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## CEO message: CEO Updates

1 message

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Reply-To: Coalition for Education and Outreach &lt;education.outreach@lists.berkeley.edu&gt;

To: CEO &lt;education.outreach@lists.berkeley.edu&gt;

*CEO Updates is a bi-weekly newsletter designed to inform and engawardage the Berkeley STEM education and outreach (E&O) community and our off-campus partners. Please scroll to the end of this message for more information about CEO.*

### Breaking News!

#### Sheila Humphreys and John Matsui recognized by Presidential Award

This week President Obama named 14 individuals and one organization as recipients of the **Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring (PAESMEM)**—among them **John Matsui** and **Sheila Humphreys** from UC Berkeley, both pioneers and champions in recruitment, retention and support of underrepresented groups in STEM.

### Opportunities

**Science Education Fellowship**—HHMI Science Education announces a fellowship opportunity with HHMI's Educational Media and Outreach group at the Institute's headquarters in Chevy Chase, MD. The group seeks a Science Education Fellow to work with HHMI staff on outreach and evaluation targeted at understanding how to increase awareness of HHMI BioInteractive among two- and four-year college instructors, and better serve college students and faculty.

**Free Webinar: Designing Surveys Using Construct Mapping** The purpose of this webinar is to review best practices in designing surveys, introduce participants to construct mapping, and provide a brief introduction to Rasch analysis. Using construct mapping provides a 1) coherent and substantive definition for the construct's content, and 2) involves designing the items based on an underlying, hierarchical continuum. Designing your surveys using construct mapping facilitates more precise measurement of your latent variables of interest (e.g., attitudes, beliefs).

**6/23/15 10am-12pm, Free Workshop: Program Assessment 101**—Sponsored by the SF Foundation Center. Program assessment enables you to monitor and report on deliverables and outcomes. Participant surveys and other types of assessments can provide answers to such key stakeholder questions as “How participants changed after being in your program?” and “What have you learned from your data and put into place to improve your program?” This workshop provides an introduction to conducting effective program assessments. Participants will gain hands-on practice developing target outcomes for a program logic model--a powerful planning, communication, and evaluation tool--and receive tips on developing effective surveys. [Register here-->](#)

**6/30/15 9-10:30am, Free Workshop: Cracking the Funding Code—Tech Corporate Giving Trends**—Sponsored by the SF Foundation Center. This workshop provides an insider's look at corporate philanthropy giving trends in Silicon Valley and the Greater Bay Area, particularly focusing on education funding. [Register here-->](#)

**Call for proposals** HHMI announces a call for proposals for the development of the 2016 HHMI Constellation Studios for Science Education. Studios provide a venue for program directors and professors to explore a shared interest or challenge through interactions with each other and with renowned science education experts. Each Studio is developed and organized by two co-chairs, who are themselves HHMI program directors and professors, working in conjunction with HHMI Science Education staff. We invite proposals for Studio topics for the 2016 calendar year. In 2016, Studio meetings are scheduled for April 6-8, 2016 (Studio A) and November 16-18, 2016 (Studio B). Meetings will be held at HHMI headquarters in Chevy Chase, MD. [More-->](#)

## New and noteworthy

**More Latinos with STEM degrees needed, here are the top schools doing it**—A new report by Excelencia in Education found that Latinos earned more STEM credentials across all academic levels—including associate, bachelor and graduate degrees—over the last few years. However, only 9 percent of STEM degrees and certificates went to Latinos in 2013. The report lists the top 25 colleges and universities that are graduating Latinos in STEM. Those schools are primarily located in three states—California, Florida, Texas—and Puerto Rico. **At the doctorate level, Stanford University, the University of California at Berkeley and the University of Texas at El Paso are awarding the most Latino degrees.** At the Master's level, the top are the Universidad Politecnica in P.R., and again Florida International University and University of Texas at El Paso. At the Bachelor degree level, top schools are the University of Puerto Rico-Mayaguez, Florida International University and the University of Texas at El Paso. (Excelencia in Education 6/17/15.)

**What Twitter says about the education policy debate and how scholars might use it as a research tool**—We now take for granted that Twitter is an important—if often vitriolic—platform for public policy debate, including the high-pitched battles over education reform. What is new is the use of Twitter as an analytic tool. For example, the Consortium for Policy Research in Education (CPRE) made a splash in February with an innovative study of how the Common Core debate is playing out on Twitter. (EducationNext fall 2015.)

**College Board and NSF expand partnership to bring computer science classes to high schools across US**—The College Board and the National Science Foundation (NSF) have announced an extension of their partnership to support teachers and schools in offering the new Advanced Placement (AP®) Computer Science Principles course in the fall of 2016. Although most U.S. students use information technology on a regular basis, only a small fraction of them have the opportunity to take a computer science course in high school. In fact, a smaller percentage of U.S. high school students take computer science courses today than two decades ago. In addition, women, African Americans and Hispanics are significantly underrepresented among those students who do take computer science courses. Alongside changes in the revamped SAT comes free online prep courses, courtesy of the College Board and Khan Academy. EdSource notes that these courses may level the playing field to close the achievement gap between students who can and cannot afford adequate test prep materials. (EdSource 6/2/15.)

**How parents can help their daughters find a career in science**—Gender stereotypes about women in science persist worldwide, a new study co-authored by UCB education professor Marcia Linn finds. One of the ways the stereotypes are reinforced is unintentional — when teachers hold up examples of exceptional female scientists. "Students need to see examples beyond Marie Curie to accurately form their beliefs about who pursues science," says one of the co-authors. Examples about successful women surely come with good intentions, but they may do more harm than good, because they suggest to girls and young women that the sciences are almost exclusively for men. (Deseret News, 6/5/15.)

**Strategies to close the excellence gap**—Education reformers over the past few decades have been fixated on the "achievement gap" and have advocated for significant resources to be dedicated to helping as many low-income students as possible reach minimum academic standards. While that effort has met with some success and is certainly worthwhile, it has come at the expense of the highest achievers among the population of low-income students, resulting in an "excellence gap" — the disparity in the percentage of lower-income students who reach an advanced level of academic achievement compared with those from higher-income households. (Philanthropy News Digest, 5/26/15.)

**Every career is a STEM career**—Every career is a STEM career; the only difference is the amount of education required for a specific field and the financial compensation received. From bug exterminator to aerospace engineer, STEM skills are required on a daily basis. This can only call into question our approach to filling career field shortages and how STEM is understood and incorporated into every curriculum. (Consumer Affairs, 5/28/15.)

**New Open Access Journal Published by the American Educational Research Association** *AERA Open* is a new peer-reviewed, open access journal published by the American Educational Research Association (AERA). With an emphasis on rapid review and dissemination, AERA Open aims to advance knowledge through theoretical and empirical study across arenas of inquiry related to education and learning.

## ----- About CEO

**The Coalition for Education & Outreach (CEO)** is self-formed group of staff, faculty, postdocs, and students on

the Berkeley campus and surrounding community who work in science, technology, engineering and math education and outreach (E&O). During the academic year (Oct-May), we hold monthly meetings to further professional development, networking, and information exchange among members of our community. [Click here](#) to subscribe/unsubscribe to the CEO e-list and newsletter. For more information, contact [Kate Spohr](#) or [Dan Zevin](#).