



Hawai'i Environmental Education Symposium 2017

Thursday, June 08, 2017 - Saturday, June 10, 2017

SUMMARY OF WORKSHOPS OFFERED ON JUNE 8th

Overall Symposium Information:

Location: Hawai'i Volcanoes National Park & Kīlauea Military Camp

For more information about this year's symposium, please visit this page:

<http://heea.org/core/item/page.aspx?s=129637.0.0.89929>

To discuss room- and ride-sharing with other participants, please join our Facebook Group, "We Are HEEA," and start or join a conversation: <https://www.facebook.com/groups/WeAreHEEA/>

Questions? Email eesymposium@heea.org or call (808) 283-1631

Morning workshops held at Kīlauea Military Camp:

1) NOAA Grants Workshop

(*This is a FULL DAY WORKSHOP, 10 am – 5 pm; please do not sign up for an afternoon workshop if you sign up for this one.)

Preparing a federal grant application can be intimidating, so the NOAA Pacific Region Grant Cooperative developed a training to address fundamental elements that need to be present in any basic proposal. This workshop includes information on available funding, how to review a federal funding opportunity, where the critical information required for your application is located, how to represent your project ideas, and basic budget details. Workshop activities will help you develop objectives and goals for your project, and we will provide tips and tricks from reviewers as well as common mistakes to avoid!

Maximum number of participants: 30

2. Hawai'i Project Learning Tree; Empowering Educators, Inspiring Students (10 am-1 pm)

An award-winning environmental education program, Project Learning Tree (PLT) is designed for teachers and other educators, parents, and community leaders working with youth from preschool through grade 12. PLT uses trees and forests as windows on the world to increase students' understanding of the environment and actions they can take to conserve it. PLT's instructional materials can be used with students in formal school settings and with youth in nonformal settings. In this workshop participants will:

- Experience a PLT lesson
- Discover connections between PLT lessons, state standards and STEM.
- Discuss ideas on how PLT lessons can be incorporated in their classroom/ organization to best fit their teaching goals and learners needs
- Gain access to PLT resources and new opportunities (every participant will receive an Environmental Education Activity Guide for their grade level).

Lessons to be shared will focus on the topic of climate change and/or aimed to increase climate literacy in learners.

Maximum number of participants: 30

3. Teaching & Learning Resources for Climate Education in the Pacific (10 am – 1 pm)

The Pacific islands Climate Education Partnership (PCEP) is a collaborative network of educators and community partners working toward a new vision of climate education that exemplifies modern science and local ecological knowledge, while addressing the urgency of climate impacts in the Pacific. Our project, funded by the National Science Foundation, serves the U.S.-affiliated Pacific islands, including Hawai'i, American Sāmoa, Guam, the Commonwealth of the Northern Mariana Islands, the the Marshall Islands, the Federated States of Micronesia, and Palau. In this workshop, participants will explore several PCEP resources (<http://pcep.prel.org/resources/>) as tools to support teaching and learning about our environments. Activities will be aligned with PCEP's approach to place-based education, as well as the Next Generation Science Standards and Climate Literacy Principles.

Maximum number of participants: 30

Afternoon workshops held at Kīlauea Military Camp:

1. Nā Hopena A'o: A Gifts Based Education Approach (2-5 pm)

During the presentation, participants will learn about the development process of HĀ and the construction and significance of the framework. The presentation is intended to bring clarity of understanding to the intentions of HĀ as outcomes for all grounded in Hawai'i and how it can be used to support a gifts based education system where haumana and kumu thrive alongside ohana and kaiāulu. We will learn and share how schools are incorporating HĀ and expanding the classroom beyond the 4 walls of the school to engage with the 'āina. To conclude, we will engage with Auntie Pua Burgess's activity on Building Beloved Community and identify the gifts that we bring to the education space. This work sets the foundation for any future engagement with the HĀ framework and provides the needed knowledge base to embrace HĀ.

Maximum number of participants: 50

2. NGSS-Aligned Climate Change Education Within and Outside of Schools (2-5 pm)

Building on extensive work in science and environmental education as well as work over the past six years as co-PI of the Pacific Islands Climate Education Partnership (PCEP), the presenter will share a systems-based conceptual science framework that helps people understand the causes and impacts of climate change globally and locally. Systems-based and place-based resources will help guide understanding and implementation of strategies to increase climate resilience of local ecosystems and community systems (e.g., food and water security). The presentation will introduce a focus on alignment with Next Generation Science Standards (NGSS) that will be maintained and expanded through group discussions. The workshop begins with introductions and an agenda overview that lead into sharing, explaining and discussing the science conceptual framework and NGSS. Participants work in teams to explore one of three linked interactives that the presenter developed with WGBH (carbon

cycle; Earth energy flows/greenhouse effect; climate change impacts). Participants share with each other what they have learned via a jig-saw, gallery walk that the presenter helps summarize via a whole group discussion of climate change causes and impacts. Presenter will also share other PCEP place-based resources that enhance formal education of modern climate science in coordination with local traditional knowledge and skills. These resources help empower communities to evaluate adaptation strategies leading to increased resilience of local ecosystems and community systems.

Maximum number of participants: 30

Offsite Excursions at Other Locations:

1. Mauna Loa Observatory Tour

Time: Meet at Mauna Loa Observatory. Tour will take place from 12:00 – 2:00 pm. *Transit time is approximately 4.5 hrs round trip from KMC (~2 ½ hrs from KMC).

Transportation: Participants will need to arrange own transportation. Carpooling is encouraged.

Bring: warm clothes, closed toe shoes, sun protection, water bottle, notebook, camera

More information: Join a special excursion to the Mauna Loa Observatory's Earth System Research Laboratory, that has been continuously monitoring and collecting data related to atmospheric change since the 1950s. This tour will touch on the facilities, history and formation of MLO and then focus on the current research projects. It will focus on 5 major research areas that have an influence on our climate which include Green House Gases, Stratospheric Ozone, Stratospheric ozone destroying molecules, aerosols, and solar radiation. Space will be limited, so sign up early for this unique opportunity! **Note: this excursion will take place at ~11,000' elevation and may be strenuous and less advisable if you have any health concerns. Please take this into consideration when registering. Additional details on logistics will be sent out before the tour.

Maximum number of participants: 20

2. Kū 'Āina Pā Summer Intensive Teacher Presentations

Time: 1:00 – 3:30 pm. Leave KMC at 12 noon, or meet directly at Hawaii Academy of Arts and Science in Pāhoa at 1 pm).

Transportation: Participants will need to arrange own transportation. Carpooling is encouraged.

Bring: water bottle, sun protection, notebook, camera

More info: Join the last day of the Kū 'Āina Pā Summer Intensive, a three day workshop where teachers have been Navigating the Hawai'i School Garden Curriculum Map and Created a Standards-Based Garden Program for their Classroom. Teachers will present their standards-based lessons and share resources from Garden Curriculum Maps. Take home lessons learned. <http://kohalacenter.org/kuainapa>

Maximum number of participants: 20