

Exploring and Mapping the System of Undergraduate STEM Education

Roundtable on Systemic Change in Undergraduate STEM Education

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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*
Chimdimma 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