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In this issue of CEO Updates:

[View this email in your browser](#)

- [Spotlight](#)-Coming up at CEO
- [Events](#)-Live and virtual
- [Funding](#)-Public & private funding
- [Opportunities](#)-Upcoming conferences
- [Resources](#)-Tools you can use
- [News & Views](#)-New research and updates from the field



CEO Updates

February 1, 2017

Timely news and updates from the Coalition for Education and Outreach.

Spotlight

Tues, Feb 14, noon-1:30 pm, CEO monthly meeting: Creating successful partnerships with schools. This session explores what it takes to build successful partnerships with teachers, schools, and/or districts. Panelists will highlight several K-12 partnerships spanning multiple districts and grades. Topics of discussion will include critical elements for partnership success, strategies for addressing challenges, and potential opportunities for new and expanded partnerships to address school needs. [Panelists include:](#) **Cheyenne Pronga**, STEM Lead & Science Teacher, **MetWest High School**, Oakland; **Joanna Totino**, Director, **Bay Area Science Project, Lawrence Hall of Science**; and **Betsy Mitchell**, **Berkeley Natural History Museums**. Location: 303 Doe Library. [More-->](#)

Events

Weds, Feb 15, 4:00-5:30 pm, An election like no other, and what lies ahead, with Senator Barbara Boxer. Location: Banatao Auditorium, Sutardja Dai Hall, UC Berkeley. Reception to follow. [Learn more/register-->](#)

Free online courses on teaching and learning. The Center for the Integration of Research, Teaching and Learning (CIRTL) at the Univ. of WI, Madison is offering two 8-week courses that advance evidence-based STEM education at the college level. [Courses begin Jan 30 and registration is required.](#) [An Introduction to Evidence-Based Undergraduate STEM Teaching.](#) This course is designed to provide future STEM faculty, graduate students and post-doctoral fellows with an introduction to effective teaching strategies and the research that supports them. [Advancing Learning through Evidence-Based STEM Teaching.](#) Students will learn about the “teaching-as-research” framework. Through this framework, participants will learn about effective teaching strategies and the research that supports them, as well as how to collect and analyze evidence of student learning. [Register using the links above.](#)

STEM for All video showcase. [Register by 2/15/17.](#) Projects funded by NSF and other other federal agencies are invited to present their work by creating a <3 minute video that showcases the need addressed, the intervention, innovation, and impact. During the week of May 15th - 22nd, presenters will engage in discussions with researchers, practitioners, policy makers and members of the public. The showcase attracts tens of thousands of participants internationally. [Register-->](#)

Funding

NSF STEM + Computing Partnerships. [Deadline: 3/29/17.](#) This program seeks to address the urgent need to prepare students from the early grades through high school in the essential skills, competencies, and dispositions needed to succeed in a computationally-dependent world. STEM+C advances the integration of computational thinking and computing activities in early childhood education through high school (pre-K-12) to provide a strong and developmental foundation in computing and computational thinking through the integration of computing in STEM teaching and learning, and/or the applied integration of STEM content in pre-K-12 computer science education. Award amounts: from \$1,250,000 to 2,500,000 for three years depending on category of funding. [More-->](#)

Braitmayer Foundation seeks proposals for innovative K-12 education programs. Deadline: 3/15/17. The Foundation awards grants up to \$35,000. The Foundation is interested in proposals utilizing innovative practices in K-12 education throughout the United States. Of particular interest are: Curricular and school reform initiatives, and professional development opportunities for teachers, particularly those which encourage people of high ability and diverse background to enter and remain in K-12 teaching. The Foundation does not make grants to individuals, multi year grants, nor grants for general operating, endowment purposes or building programs. Unless a small percentage of the total amount requested, normally the Foundation does not make grants for childcare, pre-kindergarten, or after school programs nor for equipment including hardware, software, and books. Please note: This grant cycle takes one full year from submission of a Letter of Inquiry to notification and may include a site visit. [More-->](#)

