

**THE NATIONAL ACADEMIES
NATIONAL RESEARCH COUNCIL
NATIONAL ACADEMY OF ENGINEERING
BOARD ON SCIENCE EDUCATION
BOARD ON HIGHER EDUCATION AND WORKFORCE**

**BARRIERS AND OPPORTUNITIES IN COMPLETING 2- AND 4-YEAR STEM DEGREES
Committee Meeting 2**

**NAS Building
2100 Constitution Ave NW
Room 120
Washington, DC**

**PUBLIC AGENDA
November 12-13, 2013**

Tuesday, November 12

CLOSED SESSION

8:30 a.m. – 10:00 a.m.

OPEN SESSION

10:15 a.m. Welcome and Overview of the Meeting
Shirley Malcom, Study Chair

BARRIERS AND OPPORTUNITIES

10:30 a.m. Mathematics
Moderator
Uri Treisman, University of Texas
Speakers
David Bressoud, Macalester College
Steven Ritter, Carnegie Learning
Lou Gross, University of Tennessee

12:15 p.m. Small group discussion with presenters (Lunch Served)

1:00 p.m. Cost of STEM Degree
Moderator
Frank Dobbin, Committee Member, Harvard University
Speakers
Rita Kirshstein, American Institute of Research, Delta Cost Project
Casey E. George-Jackson, University of Illinois

2:00 p.m. Break

CLOSED SESSION

2:15 p.m. – 7:30 p.m.

Wednesday, November 13

CLOSED SESSION

8:30 a.m. – 9:30 a.m.

OPEN SESSION

9:45 a.m. Welcome to Day 2
Shirley Malcom, Study Chair

9:55 a.m. Authentic STEM Experiences
Moderator
Tabbye Chavous, Committee Member
Speakers
Kevin Eagan, UCLA
Elizabeth Ambos, Council on Undergraduate Research
Phillip Bowman, University of Michigan

11:30 p.m. Small Group Discussions with Presenters (Lunch Served)

12:15 p.m. Systems Approach to Improving Undergraduate STEM Instruction
Moderator
Adrianna Kezar, Committee Member
Speakers
Karan Watson, Provost Texas A&M
Ann Austin, Michigan State University
Ellen Goldey, Wofford
Robert Hilborn, American Association of Physics Teachers

2:00 p.m. Break

CLOSED SESSION

2:15 p.m. – 3:30 p.m.