

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

Workshop on BARRIERS AND OPPORTUNITIES IN COMPLETING 2- AND 4-YEAR STEM DEGREES

Beckman Center
Irvine, CA
Day 1: Huntington Room
Day 2: Auditorium

Via WebEX

Day 1

<https://nationalacademies.webex.com/nationalacademies/j.php?ED=232473657&UID=501354477&RT=MiM0>

Day 2

<https://nationalacademies.webex.com/nationalacademies/j.php?ED=232474067&UID=501354477&RT=MiM0>

AGENDA

January 21 - 22, 2014

TUESDAY, JANUARY 21 (Huntington Room)

CLOSED

8:30 – 1:00 pm

OPEN

1:30 – 1:45 pm **Welcome and overview of committee process and workshop**

Presenter

- Shirley Malcom, Director Education and Human Resources Programs, Committee Chair

DEFINING GOALS, OUTCOMES, AND METRICS

1:45 – 3:00 pm **Foundation and Industry Panel Discussion**

Moderator

- Peter Bruns, retired, former VP at Howard Hughes Medical Institute, Committee Member

Panel Members

- Ryan Kelsey, Helmsley Trust ([Briefing Materials](#))
- Mercedes Talley, W.M Keck Foundation ([Briefing Materials](#))
- Mary Beth Oyer, Lockheed Martin
- Dale Ramezani, Corporate & University Relations Group, formerly with The Boeing Corporation

3:00 – 4:15 pm **National Associations Panel Discussion**

Moderator

- George Boggs, President and CEO Emeritus, American Association of Community Colleges, Committee Member

Panel Members

- Emily Miller, American Association of Universities ([Briefing Materials](#))
- Kacy Redd, Association of Public and Land-grant Universities ([Briefing materials](#))
- Steve Barkanic: Business Higher Education Forum ([Briefing materials](#))
- Muriel Poston: Pitzer College, Project Kaleidoscope Advisory Board, Committee Member ([Briefing Materials](#))

4:15 – 4:45 pm Summary and Adjourn

Moderator

- Michael Feder, National Research Council, Committee Director

Discussant

- Shirley Malcom, Committee Chair

WEDNESDAY, JANUARY 22 (Auditorium)

OPEN

8:00 – 8:30 am Welcome and Coffee (Court Yard)

8:30 – 10:15 am Data on and for Persistence in Undergraduate STEM Majors

Moderator

- Sylvia Hurtado, UCLA, Committee Member

Presenters

Pathways into STEM degrees at 4-year

- Kevin Eagan, UCLA

Pathways into STEM degrees at 2-year

- Michelle Van Noy, Rutgers University, Committee Member

Pathways into STEM degrees at for-profit institutions

- Kevin Kinser, University of Albany, SUNY ([Briefing Material](#))

Monitoring and supporting persistence to STEM degrees

- Marco Molinaro: UC Davis

10:15– 10:25 am Break

10:25– 11:35 am Improving the Culture of STEM Degree Attainment with Co-Curricular Supports

Moderator

- Tabbye Chavous, University of Michigan, Committee Member

Presenters

- Mica Estrada, California State University, San Marcos ([Briefing Material](#))

- Kim Godsoe, Brandeis University

11:35 – 12:20 pm Lunch and Poster Session (Case Examples and Other Guests)

12:20 – 1:20 pm Case Examples of Co-Curricular Supports

Case Examples (Auditorium, the Newport Room, Back Bay Room, and Executive Dining Room)

- Rafael Alvarez, San Diego City College, Math, Engineering, Science Achievement (MESA) Program ([Briefing Materials](#))
- John Matsui: University of Berkeley California, Bio Scholars ([Briefing Materials](#))
- Benjamin Flores: University of Texas El Paso, LSAMP and STEM Talent Expansion Program ([Briefing Materials](#))
- Mark Filowitz: Cal State Fullerton & Cher Carrera: Santa Ana College ([Briefing Materials](#))

1:20 – 1:30 pm Reconvene in Auditorium

1:30 – 3:30 pm Articulation and Transfer

Moderator

- X. Ben Wu, Texas A&M, Committee Member

Presenters

Overview of National, State, and Local Regulations and Policies

- Ken O'Donnell, Associate Dean, Office of the Chancellor, California State University (CSU) ([Briefing Materials](#))

Case Example: Florida's Common Course System and Florida International University

- Elizabeth Bejar: Vice Provost for Academic Affairs, Florida International University ([Briefing Materials](#))

Respondent

- Randy Kimmens, Associate Vice Chancellor for Workforce Development, Maricopa Community Colleges ([Briefing Materials](#))

3:30 – 3:45 pm Break

3:45 – 4:45 pm Creating Systemic Change

Moderator

- Shirley Malcom, Committee Chair

Participants

- Mark Rosenberg, President, Florida International University
- Noah Finkelstein, Professor, Department of Physics, University of Colorado Boulder
- Omar Torres, Division Dean of Mathematics, Sciences, and Engineering, College of the Canyons

4:45 – 5:00 pm Bringing it All Together

Moderator

- Michael Feder, National Research Council, Committee Director

Discussant

- Shirley Malcom, Committee Chair

5:00 pm

Thank you and Adjourn