Opportunities

Upcoming conferences

- Feb 16-20, Boston, MA. **American Assoc for the Advancement of Science.** aaas.org.
- Feb 18-21, Atlanta, GA. **American Association of Physics Teachers.** aapt.org.
- Apr 3-5, San Antonio, TX. **National Council of Teachers of Mathematics.** nctm.org.
- Apr 26-28, Portland, OR. **National Alliance for Broader Impacts.** nabi.org.
- Apr 27-May 1, San Antonio, TX. **American Educational Research Association.** aera.org.
- Mar 30-Apr 2, Los Angeles, CA. **National Science Teachers Association.** nsta.org.
- Jun 25-28, Columbus, OH. **American Society for Engineering Education.** asee.org.
- Jul 9-11, Baltimore, MD. **Computer Science Teachers Association.** csta.acm.org.
- Oct 21-24, San Jose, CA. **Association of Science Technology Centers.** astc.org.
- Nov 9-12, St. Louis, MO. **National Association of Biology Teachers.** nabt.org.

Resources

Communicating science effectively. This new report from the National Academies of Sciences, Engineering, and Medicine examines some of the unique challenges connecting research and practice in science communication, especially with regards to topics subject to public controversy, and encourages the use of scientific processes to develop evidence-based strategies for effective science communication. [Full report-->](#)

Science360 app. This app provides easy access to engaging science and engineering images and video from around the globe and a news feed featuring breaking news from NSF-funded institutions. Content is either produced by NSF or gathered from scientists, colleges and universities, and NSF science and engineering centers. Download for free from the [App Store at iTunes](#).

Science360 radio. Offers 24/7 programming, with more than 100 radio shows and podcasts produced in the United States, Canada, the United Kingdom and Australia. The programming is made available by the producers at no cost to NSF or listeners. It's available on the Web and via iPhone and Android devices. Available at [Science360 Radio](#).

News and Views

Education leaders react strongly to Trump's inaugural remarks on education. UC Berkeley education and public policy professor **Bruce Fuller** wasn't the only education expert irked by Donald Trump's claim at his inauguration that the education system is "flush with cash" but leaves students "deprived of all knowledge." Fuller says: "America now spends less on education than most East Asian and European societies, our economic competitors," and yet "our children's learning curves have grown steeper - slowly but surely - over the past four decades." [More-->](#)

Upward mobility and higher education. A new study of upward mobility at U.S. colleges and universities has ranked California schools, including **UC Berkeley**, among the best for furthering upward mobility by expanding access to lower-income students. The [Equality of Opportunity](#)

[Project](#) report card, co-authored by economics professors **Emmanuel Saez and Danny Yagan**, shows that elite colleges are richer than experts had previously thought with 38 colleges in America, including five in the Ivy League, enrolling more students from the top 1 percent of the income ladder than from bottom 60 percent. At Berkeley, 3.8 percent come from the top 1 percent, while 29.7 come from the bottom 60. [More-->](#)

Exploring K-12 Indicators of postsecondary STEM success. A new review of research literature looks at malleable factors that can be measured in K-12 settings and that predict students' postsecondary STEM success, particularly for Hispanic students. Identifying predictive factors can help policymakers and school administrators develop and implement interventions that increase the percentage of underrepresented minority students succeeding in postsecondary STEM majors. [More-->](#)

The high impact of high school counseling. New research from the [National Association for College Admission Counseling](#) (NACAC) demonstrates that students who met one-on-one with a high school counselor were three times more likely to enroll in college and seven times as likely to complete a FAFSA. [More-->](#)

About CEO. The **Coalition for Education and Outreach** (CEO) was established in 2010 as a network of organizations, departments, and individuals on the UC Berkeley campus and in the greater Bay Area engaged in STEM education and outreach (E&O). We host the education.outreach listserv, publish this newsletter, and host meetings and networking events to facilitate collaboration and learning. [Learn more/subscribe here-->](#)



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