
CEO message: CEO Updates, October 15, 2016

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Sat, Oct 15, 2016 at 5:00 PM



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Coming up at CEO

Tues, Oct 25, noon-1:30 pm – CEO special session: Harnessing UCB professional learning resources for K-12 educators. Individuals on campus who work with the Bay Area educator community have begun meeting as a group to learn more about each other's work and offerings, consider how we can best support each other's work, and discuss ways to coordinate and share information with the K-12 community. This network has come together to develop a specific calendar for UCB-sponsored professional development opportunities for educators. In this session, we will share a bit about this new network and discuss opportunities to collaborate with CEO members. The meeting is hosted by **Rachel Reinhard, Director, UC Berkeley History Social Science Project.**

Events

Thurs, Oct 20, Noon to 1:00 pm–Free webinar: Pathways to and through graduate school in the life sciences–Moving from undergraduate study to graduate school can be a challenging transition. In this webinar, four graduate students share their stories about how they formed their science identity. They will discuss what things their undergraduate and graduate mentors did to help them succeed as scientists and helped them become part of the scientific community at their current graduate institution. Register [here](#).

Sat, Oct 22, 8:30 am-1:15 pm–Annual conference to support undocumented students, parents and allies–Contra Costa College hosts this 6th annual districtwide conference, *Keeping the Dream Alive!*, in support of undocumented students in Contra Costa County. The event is free and lunch is included. Presented in partnership with Diablo Valley College, Los Medanos College, CSU, UC, One Justice, and United Latino Voices Register [here](#).

Thurs/Fri 10/27 & 10/28, 5:30-8:30 pm, Vision + Light Join Science@Cal for two evening events exploring exhibits of multimedia artwork, microscopy, music and sculpture created by artists and scientists seeing the world in new ways. Examine the beautiful minute universe with cutting-edge microscopes, feed a robot and fold some origami with a master, and join in fascinating conversations on image, technology, creativity and inspiration. Vision + Light is presented in partnership with the Bay Area Science Festival, Helen Wills Neuroscience Institute, and the Berkeley Brain Microscopy Innovation Center. Location: UCB Energy Bioscience Building, 2151 Berkeley Way.

Oct 27-Nov 5, Bay Area Science Festival—Created by the Bay Area's scientific, cultural, and educational institutions, the Bay Area Science Festival returns for its sixth season. The festival features lectures, debates, exhibitions, concerts, plays, workshops at a variety of locations throughout the Bay Area. [More-->](#)

Feb 16-20, 2017—AAAS Annual Meeting, Boston. The meeting provides many opportunities for attendees to network, share their research, and discuss recent developments in science and technology with thousands of scientists, journalists, and policymakers. The theme for the 2017 AAAS meeting is "Serving Society Through Science Policy." [More-->](#)

Funding

President's Postdoctoral Fellowship Program. Open to all fields (PhD required) with the goal of diversifying faculty ranks at the ten-campus UC system, the three UC-affiliated national laboratories, the University of Michigan, the University of Colorado, Stanford, CalTech, and the University of Maryland. November 1 priority deadline. [More-->](#)

PG&E robotics grants for K-12 schools—PG&E and Playing at Learning sponsoring this opportunity for youth within PG&E's service area. The PG&E FIRST® Robotics program provides school and community-based student teams with funding to build robots and take part in competitions. The program provides students with the opportunity to design and build fully functioning robots and participate in robotics competitions. Schools are invited to apply now (grants are provided on a first-come, first-serve basis). [Learn more & apply here-->](#)

Jack Kent Cooke Foundation College Scholarship Program—The foundation provides high school seniors with up to \$40,000 per year toward their degree, in addition to college advising and opportunities for internships, study abroad and graduate school funding. Deadline: November 30. [More-->](#)

Resources

YouResearch is new non-profit organization designed to promote scientific research through a unique, interactive platform that connects high school students with professors and advisors who are dedicated to assisting them. [More-->](#)

CAISE guide to resources for broadening participation in STEM—This guide provides a starting point for those developing proposals and projects designed to broaden participation in STEM through informal learning experiences. The guide provides a list of NSF-funded projects, reports, and professional organizations that can serve as starting points for reviewing previous related work during the proposal development process. [More-->](#)

News & views

Berkeley MBA students question the status quo on diversity & inclusion—When a group of Haas students surveyed classmates on attitudes about race and diversity, they found a marked incongruity: almost 90% said understanding racial dynamics is critical to being an effective leader, but *less than half*

said they are comfortable talking about race. Not so for a group of students who decided to launch the research-based Race Inclusion Initiative (RII) last spring. They enlisted faculty mentors, scoured admissions and demographic data, and conducted interviews, surveys, and focus groups to pinpoint areas in need of change. Inspired by the successful [Gender Equity Initiative](#), which has boosted the number of women in the program and continues under a third generation of leaders, the RII is among an increasing number of efforts by students to drive a more inclusive culture at Haas. [More-->](#)

California expands K-12 computer science education—CA Governor Jerry Brown has signed a bill into law that aligns with the White House's Computer Science for All (CSforAll) initiative. AB 2329 initiates a 3-year planning process to bring computer science curriculum to every grade in California's public schools. [More-->](#)

Best practices in teachers' professional development—This paper discusses best practices in teachers' professional development (PD) in the US. The authors examine three major trends in professional development for teachers: a move away from short workshops, linking teacher PD to evaluations, and the use of video technology to improve and monitor the effects of PD. They discuss the challenges faced by districts and schools in implementing effective professional development. [More-->](#)

New study: Culture of health requires focus on young men of color—Commissioned with the Robert Wood Johnson Foundation's \$12 million commitment to [Forward Promise](#)—an initiative to improve the prospects of boys and young men of color—a series of new reports examine key barriers to health and success for young men of color, including [unequal access to early childhood education](#), [disproportionate expulsion and suspension from preschool](#), [school discipline practices](#), [low high school graduation rates](#), [trauma and violence](#), and [limited career pathways](#). [More-->](#)

CEO Updates is the newsletter of the [Coalition for Education Outreach](#) (CEO), an informal working group of organizations, departments, and individuals on the UC Berkeley campus and in the community engaged in STEM education and outreach (E&O). Our mission is to further professional development, facilitate best practices, and encourage information exchange. [Kate Spohr](#) and [Dan Zevin](#), CEO co-chairs, welcome your questions, comments, and ideas. [More-->](#)

Acronym translator: STEM (Science, Technology, Engineering, Mathematics); STEAM (STEM + Art); NGSS (Next Generation Science Standards); NSF (National Science Foundation); NIH (National Institutes of Health); K-12 (kindergarten through 12th grade); E&O (education and outreach).

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