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CEO Updates
December 15, 206

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

Happy Holidays, everyone!
Over the next few weeks, CEO Updates will be taking a long winter nap. See you in January!

Spotlight

Tues, Jan 10, noon-1:30 pm, CEO monthly meeting: Working successfully with youth who have experienced trauma. Recognizing the effects of trauma and understanding how to address trauma are important skills for program managers who serve youth from underserved and impoverished communities. In this session, a panel of program managers and youth educators will discuss how best to address the needs of this population through appropriate program design, recruitment strategies, support structures, staffing , and evaluation metrics, among other strategies. Panelists include: **Kimberly Aceves**, Director, RYSE Center (Richmond); Dr. **Vicki Zakrzerwski**, Education Director, UC Berkeley Greater Good Science Center; and **Jermaine Harris**, Success Program

Coordinator, African American Male Pipeline Project/ Womyn In STEM Education Project, UC Berkeley Pre College TRIO Programs. Location: 303 Doe Library. More-->

Events

Jan 30, 2017-Free online courses on evidence-based undergraduate STEM teaching and learning. The Center for the Integration of Research, Teaching, and Learning (CIRTL) is running two online courses in the spring, focusing on advancing evidence-based STEM education at the college level. The 8-week courses start January 30. 1) **An Introduction to Evidence-Based Undergraduate STEM Teaching** is designed to provide future STEM faculty, graduate students and post-doctoral fellows with an introduction to effective teaching strategies and the research that supports them. 2) Advancing Learning through Evidence-Based STEM Teaching focuses on the "teaching-as-research" framework. Participants will learn about effective teaching strategies and the research that supports them. Sign up by clicking the links above.

Funding

Spencer Foundation Small Research Grants Program–Deadline: 2/1/17. Through its Small Research Grants Program, the Spencer Foundation awards grants of up to $50,000 to fund academic work that contributes to the improvement of education, broadly conceived. Examples of previously funded projects include an experimental study of how college students use visual representations in solving math problems; a study exploring the process of racial and rural identity formation among African American high-school students who attend de facto segregated schools in the rural South; and a mixed-methods study focusing on the different types of knowledge novice and experienced teachers draw on in teaching reading comprehension. More-->

L'Oréal USA For Women in Science fellowship program–Deadline: 2/3/2017. This program awards five women postdoctoral scientists annually with grants of $60,000 each for their contributions in STEM fields and commitment to serving as role models for younger generations. L'Oréal USA partners with the American Association for the Advancement of Science (AAAS) to manage the program's application and peer-review process. **More-->**

NSF Computer Science for All Solicitation–Deadline: 2/28/17. The National Science Foundation recently released a new solicitation for Computer Science for All: Researcher-Practitioner Partnerships, a program that aims to provide K-12 students the opportunity to participate in computer science (CS) and computational thinking (CT) education. With this solicitation, NSF focuses on researcher-practitioner partnerships that foster the research and development needed to bring CS/CT to all schools. Specifically, this solicitation aims to provide high school teachers with the preparation, professional development, and ongoing support they need to teach rigorous computer science courses, and K-8 teachers with the instructional materials and preparation they need to integrate CS/CT into their teaching. More-->

Resources

UC guidelines for addressing race & gender equity in academic programs–This week, the University of California Office of the General Counsel released Guidelines for Addressing Race & Gender Equity in Academic Programs in Compliance with Proposition 209. The guidelines are intended as a resource for university administrators considering measures the university can legally implement to support the commitment to diversity. The guidelines provide general strategies that apply to all university diversity programs, as well as separate strategies that address issues specific to undergraduate, graduate, and faculty diversity. **More-->**

Dedicated diversity web portal from NIH–National Institutes of Health (NIH) new diversity portal has four main areas of focus: 1) Background on NIH initiatives in support of scientific workforce diversity; 2) Resources for scientific leadership & faculty members to use to further diversity in their programs; 3) Resources for investigators and trainees to develop their careers, find training and mentorship, and learn about others' careers through personal stories and video interviews; 4) Reports and data on diversity in the research workforce. Additionally, the site provides direct links to NIH institute and center-specific programs related to supporting diversity in particular research areas. **More-->**

