



BERKELEY LAB

LAWRENCE BERKELEY NATIONAL LABORATORY



U.S. DEPARTMENT OF
ENERGY

Berkeley Lab

In the Community

March 20, 2014

Community Programs:



Workforce Development & Education

As part of the Lab's education mission to inspire and prepare the next generation of scientists and engineers, the Workforce Development & Education runs numerous education programs for all ages of students—from elementary school to college undergraduates—as well as for high school and college science teachers.



Nano-High

Started in 2003, Nano-High is a series of Saturday morning lectures focused on the cutting-edge scientific issues of the day, from molecular medicine to nanoscience, from solar energy to the math behind Sully, Remy and Buzz Lightyear. Nano-High talks are aimed at high school students.



Friends Of Berkeley Lab

Membership in Friends of Berkeley Lab means being able to engage directly with Lab scientists, tour the Lab itself and participate in special topic discussions. It also means being the first to hear about new discoveries, new content on our website and special programs and activities designed to broaden your understanding of science.



Science At The Theater

Join a panel of scientists as they reveal the latest research on subjects such as cool roofs, dark energy, and carbon reduction. These events, which are sometimes standing room only, take place in the Spring and Fall at the Berkeley Repertory Theatre and are free and open to the public.



Open House

Once a year Berkeley Lab opens its doors to the public for a free day of science and fun, including scientific demonstrations, lectures from some of the Lab's most eminent scientists, activities for children, tours of world-class facilities and opportunities for the public to learn about a broad range of science, from advanced computing to tabletop accelerators.

Community Programs:



Community Advisory Group

The Berkeley Lab Community Advisory Group (CAG) was formed in 2010 to provide input into the Lab's physical plans and development projects. The CAG focuses primarily on land use, community health and safety, and the environment. CAG members include representatives from diverse groups interested in how the Lab's actions affect the quality of life and environment in Berkeley and the greater region.



Education Program At SC Conference (Supercomputing)

Each year, the leading professional societies for computer science (ACM and IEEE) co-sponsor the SC Conference. Lab staff have participated in the conference's four-day education program open to high school and undergraduate teachers, where the teachers learn about high-performance computing and how it can be integrated into the curriculum.



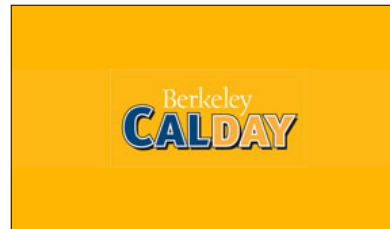
Support For Community Organizations

Berkeley Lab supports a variety of local, nonprofit community organizations. At Rebuilding Together, Lab employees work to make local home improvements to support low-income, disabled seniors. The Rising Sun Energy Center provides free workforce development training and to create green careers for youth and adults. The Lab has sponsored student work crews to perform energy audits and retrofitting of homes in Berkeley.



Solano Stroll

Berkeley Lab participates each year in the East Bay's largest street festival by hosting a booth with activities such as "Ask a Scientist."



Cal Day – UC Berkeley's Open House

Lab staff host a booth to provide information to the nearly 40,000 attendees regarding the Lab's research and its student internship programs.

Community Programs:



Human Resources Interview Training

The Lab's Human Resources division worked with the California Department of Rehabilitation to conduct a one-day mock interview workshop for individuals with disabilities.



Albany High School's Annual Job Shadow Day

As part of Albany High School's annual Job Shadow Day, students shadow Berkeley Lab scientists, mathematicians, engineers, technicians, and communications staff. Based on their choice of potential career paths, students are matched with mentors at the Lab's main campus, the National Energy Research Scientific Computing Center (NERSC) in Oakland, and the Potter Street biosciences research center.



Information Technology (IT) Division's Second-Grader Workshop

The Lab's IT Division hosts Berkeley second-grade students every year for some hands-on computer fun. IT staff developed a curriculum that helps teach students how computers and networks support science at Berkeley Lab. Over 60 students and parents participated in the 2011 event, which one chaperone called "the best field trip of the year."



Nuclear Science Day For Girl Scouts And Boy Scouts

Sponsored by the Lab's Nuclear Science Division and the Work Development and Education (WD&E), the Lab hosts Scouts from more than 30 troops. Scouts receive a tour of the 88-Inch Cyclotron, build electroscopes and models of the atom, measure radioactivity, qualify for badges, and learn about career paths in nuclear science.

Community Objectives:

- Community Engagement
- Enhancing Education
- Nurturing Local Business

Community Engagement:

75%



SCIENCE at the THEATER
BERKELEY LAB

Vote for the Next Big Tech Idea!

You and three judges vote on technology pitches from five Berkeley Lab scientists. Which will benefit society the most? You decide.

				
Making Better Batteries Guoying Chen, Chemist	Tracking and Hacking Personal DNA Damage Sylvain Costes, Biophysicist	Making Energy Measurement Stick Steven Lanzetta, Applied Energy Scientist	Molecular Velcro Gloria Olivier, Chemist	Dress Code for Martians Alex Zetti, Physicist

JUDGES: BRADEN PENHOET, UC Berkeley visiting scholar and consultant; ROBIN JOHNSTON, Director of Commercialization, JBEI; PETER FISKE, scientist, author, CEO of PAX Water

2/24 7-9 P.M. FREE ADMISSION
Berkeley Repertory Theatre / Roda Stage / 2025 Addison Street

Visit [FriendsofBerkeleyLab.gov](https://www.friendsofberkeleylab.gov) to RSVP

Community Engagement:



Community Engagement:

Perception Survey results

40 – 60 – 80

60 – 75 – 80

Community Engagement:

What the public likes about Berkeley Lab

- help the developing world
- bring real-life benefits (applied technology)
- fight climate change
- try to understand the universe
- support science education
- have a record of achievement (Nobel prizes)
- create jobs

Enhancing Education:

Educational Visits (2013)			
5 th Graders			
	75 visits	32 students per visit	2400 per year
6 th Graders			
	36 visits	32 students per visit	1152 per year
Classroom Visits			43 per year
Undergraduate Internship Visits			94 per year

Workforce Development: 1000 university students per year as employees/interns; 500 postdocs on staff

Nurturing Local Business:

Procurement Dollars Spent

- Berkeley, \$22 M
- Walnut Creek, \$14M
- Oakland, \$3.8M
- Emeryville, \$390K

Nurturing Local Business:

Berkeley Suppliers

- A3GEO
- Ashby Plumbing Supplies
- Berkeley Plumbing & Heating
- Ellison Technologies
- Quantum Energy Technology Services
- Biointuition
- Rising Sun Energy Center
- Allan Kropp Associates
- IDS Courier



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