

INTERACTIVE WORKSHOPS TO CHOOSE FROM FOR 3rd-12TH GRADE STUDENTS, THEIR PARENTS, AND TEACHERS



Astronaut Lacy Veach Day of Discovery

Saturday, October 26, 2019
Kamehameha School Kapalama

*"You've got to believe in your dreams,
and you've got to be hard-headed
enough to never let them go."*

Charles Lacy Veach, Astronaut

7:45 - 8:15 a.m.	Check in (Princess Ruth Ke'elikōlani Performing Arts Center)
8:30 - 9:30 a.m.	Opening general assembly (Princess Ruth Ke'elikōlani Performing Arts Center) Nainoa Thompson, Polynesian Voyaging Society
9:45 - 10:35 a.m.	Workshop Session I (Konia, Midkiff Learning Center)
10:45 - 11:35 a.m.	Workshop Session II (Konia, Midkiff Learning Center)
11:45 a.m. - 12:30 p.m.	General Assembly (Princess Ruth Ke'elikōlani Performing Arts Center) Joe Acaba, NASA Astronaut

WORKSHOP 2019-01 Mystery and Intrigue: the Wide World of Electricity

Rogelio Buccat, Hawaiian Electric team

Build a battery storage experiment and learn about an exciting aspect of electricity.

WORKSHOP 2019-02 Letry robotics: Building the Circuits that run your Robot

Linda Wong, Stevenson Middle School students

Use the Letry robot to build circuits to operate a robot and use sensors.

WORKSHOP 2019-03 Designing Sails using Mav Lev

Randal Lau, Future Flight Hawaii

Use a magnetic levitation platform, design a sail to sail from Hawaii to Tahiti. Receive a solar powered grasshopper.

WORKSHOP 2019-04 Recycling Film Cans

Colleen Morimoto, Future Flight Hawaii

Using film cans, make a kaleidoscope, a rocket, and a powered boat.

WORKSHOP 2019-05 Paper Circuits

Mija Wheeler, Team Magma, Kalani High Robotics

Make your own low voltage circuit while learning about the function of circuits and basics of electricity.

WORKSHOP 2019-06 Discovering the Microscopic World

Lori Shimoda, Chaminade University

Experience how scientists use microscopes; prepare samples and use a variety of microscopes.

WORKSHOP 2019-07 Extreme Skydive Engineering

Charles Souza, Ryan Saito, Elemental Minds, 21st Century Educational Service

Design a device to keep your test pilot floating within the safe zone of the extreme skydiving wind chamber.

WORKSHOP 2019-08 Gelatin Volcanoes

Scott Rowland, SOEST, University of Hawaii

Use gelatin volcanoes to understand how magma travels from the magma chamber to the surface.

WORKSHOP 2019-09 Hands on CPR

Charles Griep, Honolulu Fire Department

Learn Life Saving Bystander CPR that can double or triple the chances of survival and could save a life.

WORKSHOP 2019-10 Hardware Science

Lisa Loo, Melanie Ho, HouseMart Ben Franklin Crafts, Ace Hardware

Use everyday hardware store supplies to explore simple STEM skills while learning about inertia, physics and math.

WORKSHOP 2019-11 Fossils: the Tales they Tell

Roger Kwok, Leeward Community College

Examine genuine fossils, what stories each specimen can tell, envision the lives of the animals that lived millions of years ago.

WORKSHOP 2019-12 Geometry using the Safe-ty Compass

Lee Kimura, Lisa Yamamoto, Ethan Kimura, Maya Kimura

Receive and use a Safe-ty kit with compass, ruler, protractor and learn how to use them for geometry.

WORKSHOP 2019-13 Toys! Toys! Toys

Stacy George, Institute for Teacher Education, University of Hawaii

Explore how toys can make you wonder about science.

WORKSHOP 2019-14 Racing Brushbots

Carole Kono, JoAnn Nakashima, Future Flight Hawaii

Make a mini sumo robot made from a toothbrush. Receive brushbot kit and an energy ball.

WORKSHOP 2019-15 Secret World of Viruses

Petra Byl, Adrian Gajigan, Anamica Bedi de Silva, Department of Oceanography, University of Hawaii

Infect a model host cell with a virus, while learning about what viruses are and how they are also beneficial to the environment.

WORKSHOP 2019-16 Coding Mini Push Button Robot

St. Louis Middle School Robotics

Code a mini programmable robot by pushing buttons and complete the challenge. Receive a mini push button programmable robot to continue to share with others.

WORKSHOP 2019-17 Exploring Galaxies

Larry Wiss, NASA Solar System Ambassadors Program

Explore the elements and different forms of galaxies and build a spiral galaxy pinwheel.

WORKSHOP 2019-18 Looking at Hawaii with a View from Space

Amber Imai-Hong, Andrea Gabrieli, Linda Martel, Hawaii Space Grant Consortium, Hawaii Institute of Geophysics and Planetology

Use satellite remote sensing and understand Hawaii and our planet.

WORKSHOP 2019-19 Vroom! Vroom!

Candice Sarangay, Society of Women Engineers, University of Hawaii

Create propeller powered cars with popsicle sticks and rubber bands applying air powered thrust and inertia.

WORKSHOP 2019-20 Inflatable Space Balloons and Small Space Satellites

Art Palisoc, L-Garde

Learn about inflatables and small satellites in space.

WORKSHOP 2019-21 Tripping the Light

Victor Velasco, Service Command (NEXCOM), InSynergy Engineering

With hands on experiences, learn about heliostatus and how sunlight is used for green energy.

WORKSHOP 2019-22 Applied Biogeochemistry in Waste Processing

Ned Murphy, FRGS, Central Planet Repair, LLC

Bacteria move electrons around in the natural world. Studying the interactions of biology and chemistry in the world such as in waste processing is biogeochemistry. Make a composter prototype to process coffee grounds.

WORKSHOP 2019-23 Citizen Forester

Wai Lee, Smart Trees Pacific

Become a Citizen Forester in Hawaii which includes a hands-on outdoor exercise with a tree.

WORKSHOP 2019-24 Pollinators of Hawaii

Jason Graham, University of Hawaii

Learn about the importance of bees for food production, social and solitary bees, their behavior and visual differences through a live beehive. Become a citizen scientist through contributing to active research.