



**AAU Undergraduate STEM Education Initiative
Network Conference**
October 13-14, 2015

Hosted by the Center for Integrative Research on Cognition, Learning, and Education and the Association of American Universities

Location: The Charles F. Knight Executive Education & Conference Center,
Corner of Throop Drive & Snowy Way Drive

TUESDAY, October 13

**8:00, 8:15,
8:30 a.m.**

Shuttles from Clayton Plaza Hotel

8:30 – 9:00 a.m.
Outside Room 200

Registration

Continental breakfast at the Knight Center and Clayton Plaza Hotel for all conference participants

9:00 – 9:30 a.m.
Room 200

Welcome

Provost Holden Thorp, PhD, Washington University in St. Louis

The following presentations and roundtables are structured around the key elements in AAU's Framework for Systemic Change in Undergraduate STEM Teaching and Learning.

9:30 – 10:15 a.m.
Room 200

Pedagogy

Chemical Thinking: A Story of Curricular and Instructional Transformation

John Pollard, Associate Professor of Practice in the Department of Chemistry and Biochemistry, University of Arizona

Understanding and Measuring Project Ownership in Undergraduate Inquiry Based Laboratory Courses

David I. Hanauer, Lead Assessment Coordinator of the SEA-PHAGES Program, Hatfull Laboratory, University of Pittsburgh & Professor of Applied Linguistics, Indiana University of Pennsylvania

10:15 – 10:30 a.m.

Break & Transition to Roundtables

10:30 – 11:30 a.m.

*Room 200, 211, 220, 222,
240, 245, 255, & Boardroom*

Roundtables

- Articulated Learning Goals / Curriculum Redesign
- Educational Practice
- Assessments
- Access

11:30 a.m. – 1:00 p.m.

Main Dining Room 3rd floor

Lunch

1:00 – 1:45 p.m.

Room 200

Scaffolding

Learning Spaces

Jeanne Narum, Principal, Learning Spaces Collaboratory

The Role of Teaching and Learning Centers

Jennifer Frederick, Executive Director, Center for Teaching and Learning, Yale University

1:45 – 2:00 p.m.

Break & Transition to Roundtables

2:00 – 3:00 p.m.

*Room 200, 211, 220, 222,
240, 245, 255, & Boardroom*

Roundtables

- Provide faculty professional development
- Easily accessible resources
- Collect and share data on program performance
- Align future facilities planning

3:00 – 3:15 p.m.

Break & Transition

3:15 – 4:00 p.m.

Room 200

Cultural Change

Excellence in Research and Teaching: Career Pathway Models

Diane O'Dowd, HHMI Professor; Vice Provost, Academic Personnel, University of California, Irvine

Endowed Chairs in STEM Education

Gina Frey, Florence E. Moog Professor of STEM Education, Co-Director, CIRCLE and Executive Director, The Teaching Center, Washington University

4:00 – 4:15 p.m.

Break & Transition to Roundtables

4:15 – 5:15 p.m.

*Room 200, 211, 220, 222,
240, 245, 255, & Boardroom*

Roundtables

- Leadership commitment
- Establish strong measures of teaching excellence
- Align incentives with the expectation of teaching excellence

5:15 – 5:30 p.m.

Main Dining Room, 3rd floor

Break and Set-up for Poster Session

5:30 – 7:30 p.m.

Main Dining Room, 3rd floor

Networking Reception & Poster Session

To allow everyone to have the opportunity to speak with poster authors, we ask that individuals with odd numbered posters staff them from 5:30 – 6:15 p.m. People presenting even numbered posters, please staff them from 6:15 – 7:00 p.m. From 7:00 – 7:30 p.m., all posters are available for display.

**7:15, 7:30,
7:45 p.m.**

Shuttles returning to Clayton Plaza Hotel

**7:30, 7:45,
8:00 a.m.**

Shuttles from Clayton Plaza Hotel

8:00 – 8:30 a.m.
Outside Room 200

Breakfast

8:30 – 8:45 a.m.
Room 200

Opening Remarks

Emily Miller, Director, AAU Undergraduate STEM Education Initiative
Josh Trapani, Associate Vice President for Research and Policy Analysis,
Association of American Universities

8:45 – 10:00 a.m.
Room 200, 220,340

Workshop Time: Measuring Progress

Participants are asked to come prepared to discuss information, data sources, and analytical tools that are currently being used on their campus to inform decision making and measure progress toward systemic change in undergraduate STEM

- Indicators of sustained change at the university
- Department performance indicators
- Effective teaching evaluation approaches

10:00 – 10:15 a.m.

Break and Transition

10:15 – 11:30 a.m.
Room 200

Thinking Bigger – The Science Education Initiative: Results from a Large Scale Experiment in Transforming Teaching throughout Multiple Science Departments

Dr. Carl Wieman, Professor of Physics and of the Graduate School of Education at Stanford University

11:30 – 12:00 p.m.
Room 200

Future Directions of AAU Undergraduate STEM Education Initiative

Emily Miller, Director, AAU Undergraduate STEM Education Initiative
Tobin Smith, Vice President for Policy, Association of American Universities

12:00 – 1:00 p.m.
Main Dining Room, 3rd floor

Closing Lunch