

Exploring and Mapping the System of Undergraduate STEM Education

Roundtable on Systemic Change in Undergraduate STEM Education

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Meeting ID
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MONDAY, OCTOBER 24, 2022

Purpose

Discuss undergraduate STEM education by examining interactions between various levels (classroom, department, institution, state system, etc.) and various stakeholders (students, educators, employers, community, funders, accreditors, etc.).

1:00–1:05 Welcome from the National Academies

1:05–1:15 Roundtable's Mission and View of the System of Higher Education
Goals and Themes

1:15–1:20 Interacting Components of the System
Levels, Levers, and Actors

1:20–1:25 Overview of Agenda

1:25–2:25 Creating Better Postsecondary STEM Learning Environments
Potential Actions at the Classroom, Institutional, and National Levels
Moderator: Andrea Follmer (Greenhoot), *Director of the Center for Teaching Excellence, University of Kansas*

Panelists:

Kadian Callahan, *Assistant Dean for Faculty and Student Success, College of Science and Mathematics, Kennesaw State University*

Jeffrey Osborn, *Provost and Vice President of Academic Affairs, The College of New Jersey*

Viji Sathy, *Professor of Psychology and Neuroscience, University of North Carolina, Chapel Hill*

Nancy Zimpher, *Senior Fellow, National Association of System Heads*

2:25–2:45 Break

Light refreshments will be provided

2:45–3:45 Thinking Broadly about the STEM Skills in the Workforce and How to Prepare Students

Moderator: Patty Lopez, *Intel Encore Computer Science Fellow in Residence, New Mexico State University*

Panelists:

Nick Moore, *Education Policy Advisor & Coordinator of the Governor's Office of Education & Workforce Transformation in Alabama*

Sanjay Rai, *Senior Vice President of Academic Affairs, Montgomery College*

Kimberly Riegel, *Assistant Professor of Physics, Farmingdale State College*

3:45–3:50 Instructions for Breakout Sessions

3:50–4:30 Breakout Sessions

- Classroom
- Institution
- National

4:30–4:45 Break

Light refreshments will be provided

4:45–5:00 Reporting Back from Breakout Sessions

5:00–5:40 Integrating Course-Based Undergraduate Research Experiences into the Curriculum

A Case Study of Change in Postsecondary Learning at an HBCU

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

Panelists:

George Ude, *Chair and Professor, Department of Natural Sciences, Bowie State University*

Chimdimnma Esimai, *CURE Program Manager, Bowie State University*

5:40–5:50 Highlighting Interesting Examples Submitted During Breakout Sessions

5:50–6:00 Synthesis and Wrap-Up Remarks

MEETING ADJOURNS