



Educational Outreach:

- Caltech faculty, researchers and students onsite
 at local schools
- Off-campus events for K-12 teachers and students



• K-12 students and teachers on the Caltech campus











Local Public School Demographics

Pasadena Unified School District

Hispanic 60.2% African American 15.3% Caucasian 15.1% Asian 5.9% 67.5% Qualify for Free or Reduced Lunch

Los Angeles Unified School District

Latino 74.0% African American 8.4% White 9.8% Asian 6.0% Pacific Islander 0.4% American Indian/Alaskan Native 0.2% **75.7% Qualify for Free or Reduced Lunch**



ACADEMY

Mobile, Web and Game Development

k

Electrical power generation & delivery

Pasadena High School

Home of the Bulldon

ation & conversion very





Energy

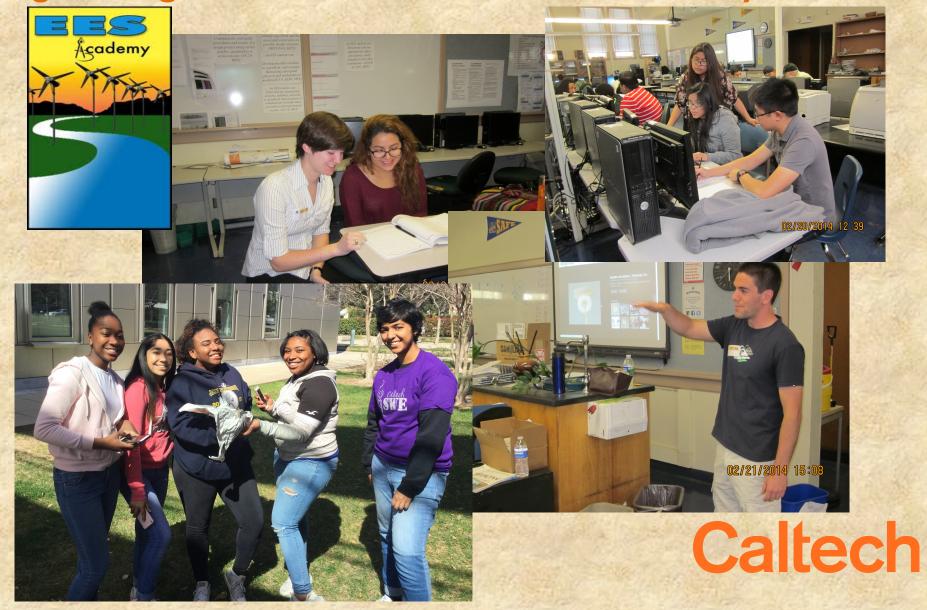




processing &

transmission

Muir High School Engineering and Environmental Science Academy







Coding in the Classroom



Coding in the Classroom



Visiting Scientists



Visiting Scientists





50+ High School Students



Community Science Academy

Workshops Summer program Lessons Instruments Caltech PCC People Announcements

Community Science Academy

The Community Science Academy @ Caltech (CSA@Caltech) is a professional learning community and science teaching center promoting research in areas relevant to community needs, e.g. agriculture, environment, urban planning, etc. Toward this end, we work with schools and universities to teach core science and engineering skills, and to guide students and other citizens in relevant research. We collaborate with Caltech researchers to translate their work into educational opportunities and experiences.

We develop custom instrumentation, assays, software, and curriculum; perform outreach, teacher training, and professional development; work on community science and educational research projects; and teach at all levels.

CSA@Caltech is supported by the Provost's Office and the Betchtel Foundation, who has





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7/28/2015

Science for the Community

n garden.

On the grounds of San Marino's Huntington Library, Art Collections, and Botanical Gardens—to the north of the Chinese Gardens, in the private, half-acre Huntington Ranch area—nearly two dozen middle- and high-school students have been spending this summer measuring the north the soils around them to help the whether its soil is up to the challenge of

> arch experience is part of the Community Science n, which is affiliated with Caltech's Center for and Outreach (CTLO). The 23 first-timers in what studying biological systems at the ranch; a similar ng students, in CSA 2, are studying engineering and are building their own scientific instruments.

hree days a week for six weeks. For CSA 1 on June 15 with soil sampling; by July 24, when it have designed and performed their own

w in its second year. It initially was funded with onal institutes of Health Director's Pioneer Award or 6 Biology Bruce Hay. In addition, the Pasadena tion and the Siemens Foundation currently scholarships that allow all students from the chool District to attend the poreram free of

most days with lectures by members of the v student is issued an iPad and keyboard for note k. This technology allows the lectures to become ations using software that allows constant

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APPLY GIVE DIRECTORY ACCES

(Pictured from left to right): Kate Samaniego and James Maloney (Caltech) Credit: Lance Hayashida/Caltech

Research & Education





6 High School Students

I





20+ High School Students 5 Teachers Summer Research Connection CALIFORNIA INSTITUTE OF TECHNOLOGY

LIL-DD



Goentoro Lab: Systems Biology

Biology is complex and confusing; however, studying biology as a vast number of interconnected systems helps us make more sense of it. Questions include: How do living things communicate? How do they react to their surroundings? How do they interact with other living things?



