

C & I Science Subcommittee

Purpose: Build county-wide conversations through inquiry, collaboration, and shared practices

Google Site: bit.ly/CCCOE-SCIENCE

Agenda: bit.ly/CCCOE-Science-Mar20

[Slides](#)

Tuesday, March 3, 2020

9:00 am to 11:00 am

Welcome and Introductions (5 min)

Environmental Literacy and Importance of Outdoor Education (10 min)

Focus on Outdoor Science Learning (50 min)

- Forestry Challenge - Diane Dealey Neill, Executive Director dianedealeynell@gmail.com
- John Muir Land Trust - Arthur Bart-Williams, JMLT Board and Vizzit CEO arthur@vizzit.co and Linus Eukel, JMLT Executive Director linus@jmlt.org
- Save Mt. Diablo - Ted Clement, Executive Director tclement@savemountdiablo.org
- Central Contra Costa Sanitary District - Ben Lavender, Community Affairs blavender@centralsan.org

CAST Results Analysis (40 min)

NGSS / CDE / NSTA/ CSTA Updates (15 min)

- [Vizzit NGSS & Environmental Literacy Discovery Project Cohort 3](#)
- Spotlight on Opportunities

Other District Updates

- **Outdoor Science Camps Lists for Sharing**

NGSS Environmental Literacy Resources

Information:

[Environmental Principles and Concepts \(EP&C's\) Handout](#)

[A Call to Action for County, District and Educational Leaders](#)

[CDE Environmental Education and Environmental Literacy](#): Information on current environmental literacy resources and grant opportunities

[CDE Environmental Literacy Resources](#): Link to resources

[Natural Teachers Network](#): Tools and Resources from Children and Nature Network

[CAST Resources](#): Links to resources for teachers, administrators, and communication to parents

Teacher and Classroom Resources:

[Vizzit App](#): GPS-based self-guided tours in nature or other places

[California Education and Environment Initiative \(EEI\)](#): free instructional materials

[HHMI/University of California Museum of Paleontology](#): resources for teacher

[Biomimicry](#): blending science, design and engineering by mimicking nature's solutions

[Exploratorium Science Snacks](#): mini lessons

Cal Academy of Sciences:

- [Earth Science Lessons](#)
- [Educational Videos](#)
- Apps that match photos of plants and animals taken by user with huge online database:

- “iNaturalist” for teachers and secondary students
- “Seek” for students 13 and under

[Project WET](#): Focused on water education

[Energize Schools](#): Science Curriculum with Sustainability, Free to CA Teachers

[Science: It's Elementary Formative Assessment Resources](#) from CDE Contest Winners

[Stopwaste.org](#): Resources to reduce waste at schools, at home or at work

[Community Resources for Science](#)

Opportunities for Students:

[Every Kid Outdoors](#): Free admission for all fourth grade students and their families

[Biomimicry Youth Design Challenge](#): Engineering design contest

[World of 7 Billion](#): video contest

[Lexus Eco Challenge](#): team project contest

Community Partners:

Contra Costa County Library Branches: Energy Efficiency Toolkit (can be borrowed)

[Bay Area Air Quality Management District](#): Local information and grant opportunities

[Contra Costa County Office of Sustainability](#): Local agency to get involved

Upcoming Events and PL:

- Exploratorium: [STEM Conference](#): All Systems Go! Investigating Earth Systems Science in All Science Classrooms Mar 7, 2020 \$50, 50% discount for Title 1 School teachers. Registration opens on Dec. 2
- [CA Academy of Science Teacher Workshops](#):
 - Urban Science: the City as Classroom (gr. 6-12) Mar. 21 9:00-3:30 \$35
 - Low Floor, High Ceiling: Engaging Every Student (gr. K-12) Mar 7 9:00-3:30 \$35
- [Chabot Space and Science Field Trip for Teachers](#): Empowering teachers to Build Environmental & Climate Literacy: Engaging Students, Taking Action. Saturday, March 14 8:30-1:00 FREE

Summer Events and PL:

- [Forestry Institute for Teachers](#): one week summer program for K-12 teachers FREE with \$25 application fee before March 15, 2020.
- [Maker Ed Institute](#): Curriculum design and planning for maker education program. June 22-26, 2020. Cost based on sliding scale. Deadline to apply is March 20, 2020
- [UCSF Cellular Reconstruction Workshop](#): Workshop for high school student or teachers teams that combine biology with engineering, robotics, and programming to understand cell behavior. June 15-26 or July 20-31. Deadline to apply is March 13, 2020.
- [Summer Institute for Teachers at Exploratorium](#) grades 6-12. June 16-July 2. Free, with \$2,500 stipend upon completion. Deadline to apply is March 15, 2020.

Upcoming Science Subcommittee Meetings 2019-2020 - 9:00 am to 11:00 am, CCCOE

★ May 14, 2020

