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1 message

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CEO Updates

January 15, 2017

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

Spotlight

Tues, Feb 14, noon-1:30 pm. Successful partnerships with schools. This session profiles several successful partnership projects within local public schools. Project organizers discuss the key ingredients necessary to mount successful in-school partnerships. Location: 303 Doe Library. [More-->](#)

Events

Tues, Jan 24, 4:00-5:00 pm-Environmental literacy webinar for middle school teachers. This free webinar is designed to help middle school teachers leverage students' interest in the environment and deepen their understanding of history. [Register-->](#)

Thurs, Jan 26, 11:00am-12 noon, The Outlook for science in the new administration. This free webinar is sponsored by the American Association for the Advancement of Science (AAAS). Former Congressman Rush Holt and American Enterprise Institute Resident Scholar Norman Ornstein will discuss the future of science and technology policy in the first 100 days of the Trump administration and beyond. [Register-->](#)

Funding

NSF STEM + Computing Partnerships (STEM+C). Deadline: 3/29/17. This program addresses the urgent need to prepare preK-12 students in the essential skills needed to succeed in a computationally-dependent world. STEM+C advances the integration of computational thinking and computing activities in early childhood education through high school to provide a strong foundation in computing and computational thinking through the integration of computing in STEM teaching and learning, and/or the applied integration of STEM content in pre-K-12 computer science education. **NSF will provide four free STEM+C webinars on Jan 24, Jan 25, Feb 1, Feb 2.** [Register for a webinar.](#) [More on STEM+C-->](#)

AEA scholarship program for Oakland high school seniors. Deadline: 2/27/17. The Asian Employees' Association (AEA) at the Port of Oakland is a non-profit organization founded by Port employees in 1991 to inspire and reward outstanding academic achievement among Oakland high school students of any ethnicity, as well as children of current Port of Oakland employees, through the AEA Scholarship Program. AEA has been offering scholarships to high school seniors residing in Oakland to encourage them to attend college after graduation. The program has grown steadily over the years and has awarded over \$300,000 in scholarships. [More-->](#)

EdFund scholarships for students in West Contra Costa. Deadline: 3/3/17. Current high school seniors attending a public school within the boundaries of West Contra Costa Unified School District who have completed their FAFSA or California Dream Act Applications are eligible to apply for an Ed Fund Scholarship and receive up to \$1,000-\$5,000 for their first year of college. [More-->](#)

Opportunities

Minority science writers internship. Sponsored by the American Association for the Advancement of Science (AAAS), this 10-week paid internship includes funding for travel to and from the internship site in Washington, DC. Living accommodations and expenses are the responsibility of the Intern. The internship runs from June to mid-August. [More-->](#)

The American Alliance of Museums fellowship. [Deadline: 1/20/17](#). The AMA's fellowship program is designed to nurture greater inclusivity—for the benefit of museums, museum professionals, and the diverse audiences they serve—by supporting the professional development of individuals from underrepresented or marginalized groups. [More-->](#)

Resources

STEM education certification program. This new framework for STEM education, developed by the York Academy of Sciences, is based on the latest learning science and education research. It is freely available and is intended for use by curriculum developers, content providers, teachers, students, parents, school leaders, policymakers, and philanthropists. [More-->](#)

New resource on professional development for STEM grad students. This report from the Council of Graduate Schools (CGS) provides promising practices, common challenges, recommendations, and possible next steps toward coordinated improvements to the professional development of STEM graduate students. [More-->](#)

News and Views

WIRED opinion piece: Universities must help educate woefully uninformed lawmakers. In its budget-cutting zeal over the past two decades, Congress reduced staff funding by roughly a third—meaning many of the economists, issue experts, and agency veterans responsible for managing fact-finding hearings and designing major legislation lost their jobs. So, too, did dozens of researchers at Congress' other leading analytical agencies, the Government Accountability Office and Congressional Research Service. As the new 115th Congress grapples with how to legislate in the context of fake news and rising technological complexity, this situation has increasingly serious consequences. [More-->](#)

Do competitions ignite interest in STEM? There is an abundance of youth competitions for inspiration and recognition of science & technology (e.g. [FIRST Robotics](#), [EngineerGirl Essay Contest](#), and [Technovation](#)). Many of these are based on the idea that competing can inspire students to excellence and provide valuable real-life experience, but the question remains whether competitions are the best way to get youth involved in STEM activities. [More-->](#)

Implementing NGSS: Operationalizing science practices for K-12 classrooms. The Next Generation Science Standards (NGSS) are composed of three intertwined dimensions—disciplinary core ideas, science and engineering practices, and crosscutting concepts. Based on an extensive literature review and informed by a panel of expert practitioners, Horizon Research Inc. has developed a primer to unpack the NGSS science practices. The primer outlines key elements of each practice—what students should be doing when engaging with each science practice—and provides examples of how these key elements might play out in classrooms across different grade levels and subject areas. [More-->](#)

Early childhood education yields big returns. There's a growing body of research on the value and importance of high-quality early education programs, especially for disadvantaged kids. A recent paper, [The Life-Cycle Benefits of an Influential Early Childhood Program](#), co-authored by Nobel laureate James Heckman, a professor of economics at the University of Chicago, reveals

the outcomes of a long-term research study that found a 13% per annum return on early childhood programs. [More-->](#)

2016 education research highlights. Edutopia recaps this year's education research. Among the 15 notable findings: all students benefit from racially diverse schools; student homelessness is rising; and suspensions are cut in half when teachers are encouraged to use positive approaches to discipline. [More-->](#)

Big ideas that matter: Blueprint 2017. Leading philanthropy scholar Lucy Bernholz is the author of [Philanthropy and the Social Economy: Blueprint 2017](#), published by GrantCraft (a service of Foundation Center). Bernholz's annual forecast highlights two trends that civil society will need to address in the new year: the blurring of boundaries between politics and philanthropy as civil-society norms of privacy and anonymity are used to hide political activity; and the threat to free expression and association posed by the commercial ownership and government surveillance of the digital infrastructure on which civil society depends. [More-->](#)

Google.org awards \$30M for edtech, nonprofits. Google recently announced grants totaling \$30 million to enable nonprofit organizations to provide phones, tablets, hardware, and training to communities that need them most. Of the \$30 million total — reportedly donated on behalf of Google employees as their annual holiday gift instead of the gadgets employees received in previous years — \$5 million will be used to fund projects on [DonorsChoose.org](#), a crowdfunding site for teachers seeking funds to purchase specific items for their classrooms. The rest of the funds were awarded to a variety of nonprofits, including [Abode Services](#), which provides re-housed people in the Bay Area who had been homeless with laptops and access to employment, social services, and transportation information; [LeadersUp](#), which works to connect unemployed young adults to careers with family-sustaining wages; [UNETE](#), which provides computers, tablets, and charging stations to classrooms across Mexico; and [Pratham Education Foundation](#), which will use the funds to expand its efforts to help children in rural Indian communities learn. [More-->](#)

About CEO. The Coalition for Education & Outreach (CEO) is 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 publish this newsletter, host a listserv, and hold monthly workshops and events to foster collaboration and learning. [Learn more/subscribe here-->](#)



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