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CEO message: CEO Updates

1 message

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Reply-To: Coalition for Education and Outreach <education.outreach@lists.berkeley.edu>

To: CEO <education.outreach@lists.berkeley.edu>

CEO Updates is a biweekly newsletter designed to inform and engage the UC Berkeley STEM education and outreach (E&O) community and our off-campus partners. *Please scroll to the end of this message for additional information about [The Coalition for Education and Outreach \(CEO\)](#).*

CEO EVENTS

TODAY! Thursday 9/10/15—CEO beginning-of-year social, 4:30-6:00 pm. Usher in the new academic year with CEO colleagues and friends in an informal, relaxed setting. Light snacks and no-host bar. [RSVP here](#). Location: Celia's Mexican Restaurant, 1841 Euclid (on north side of UC Berkeley campus).

10/13/15 CEO monthly meeting, 12:00 to 1:30 pm. Richard Freishtat, director of the [Center for Teaching and Learning](#) (CTL), will discuss how the Center works with Berkeley faculty and departments to enhance teaching and learning effectiveness in pedagogy, curriculum, and assessment. He will also discuss two recent NSF-funded projects for which CTL provided consultation in program design, curriculum development, and training. Joining Richard will be **Catherine Halversen** and **Lynn Tran** from the **Lawrence Hall of Science** (LHS) who worked with CTL on the *Redefining the College Lecture* project; and **Jo Yuen** from the **Center for Energy Efficient Electronics Science** (E3S) who worked with CTL on a Research Experiences for Teachers (RET) program that teaches context-based learning to community college faculty. Location: [303 Doe Library](#).

View the complete [CEO event and meeting schedule](#).

Campus & local events

9/15/15, Educational Technology Services presents: Big Data for Teaching and Learning, 2-3 and 3-5 PM. Data analytics and its application to teaching and learning promises to build on traditional business intelligence by providing regular, targeted feedback directly to students, faculty, and advisers. **Anthony Whyte** from the University of Michigan, co-lead of [IMSGlobal's Caliper Working Group](#) will give a **1-hour general audience overview** of this emerging standard, followed immediately by a **2-hour workshop for technical staff** that will teach the basics of instrumenting teaching and learning oriented software to be Caliper compliant. Bring your laptop. No registration required. Location: 127 Dwinelle.

9/16/15, Center for Studies in Higher Education and Social Science Matrix present: Rich Schools, Poor Students: Tapping Large University Endowments to Improve Student Outcomes, 4:00-6:00 pm. **Dr. Jorge Klor de Alva**, president of **Nexus Research and Policy Center**, will discuss the compelling findings in the "Rich Schools, Poor Students" report, which reveals that many of the richest universities in the country, sitting on hundreds of millions of dollars in tax exempt endowments, receive government subsidies through tax laws that dwarf the appropriations received by public universities and colleges. Moreover, welfare to the wealthy through hidden subsidies is not good policy. The report proposes a revenue-neutral way to apply money generated by reforming existing tax policy to provide new opportunities for community college students. No registration required. Location: 8th Floor, Barrows Hall, Social Science Matrix, UC Berkeley.

9/22/15, Center for Intercultural Leadership presents: Get global ready—thriving in an intercultural workplace, 1:30 - 4:30 pm—As UC Berkeley becomes more global, understanding different cultural styles is imperative. Workshop participants will receive: *Complimentary access to an online assessment called GlobeSmart (normally \$20), *Personalized profile of their preferred intercultural work style, *Ability to compare individual profiles to the average profile from another country and/or other individuals at UCB. Registration is limited to UC Berkeley personnel with CalID. [Register through the UC Learning Center on Blu.](#) Location: International House Home Room.

9/25/15, Trellis presents: Graduate student-initiated science communication training programs, noon to 1:00 pm—This online discussion hosted by Trellis* features graduate student leaders **Elyse Aurbach** and **Katie Prater** from the **University of Michigan**, and **Jesse Dunietz** and **Ardon Shorr** from **Carnegie Mellon University**. They will discuss graduate student-initiated science communication training programs. The conversation will include overviews of their programs, including some of their needs and their questions for the community. Participants are encouraged to share perspectives from their own programs. Trellis is a new AAAS social media platform that is free to join. [Join Trellis.](#)

10/9/15, Save the date-1st Annual UC Berkeley conference: expanding undergraduate success in biology, 9am-5pm. At this data-driven conference sponsored by Biology Scholars, faculty, professional staff, postdocs, and graduate students will create strategies to reduce barriers and increase opportunities for success among UC Berkeley biology majors. The goal for this series of four annual conferences is to improve how we advise, teach, and mentor *all* students interested in biology. Location: International House. For more info: biology_scholars@berkeley.edu.

11/5/15, Women's Faculty Club presents: Academic lives—women who built the Berkeley campus, 4:00-6:00 pm. Featured speaker, **Dr. Sandra Epstein.** No registration required. Location: Women's Faculty Club, UC Berkeley.

