

CEO message: CEO Updates, July 15

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



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Spotlight



Bay Area
**SCIENCE
FESTIVAL**

Oct 27-Nov 5, The Bay Area Science Festival celebrates the Bay Area's scientific wonders, resources, and opportunities. There are numerous Festival events the UC Berkeley scientific community can participate in. Outreach organizers may wish to host a lab tour, a talk or presentation, or a hands-on activity at Discovery Days at AT&T Park and CSU East Bay. See the [Festival information page](#) for details. **Science@Cal supports and promotes all UC Berkeley festival activities. If you have questions, ideas for an event, or would like to volunteer, please contact us at science@cal.berkeley.edu.**

Events

UC Berkeley Multicultural Education Program (MEP) is now accepting applications for its diversity-focused workshops for the fall 2016 semester. MEP offers enrollment options for both [Individual Workshops](#) or for the [MEP Certificate Curriculum](#). MEP is one of six initiatives funded by the Evelyn and Walter Haas, Jr. Fund to support institutional change and to create a positive campus climate for diversity. MEP events are free of charge to UC Berkeley employees. [More-->](#)

Sept 24-27, Assoc of Science Technology Centers (ASTC) Annual Conference, Museum of Science and Industry in Tampa, Florida. This annual conference brings together science centers, museums, nature centers, aquariums, planetariums, zoos, botanical gardens, and children's museums, as well as companies, consultants, and other organizations that share an interest in informal science education. [More-->](#)

Opportunities

National Council of Teachers of Mathematics (NCTM) teacher grant programs. Application deadline for both programs: 11/4/16. 1) [Emerging Teacher-Leaders Grants for Elementary Math Teachers](#). Grants of up to \$6,000 will be awarded to support the professional development of an elementary school mathematics teacher. Grantees will be expected to provide ongoing professional development to other teachers within their school or district with the goal of strengthening their mathematical understanding and instructional practices. 2) [Projects Connecting Mathematics to Other 9-12 Grade Subject Areas](#). The purpose of this grant is to create senior high classroom materials or lessons connecting mathematics to other fields. For 2017-18, grants with a maximum of \$4,000 each will be awarded to persons currently teaching mathematics in grades 9-12. More info in links above.

AAAS award for science diplomacy. Nomination deadline: 9/1/16.—This award recognizes an individual (or limited number of individuals) working together in the scientific or engineering community to further science diplomacy by fostering activities and developing programs that both address key science questions and build important societal links. [More-->](#)

News & views

Even Einstein struggled—Students' beliefs that success in science depends on exceptional talent negatively impact their motivation to learn. For example, such beliefs have been shown to be a major factor steering students away from taking science and math courses in high school and college. In this study, a demographically diverse group of 9th and 10th grade students read stories about eminent scientists that described how the scientists struggled intellectually and/or overcame personal/social obstacles (such as poverty, lack of support). A control group read stories about scientists who made great discoveries without describing any struggles. Results from the study cohort showed improved science learning, with the effect of the intervention being more pronounced for low-performing students. [More-->](#)

Strengthening the regional STEM workforce development ecosystem—This report reviews the extent to which universities and employers in five metropolitan communities collaborate successfully to align undergraduate educational experiences with current STEM workforce needs. The recommendations and findings presented will be most relevant to educators, policy makers, and industry leaders. [More-->](#)

EdBuild annual report on student poverty—School funding in the U.S. creates incentives for communities to segregate along socioeconomic lines in order to preserve local wealth. In so doing, communities create arbitrary borders that serve to lock students into, or out of, opportunity. This reality is especially glaring in the case of island school districts that are entirely surrounded by single districts of very different means. This report includes a data visual of 180 of these so-called "island districts." [More-->](#)

Promoting greater diversity on college campuses through increasing the number of interracial roommates—Research has shown that students who lived with a member of another race showed significant gains in the comfort levels they exhibited around different groups. [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-->](#)

Acronyms frequently used in this newsletter: E&O (education and outreach); 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).

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