

Improving the Undergraduate STEM Experience



March 13 – 14, 2014

National Academy of Sciences
2101 Constitution Ave., N.W.
Washington, D.C.

Conference Agenda



This conference is hosted by TERC and funded
by the National Science Foundation: #1027418
Innovation Through Institutional Integration (I³)



Thursday, March 13, 2014

8:00-8:30 a.m.	Registration / Light Breakfast / Poster Drop-off	East Anteroom
8:30-8:45 a.m.	Welcome and Introductions <i>Joni Falk, TERC</i>	NAS 125
8:50-10:00 a.m.	Keynote Address: Transforming STEM Education: Where Gladly Will They ALL LEARN <i>Shirley Malcom, Head of Education and Human Resources Programs, AAAS</i> Introduction: <i>Jay Labov, National Research Council</i>	NAS 125
10:00-10:15 a.m.	Morning Break / Light Refreshments	East Anteroom
10:15-11:45 a.m.	Panel of Thought Leaders: Designing & Evaluating Innovation at Different Scales: From Individual Projects to Structural Reform <i>Daniel Goroff, Program Director, Alfred P. Sloan Foundation;</i> <i>Jay Labov, Senior Advisor for Education and Communication, National Research Council;</i> <i>Jeanne Narum, Principal, Learning Spaces Collaboratory; Director Emeritus, Project Kaleidoscope; and Director of the Independent Colleges Office (ICO);</i> <i>Nancy Shapiro, Associate Vice Chancellor for Academic Affairs, University System of Maryland;</i> <i>M.J. Bishop, Director of the Center for Innovation and Excellence in Learning and Teaching (CIELT), University System of Maryland</i>	NAS 125
11:45-12:00 p.m.	Sign-ups for Breakouts	East Anteroom
12:00-1:00 p.m.	Working Lunch / Poster Set up	West Court
1:00-2:15 p.m.	Breakout 1	
	<ul style="list-style-type: none"> • “Paving the Way for Sustainable Change: How Administrative Policies and Practices Impact STEM Innovation,” <i>Nancy Shapiro and M.J. Bishop, facilitators</i> • “Generating Evidence Requires Plans, Not Just Data,” <i>Daniel Goroff, facilitator</i> • Open Sessions, topics nominated at conference 	NAS 125 Boardroom Rooms 280/250
2:30-4:00 p.m.	Breakout 2	
	<ul style="list-style-type: none"> • “Moving from Filters to Pumps in STEM: Restructuring Introductory Undergraduate STEM Courses,” <i>Jay Labov, facilitator</i> • “Constructing Out-of-the-Box, Resilient Environments for Undergraduate STEM Learning Communities,” <i>Jeanne Narum, facilitator</i> • Open Sessions, topics nominated at conference 	Boardroom West Court Rooms 280/250
4:15-6:00 p.m.	Poster Session / Hors d’oeuvres served	West Court
6:00 p.m.	Dinner on your own	

Friday, March 14, 2014

8:00-8:30 a.m.	Light Breakfast	East Anteroom
8:30-8:45 a.m.	Welcome <i>Joni Falk, TERC</i>	NAS 125
8:45-9:45 a.m.	Funders Panel: <i>Visions of Innovation</i> <i>Susan Singer, National Science Foundation;</i> <i>Ryan Kelsey, Helmsley Trust;</i> <i>Cynthia Bauerle, Howard Hughes Medical Institute;</i> Facilitator: <i>Daniel Goroff, Alfred P. Sloan Foundation</i>	NAS 125
9:45-10:10 a.m.	Morning Break / Light Refreshments / Sign-ups for Breakouts	East Anteroom
10:15-11:45 a.m.	Breakout 3: <i>Lessons Learned and Next Steps</i> <ul style="list-style-type: none"> • What are the innovations that have had a significant impact on transforming the STEM student experience (curricular or extracurricular, for majors or for non-majors)? How do we gather effective evidence? • What are the innovations that have had a significant impact on broadening participation in STEM? What is the evidence of effectiveness? • What are the innovative policies or processes that have created cultural change on your campus and have improved STEM teaching and learning? How can we design future programs to collect evidence of effectiveness? • Project Collaboration Meeting Space 	Room 280 Boardroom Room 250 West Court
12:00-12:30 p.m.	Facilitators' Synthesis of Breakout 3 Discussions	NAS 125
12:30-12:50 p.m.	Thought Leader Wrap-up	NAS 125
12:50-1:00 p.m.	Parting Remarks <i>Joni Falk, TERC</i>	NAS 125