11/7/15, STEM educator workshop—teaching like an engineer: NGSS engineering standards, 10:00 am-1:00 pm. The Next Generation Science Standards (NGSS) now include K-12 engineering design standards requiring students to learn engineering as a problem-solving process. In this one-day workshop, we will look into the history of these standards, discuss and define "engineering design," and work through a 3-step design process with both a class discussion and an example activity. Following the workshop, participants are welcome to stay and explore the USS Hornet. Location USS Hornet Museum, San Francisco. Space is limited. Call for registration: (510) 521-8448 x224 or email: EDU@uss-hornet.org

Funding

NSF Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM). Deadline: 9/22/15. NSF Scholarships in Science, Technology, Engineering, and Mathematics program (S-STEM) addresses the need for a high quality STEM workforce in areas of national priorities. The program seeks to increase the success of low-income academically talented students with demonstrated financial need who are pursuing associate, baccalaureate, or graduate degrees in science, technology, engineering, and mathematics (STEM). [Program guidelines](#).

National Education Association Foundation invites applications for Learning and Leadership Grants. Deadline: 10/15. This program provides grants to public school teachers, public education support professionals, and/or faculty and staff in public institutions of higher education to fund their participation in high-quality professional development experiences such as summer institutes or action research; or grants to groups to fund collegial study, including study groups, action research, lesson study, or mentoring experiences for faculty or staff new to an assignment. The grant amount is \$2,000 for individuals and \$5,000 for groups. Group grant applicants must include partner information. To be eligible, applicants must be a pre-K–12 public school educator; a public school education support professional; or a faculty or staff member at a public institution of higher education. Preference will be given to members of the National Education Association. [Program guidelines](#).

Opportunities

2016 Vannevar Bush Award and 2016 Public Service Award—Deadline for nominations for both awards: 10/1/15. The National Science Board established the Vannevar Bush Award in 1980 to honor Dr. Bush's unique contributions to public service. The annual award recognizes an individual who, through public service activities in science and technology, has made an outstanding "contribution toward the welfare of mankind and the Nation." The recipient of the award receives a bronze medal struck in the image of Dr. Bush. The NSB established the Public Service Award in November 1996. The annual award recognizes people and groups (company, corporation, organization) that have increased the public understanding of science or engineering. [Program information](#).

New & noteworthy

Congress' homework: reauthorize education trio—Congressional inaction has delayed the reauthorization of three key pieces of education legislation: the Elementary and Secondary Education Act (ESEA), the Higher Education Act (HEA) and the Carl D. Perkins Perkins Act. In order to build and maintain a strong workforce, industry must be supported by education policy that ensures high school, college, technical school and community college graduates have employable skills. This article provides a good overview of these three key bills and explains their significance. 8/20/15, ARSA.

School librarians team up with teachers to create freely available STEM lessons—"School Librarians Advancing STEM Learning" is a 3 year program run by the Institute for the Study of Knowledge Management in Education (ISKME), a nonprofit focused on developing open educational resources and fostering collaboration in education. This year, 25 STEM teachers and librarians are being

trained and supported in co-planning lessons. The lessons are shared on the [Open Educational Resources \(OER\) Commons](#), where teachers can create and search freely-available educational resources. 9/4/15, Education Week.

How scientists engage the public—The vast majority of American scientists believe that participation in policy debates and engagement with citizens and journalists is necessary to further their work and careers. A survey of 3,748 American-based scientists connected with the American Association for the Advancement of Science (AAAS) finds that 87% agree with the statement “Scientists should take an active role in public policy debates about issues related to science and technology.” 43% say it is important or very important for scientists in their specialty to get coverage of their work in news media, and 22% described it as either “very important” or “important” for career advancement in their discipline to promote their findings on social media such as Facebook or Twitter. These findings come at a time when science topics are increasingly part of the public debate. Pew Research findings from this survey showed an overall drop in how scientists rate the state of science in general and their particular scientific field. Scientists also express concerns about the precarious state of research funding, some of the influences on how funding is allocated, and difficulties they feel hinder the capacity of science disciplines to attract the best talent to the field. Feb 2015, Pew Research Center.

Digging deeper into the psychological costs of college—A report from the University of Chicago's Minority College Cohort Study describes the significant financial distress that well-prepared black and Latino students face when attending college. Researchers included recommendations for colleges and universities to better address this population's needs. August 2015, University of Chicago Minority College Cohort Study.

Expanding the view of giftedness—This article profiles exemplary programs for closing the excellence gap by nurturing underrepresented groups of students. Sept 2015, American Association of School Superintendents.

Obstacles deterring gifted education—Although the education of high-ability children faces many obstacles—including state policies and shrinking federal funding—some school systems have succeeded in adopting practices to better serve high-achieving, low-income students. Sept 2015, American Association of School Superintendents.

About CEO

The **Coalition for Education & Outreach** (CEO) is an all-volunteer community of practice for staff, faculty, postdocs, and students who work in science, technology, engineering, and math (STEM) education and outreach at Berkeley and in our surrounding communities. Our mission is to further professional development, networking, and information exchange within our community of over 270 subscribers. Membership is free and open to all. [Click here](#) to subscribe or unsubscribe to the CEO e-list and newsletter. Visit the [CEO website](#) for information about CEO's members and programs, or to access past issues of this newsletter. CEO co-chairs [Kate Spohr](#) or [Dan Zevin](#) welcome your comments, questions, and ideas.

