

National Academies of Sciences, Engineering, and Medicine
Board on Science Education

Indicators for Monitoring Undergraduate STEM Education: A Public Discussion

**National Academy of Sciences Building, Lecture Room
2101 Constitution Avenue, NW, Washington, D.C. 20418
Lecture Room**

March 26, 2018

10:30 Registration (coffee and light breakfast available in meeting room)

10:45 Welcome
Heidi Schweingruber, Director, Board on Science Education

11:00 Session 1: Report Overview and Response
Heidi Schweingruber, Board on Science Education, Moderator

- Overview (15 minutes)
Margaret Hilton, Board on Science Education
Heather Belmont, Miami Dade College, Committee Member
Mark B. Rosenberg, Florida International University, Committee Chair
- Responses (15 minutes each)
Kimberly Griffin, University of Maryland
Deborah Santiago, Excelencia in Education
- Questions from the Audience, Discussion (15 minutes)

12:00 Session 2: Goal 1: Mastery of STEM Concepts and Skills
Mark B. Rosenberg, Florida International University, Moderator

- Evidence-based Educational Practices for STEM Learning (15 minutes)
Gabriela Weaver, University of Massachusetts-Amherst, Committee Member
- Responses (15 minutes each)
Noah Finkelstein, University of Colorado
Kacy Redd, Association of Public and Land-Grant Universities
- Questions from the Audience, Discussion (15 minutes)

1:00 Lunch

1:45 Session 3: Availability of Data for Indicators
Heather Belmont, Miami Dade College, Moderator

- Overview of Data Availability (10 minutes)
Mark Connolly, University of Wisconsin, Committee Member
- Responses (10 minutes each)
Amanda Janice Roberson, Institute for Higher Education Policy
John Armstrong, State Higher Education Officers Association

Nicole Ifill, The Bill and Melinda Gates Foundation

- Questions, discussion (20 minutes)

2:45 Session 4: Options for Obtaining Indicator Data

Mark B. Rosenberg, Florida International University, Moderator

- Overview of 3 options (15 minutes)
Charles Blaich, Wabash College, Committee Member
- Responses (15 minutes each)
Ben Miller, Center for American Progress
Richard Reeves, National Center for Education Statistics
- Questions from the Audience, Discussion (15 minutes)

3:45 Next Steps for Developing Indicators

Mark Connolly, University of Wisconsin, Moderator

- Perspectives on Next Steps
Mark B. Rosenberg, Florida International University (5 minutes)
John Armstrong, State Higher Education Executive Officers Association (5 minutes)
- Final Questions and Comments from the Audience (5 minutes)

4:00 Adjourn