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CEO Updates

March 1, 2017

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

Spotlight

Tues, Mar 14, noon-1:30 pm, How leadership training can inspire academic success for youth (CEO monthly meeting). Featured speaker: **Deborah McKoy, Director of YPLAN, Center for Cities and Schools**. This presentation focuses on a highly-successful UC Berkeley program that has become a model program for youth leadership training. Location: 303 Doe Library. [More-->](#)

Events

Mar 2-3, 5th Annual Beyond Academia Conference. A two day conference for PhD students and postdocs to learn more about pursuing career paths outside of tenure-track academia. Location: Clark Kerr Campus. [Register and learn more here.](#)

Mon, Mar 20, 5:30-7:30 pm. Story strategies for science communication: Tips from

Pixar. Come learn strategies adapted from Pixar's creative process to help you communicate science to any audience! This interactive workshop will get you started on translating your science into an engaging and relatable story. We will also discuss challenges to communicating science through story with a panel of Pixar artists, Berkeley faculty, and museum educators. Hosted by the University of California Museum of Paleontology. Event location: UCB, Genetics & Plant Biology Building, Room 100. Space is limited and registration is required. [Register here.](#)

Funding

IDEA Impact Grants. [Deadline: 3/31/17.](#) IDEA seeks to promote new knowledge in higher education in the fields of teaching, learning, and campus climate. IDEA Impact Grants are designed to promote effective student learning by carefully exploring and systematically documenting the efficacy of various teaching practices, learning environments, and institutional policies. Maximum award amount is \$10,000. [More-->](#)

Jack Kent Cooke Young Scholar Program. [Deadline: 4/5/2017.](#) The Cooke Foundation is accepting applications from outstanding 7th grade students with financial need for its annual Young Scholars Program. From eighth grade through their senior year of high school, Young Scholars receive a personal academic and college counselor, funding for academic and enrichment programs in the summer and during the school year, internship and study-abroad opportunities, and educational resources, including books and technology. In addition, Cooke Young Scholars often go on to receive [Cooke College Scholarships](#) worth up to \$40,000 a year. [More-->](#)

Resources

Human water cycle video series. This new four-part video series by the [National Science Foundation \(NSF\)](#) and [NBC Learn](#) explores the connection between water, food, and energy. View the videos at [Science360.gov](#).

News and Views

Undergraduate research experiences for STEM students: Successes, challenges, and opportunities. A new study from the National Academies of Sciences, Engineering, Medicine provides an overview of the current and rapidly evolving types of undergraduate research experiences (UREs). The report provides a set of questions to be considered by those designing and implementing UREs, and proposes an agenda for future research that can help answer questions about how UREs work and which aspects of the experiences are most effective. [More-->](#)

Preservation of educational inequality in doctoral education: Tacit knowledge, implicit bias, and university faculty. In the U.S., the traditional explanation for the low numbers of Ph.D. recipients from low income, first generation, and other underrepresented groups are lack of preparation, lack of interest, and a “leaky pipeline.” A new article, by **UC Berkeley researcher**

Anne MacLachlan, argues that the most powerful vehicles of exclusion are tacit knowledge and the implicit bias of faculty. [More-->](#)

SF Chronicle Op-Ed: Top universities must enroll more low-income students. "The United States today ranks near the very bottom among industrialized nations in both income equality and social mobility." writes Chancellor Nicholas Dirks in a call for other leading universities to join Berkeley in committing to the American Talent Initiative, aimed at collectively educating 50,000 more low- to moderate-income students by 2025. Chancellor Dirks concludes: "While UC Berkeley already prioritizes affordability and enrolls more low-income students—9,000, or 34 percent of our student body—than any other university of our stature, we consider it essential to our public mission to give California's underprivileged a stronger foothold in society." [More-->](#)

Inclusive STEM high schools—new research and best practices. Inclusive STEM high schools are emerging across the country as a mechanism for improving STEM education and getting more and diverse students into STEM majors and careers. These recent studies provide new information on inclusive STEM high schools' design, implementation, and outcome dimensions: [The Eight essential elements of inclusive STEM high schools](#), [Inclusive STEM high schools increase opportunities for underrepresented students](#), [In the guise of STEM education reform: Opportunity structures and outcomes in inclusive STEM-focused high schools](#), [Modeling successful STEM high schools in the United States: An ecology framework](#), and [A policy-relevant instrumental case study of an inclusive STEM-focused high school: Manor New Tech High](#).

New data: NGSS is boosting engineering in schools. [Next Generation Science Standards \(NGSS\)](#) are succeeding in their aim to integrate engineering and technology into science classrooms. These standards debuted in April 2013, and eight states adopted them by the end of that year: California, Delaware, Kansas, Kentucky, Maryland, Rhode Island, Vermont, and Washington State. [Change the Equation](#) analyzed data from the National Assessment of Educational Progress (NAEP) [eighth-grade science test](#) to see if schools in those eight states were teaching more engineering and technology. Early analysis of NAEP data shows that efforts to make engineering part of the K-12 curriculum are beginning to pay off. [More-->](#)

Blue collar STEM. A recent presentation to the National Science Board by Victor McCrary, vice president for research and economic development at Morgan State University, pinpoints NSF's niche in preparing workers with less than a four-year degree for millions of STEM-related jobs as lab and equipment managers, technicians, and testers. View the presentation [here](#).

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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