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## CEO Updates

### 12/1/16

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

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## Spotlight

**Tues, Dec 13, noon-1:30 pm, CEO monthly meeting: Diversifying engineering: Challenges and opportunities.** Speaker: **Sheila Humphreys**. Humphreys, who has been recognized by the Presidential Mentoring Award, served as the first STEM Diversity Coordinator in the College of Engineering and as Director of Diversity in the Electrical Engineering and Computer Science Department for 30 years. She will discuss the history of diversity programs at UC Berkeley, and the crucial role of both students and faculty as equal partners with staff in advancing the diversity agenda. She will discuss the effect of Proposition 209 on student programs, the challenges which resulted, and how strategies have evolved to achieve diversity goals. Location: 303 Doe Library. [More-->](#)

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## Events

**Weds, 12/7/16, 1:30-4:30pm-UCB workshop: Get global ready.** (Limited to UCB personnel). To be successful at UC Berkeley, staff must be able to collaborate with a wide range of people. As

the campus becomes more global, understanding different cultural styles is paramount. This workshop aims to prepare participants to return to their workplaces with stronger intercultural awareness and skills. Register on the UC Learning Center at [Blu](#), or contact [breidi@berkeley.edu](mailto:breidi@berkeley.edu).

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## Funding

**NSF Science of Learning (SL) Program**—Deadline: 1/18/17. The goals of the SL program are to develop basic theoretical insights and fundamental knowledge about learning principles, processes and constraints. The program supports a variety of methods including experiments, field studies, surveys, secondary-data analyses, and modeling. [More-->](#)

**NIH National Cancer Institute Youth Enjoy Science (YES) Research Education Program (R25)**—Two deadlines in 2017: 1/25/17 & 5/25/17. The goal of this NCI R25 program is to support educational activities that enhance the diversity of the biomedical, behavioral, and clinical research workforce. Accordingly, this funding announcement will support creative educational activities with a primary focus on 1) Research Experiences, 2) Curriculum or Methods Development, and 3) Outreach, With the aim of enhancing the pool of individuals from underrepresented backgrounds interested in pursuing a career in biomedical research via early intervention strategies, the NCI Youth Enjoy Science (YES) Program will support efforts to create and maintain an institutional program to engage grades 6-12 and/or undergraduate students from underrepresented populations in cutting edge cancer research experiences. The proposed institutional programs may also provide research experiences for the grade 6-12 teachers and undergraduate faculty members who serve underrepresented student populations. Budget and Duration: Applicants may apply for up to \$500,000 annually in direct costs for a maximum project period of five years. [More-->](#)

**National Education Association Learning and Leadership Grants**—Deadline: 2/1/2017. Grants of up to \$5,000 will be awarded to support the professional development of public school teachers, public education support professionals, and/or faculty and staff in public institutions of higher education. [More-->](#)

**NSF Cyberlearning and Future Learning Technologies**—Deadline: 2/10/16. The purpose of the Cyberlearning and Future Learning Technologies program is to integrate opportunities offered by emerging technologies with advances in what is known about how people learn to advance three interconnected thrusts: Cyber innovation, learning innovation, and advancing understanding of how people learn in technology-rich learning environments. [More-->](#)

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## Resources

**Young scientist survival kit**—This resource from iBiology includes a series of talks by successful biologists offering invaluable advice on career and professional development for aspiring young scientists. [More-->](#)

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## News and Views

**California is first to approve science framework**—In early November, California became the first state in the nation to approve a science framework that supports teaching based on the Next Generation Science Standards (NGSS). [More-->](#)

**Betsy Devos, school voucher champion, tapped for Education Secretary**—Donald Trump plans to nominate Betsy Devos as education secretary. The New York Times reports that the former Michigan GOP chair "has spent her career promoting a market-based, privatized vision of public education" and has "often focused on making charter schools as private as possible." [More-->](#)

**Can a university campus be a sanctuary?**—The concept of "sanctuary campuses" and potential strategies to support their undocumented students were recently discussed by [The Chronicle of Higher Education](#), [The Washington Post](#), and [Inside Higher Ed](#).

**Reaching students: What research says about effective instruction in undergraduate science and engineering**—How do students best learn science and engineering? Which teaching strategies are most effective? And how can practitioners most effectively apply these strategies to their own courses? *Reaching Students* strives to answer these questions by presenting the best thinking to date on teaching and learning in undergraduate science and engineering. [More-->](#)

**How teacher diversity affects student outcomes**—Because U.S. teachers are more likely to be white and female than their students, demographic mismatches may contribute to racial and gender achievement gaps. A number of recent studies contribute new understanding to the challenges of increasing educator diversity and improving outcomes for students: 1) [The importance of minority teachers: Student perceptions of minority versus white teachers](#); 2) [The effects of teacher match on academic perceptions and attitudes](#); 3) [Representation in the classroom: The effect of own-race teachers on student achievement](#); 4) [High hopes and harsh realities: The real challenges to building a diverse workforce](#); 5) [The state of racial diversity in the educator workforce](#); 6) [The state of teacher diversity in American education](#); 7) [Through our eyes: Perspectives and reflections from black teachers](#).

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**About CEO.** The Coalition for Education & Outreach (CEO) was launched in 2010 as a working group of organizations, departments, and individuals on the UC Berkeley campus and surrounding community engaged in STEM education and outreach (E&O). We host a listserv, publish this newsletter, and hold workshops and events to foster collaboration and learning. [Learn more/subscribe here-->](#)



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