New journal: Citizen Science: Theory and Practice–This new open-access, peer-reviewed journal is published by Ubiquity Press on behalf of the Citizen Science Association. It focuses on advancing the field of citizen science by providing a venue for citizen science researchers and practitioners - scientists, information technologists, conservation biologists, community health organizers, educators, evaluators, urban planners, and more - to share best practices. **More-->**

News and Views

American Talent Initiative strives to diversify colleges–Michael Bloomberg's foundation introduced a new initiative this week that aims to create a coalition of colleges that publicly commit to becoming more diverse. Bloomberg hopes the effort will make college more accessible to the middle class. The initiative specifically aims to increase the number of low-income Pell Grant recipients attending the 270 colleges with the highest graduation rates to 50,000 in the next 10 years, an increase of more than 10%. **UC Berkeley is among the initial 30 members of the coalition. According to the College Access Index, Berkeley was the leading college for economic diversity in 2015, with 23 percent of its first-year class receiving Pell Grants.** More-->

East Bay YMCA debuts CIRCLe lab pilot in East Oakland. CIRCLe Labs are the fruition of years of research about roadblocks minorities and women face in pursuing STEM education. The CIRCLe Labs pilot project is an initiative of the Institute for STEM Education, founded in 2011 at California State University, East Bay, to serve as a "backbone institution" that leverages the Bay Area's existing strengths in STEM education, reduces costs, and builds new collaborations. They are also the result of important leadership from East Bay industry and policy leaders and the East Bay Economic Development Alliance, which has brought the resources of local governments and businesses into STEM education outreach. More-->

A victory for high-achieving poor and minority students–The U.S. Department of Education recently released the final version of regulations to implement the Every Student Succeeds Act's (ESSA) accountability provisions. It incorporates a number of changes, one of which is particularly praiseworthy: States can now create accountability systems that measure student achievement at

multiple levels—not just "proficient"—using a performance index. Despite the good intentions of No Child Left Behind, which ESSA replaced a year ago, it erred by encouraging states to focus almost exclusively on helping low-performing students achieve proficiency and graduate from high school. Consequently, many schools ignored pupils who would easily pass state reading and math tests and earn diplomas regardless of what happened in the classroom—a particularly pernicious problem for high-achieving poor and minority children, whose schools generally serve many struggling students. This may be why the United States has seen significant achievement growth and improved graduation rates for its lowest performers over the last twenty years but lesser gains for its top students. **More-->**

Major research universities to participate in new grad student survey in 2017. The Student Experience in the Research University (SERU) Consortium is an academic and policy research collaboration based at UC Berkeley Center for Studies in Higher Education at the University of California (CSHE) working in partnership with the University of Minnesota, the International Graduate Insight Group Ltd (i-graduate), the Higher School of Economics in Moscow, and member universities. The gradSERU Survey is designed to answer questions about the potential relationship between graduate education experiences, program characteristics, and development outcomes of master's and doctoral students at the leading research universities across the globe. More-->

Badges for college credit. Badge systems are emerging, especially in the realm of digital learning, as tools to award learning and achievement outside of schools. A challenge, however, is understanding how to integrate badging in a way that meaningfully assesses learning associated with badges and leads to something meaningful outside of the program in which the badges were earned. A badge system successfully integrated with early college credit could open new pathways for high school-to-college transitions for students with STEM interests. The Badges for College Credit (BCC) project, funded by NSF, is a four-year project that connects informal science learning with higher education by designing badge systems that recognize informal science learning in the form of college credit at the University of Washington Bothell (UWB). **More-->**

Blog Post: The social contract of science education–Brian Drayton discusses public engagement of scientific practices and STEM learning. **More-->**

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-->

Our address is: education.outreach@lists.berkeley.edu.

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