, The Burning Glass Institute*

Patricia Leonard, *Vice President of Strategic Partner and Business Development, Credly*

David Soo, *Vice President for Strategic Engagements, Jobs for the Future*

Moderator: Noah Finkelstein, Professor of Physics, University of Colorado Boulder

12:00–01:00 **Panel Discussion**

Creating Bridges between Academia and Employers

Carrie Weikel-Delaplane, *Program Dean, Portland Community College*

Evelyn Kent, *Director of HBCU/MI Program and Outreach at Office of the Undersecretary of Defense for Research and Engineering (Research, Technology and Laboratories), Department of Defense*

Allen Delong, *Senior Associate Dean for Purposeful Work, Bates College*

Alexander (Zan) Donovan, *Vice President for Product Strategy, Wiley*

Moderator: Kyle Swanson, Dean of the College of Sciences, Metropolitan State University

1:00–2:00

Lunch

Breakout Groups with Employers

2:00–3:00

Panel Discussion

What is the role of governing boards and trustees in institutional efforts to strengthen STEM undergraduate education and make it more equitable?

Felecia Commodore, Associate Professor, Department of Educational Foundations & Leadership, Old Dominion University

Merrill Schwartz, Senior Vice President for Content and Program Strategy, Association of Governing Boards

Beverly Seay, Board chair, Association of Governing Boards and Trustee emerita, University of Central Florida

Jee Hang Lee, President & CEO, Association of Community College Trustees

Moderator: **Mark Lee**, Associate Professor, Spelman College

3:00–4:00

Panel Discussion

Employer Role in Helping Students Understand Work and in Developing the Future Workforce

Jaime Curtis-Fisk, Senior R&D Leader of Analytical Science, The Dow Chemical Company

Kris Ward, Sr. Director of Strategy & Business Development, SME

Aprille Joy Ericsson, New Business Lead for Instrument Systems and Tech. Division, NASA

Moderator: **Mark Mitsui**, Co-chair of Roundtable on Systemic Change in Undergraduate STEM Education and recently retired president of Portland Community College

4:00–4:15

Break

4:15–5:15

Breakout Discussion on Mission of Higher Education

Mission of Higher Education

5:15–5:45

Synthesis and Wrap-up Remarks

END OF DAY 1