

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

Committee on Developing Indicators for Undergraduate STEM Education

Meeting October 6, 2016

NAS Building, 2101 Constitution Avenue, NW 20418

Auditorium

Agenda

Thursday, October 6th

Open Sessions: Meeting for Public Comment

- 9:00 am Welcoming Remarks and Meeting Goals
Heidi Schweingruber, Director, Board on Science Education
Mark B. Rosenberg, Florida International University, Chair, Committee on Developing Indicators for Undergraduate STEM Education
- 9:10 Reflections on The Indicators Study and the Related Report, *Monitoring Progress Toward Successful K-12 STEM Education* (NRC, 2013)
Adam Gamoran, William T. Grant Foundation and Chair, Board on Science Education
Susan Singer, Rollins College
- Adam Gamoran presentation (15 minutes)
 - Susan Singer presentation (15 minutes)
 - Discussion, Q&A with the committee only (15 minutes)
- 9:55 Community College Perspectives on the Draft
Annette Parker, South Central College, Minnesota
- Presentation (20 minutes)
 - Discussion, Q&A with the committee only (15 minutes)
- 10:30 Break
- 10:45 Reflections on the Draft from STEM Reform Initiatives
Linda Slakey, University of Massachusetts, Amherst and Convener, Coalition for Reform of Undergraduate STEM Education (by WebEx)
Kacy Redd, Association of Public and Land-Grant Universities
- Linda Slakey presentation (15 minutes)
 - Kacy Redd presentation (15 minutes)
 - Discussion, Q&A with the committee only (15 minutes)
- 11:30 Open Session for Public Comments and Questions
- 12:15 pm Lunch
- 1:00 Reflections on the Report from an Institutional Perspective
Susan Ambrose, Northeastern University, Boston, Massachusetts

- Presentation (20 minutes)
 - Discussion, Q&A with the committee only (10 minutes)
- 1:30 Implications of the Draft for Improving Teaching and Learning
Jillian Kinzie, Indiana University
- Presentation (15 minutes)
 - Discussion, Q&A with the committee only (15 minutes)
- 2:00 Open Session for Public Comments and Questions
- 2:45 Break
- 3:00 Implications of the Draft for Measuring and Improving Equity in Undergraduate STEM
Mica Estrada, University of California, San Francisco (by WebEx)
Deborah Santiago, Excelencia in Education
- Presentations (15 minutes each)
 - Discussion, Q&A with the committee only (15 minutes)
- 3:45 Reflections on the Day
Lee Zia, NSF Division of Undergraduate Education
- Presentation (10 minutes)
 - Discussion, Q&A with the audience only (10 minutes)
- 4:05 Final Remarks
Mark B. Rosenberg, Florida International University, Chair, Committee on Developing Indicators for Undergraduate STEM Education
- 4:15 Adjourn Public Meeting

Notice Regarding Open Sessions

This meeting is being held to gather information to help the committee conduct its study. This committee will examine the information and material obtained during this, and other public meetings, in an effort to inform its work. Although opinions may be stated and lively discussion may ensue, no conclusions are being drawn at this time; no recommendations will be made. In fact, the committee will deliberate thoroughly before writing its draft report. Moreover, once the draft report is written, it must go through a rigorous review by experts who are anonymous to the committee; the committee then must respond to this review with appropriate revisions, and the report must adequately satisfy the Academy's Report Review committee and the chair of the NRC before it is considered an NRC report. Therefore, observers who draw conclusions about the committee's work based on today's discussions will be doing so prematurely.

Furthermore, individual committee members often engage in discussion and questioning for the specific purpose of probing an issue and sharpening an argument. The comments of any given committee member may not necessarily reflect the position he or she may actually hold on the subject under discussion, to say nothing of that person's future position as it may evolve in the course of the project. Any inference about an individual's position regarding findings or recommendations in the final report is, therefore also premature.

In addition to meetings, the committee may also solicit input from experts through other mechanisms such as electronic mail and white papers. Input from the general public is welcome, through one or both of these formats as well.

Questions about this meeting should be directed to Margaret Hilton, Study Director, at mhilton@nas.edu.