



AAU Undergraduate STEM Education Initiative

Improving Undergraduate STEM Teaching & Learning: The Role of the Department Chair
April 27-28, 2015

AAAS Building

1200 New York Avenue NW, Washington D.C. 20009
Phone: 202-405-7500

MONDAY, April 27

4:00 – 5:00 p.m.

2nd Floor Foyer

Registration

5:00 – 6:00 p.m.

2nd Floor Auditorium

Welcome & Introduction

Brief history and current status of the AAU Undergraduate STEM Education Initiative

- **Toby Smith**, Vice President for Policy, AAU
- **Emily Miller**, Project Director, AAU Undergraduate STEM Education Initiative

6:00 – 8:00 p.m.

Networking Dinner

Food is not allowed in Auditorium.

TUESDAY, April 28

8:00 – 8:30 a.m.

2nd Floor Foyer

Registration and Breakfast

Please finish breakfast by 8:30 a.m. Food is not allowed in Auditorium.

8:30 – 8:45 a.m.

2nd Floor Auditorium

Welcome: Hunter Rawlings, President, AAU

8:45 – 9:45 a.m.

2nd Floor Auditorium

The department chair as an agent of change to improve STEM Education

Moderator: James Fairweather, Professor, Michigan State University

Panelists:

- **Matthew Ando**, Chair and Professor, Department of Mathematics, Illinois Urbana Champaign
- **Vicki Bautch**, Professor and Department Chair, Department of Biology, The University of North Carolina at Chapel Hill
- **Cori Fata-Hartley**, College of Natural Science, Assistant Dean, Michigan State University
- **Kathryn Miller**, Chairman Department of Biology, Washington University, St. Louis
- **Diane O'Dowd**, HHMI Professor, Developmental & Cell Biology, University of California, Irvine

9:45 – 10:15 a.m.

Break and transition to discussion groups

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10:15 – 11:45 a.m.

2nd and 5th Floors – See Handout

Small Group Discussion: Session I

- All STEM departments teach courses in service to other departments. How are learning objectives established for introductory service courses and courses for department majors?
- What are the benefits and limitations of the various staffing models for introductory STEM courses?

11:45 – 1:15 p.m.

2nd Floor Foyer

LUNCH

The 2nd Floor Foyer, Ravelle, Haskins, Abelson rooms are open for lunch seating.

1:15 – 2:00 p.m.

2nd Floor Auditorium

Reports by Discussion Groups

2:00 – 2:15 p.m.

Break and transition to discussion groups

2:15 – 3:45 p.m.

2nd and 5th Floors – See Handout

Small Group Discussion: Session II

- How do STEM departments assess curricular innovations?
- What are meaningful metrics and indicators for evaluating and rewarding teaching and learning?

3:45 – 4:15 p.m.

Break

4:15 – 5:00 p.m.

2nd Floor Auditorium

Reports by Discussion Groups

5:00 – 5:45 p.m.

2nd Floor Auditorium

A dialogue with a Department Chair and Dean

Moderator: Toby Smith, Vice President for Policy, AAU

Alignment of leadership across the university is necessary to overcome the inherent obstacles to systemic and sustainable change in undergraduate STEM education. Engage in a discussion on how to align and situate department goals within the priorities of the college and the university.

5:45 – 6:00 p.m.

Closing

The Association of American Universities extends its gratitude to The Leona M. and Harry B. Helmsley Charitable Trust, the National Science Foundation, and Elsevier for making this workshop possible through their financial support.