

Astronaut Ellison Onizuka Science Day

"Make your life count and the world will be a better place because you tried." Ellison Onizuka, Astronaut

Saturday, January 28, 2017, University of Hawai'i at Hilo

Interactive Workshops to choose from for 4th – 12th grade students and parents and teachers of any grade level



WORKSHOP 01 Up Close with the Astronaut

NASA Astronaut, Johnson Space Center

Be inspired by an astronaut. Bring your questions of how to live and work in space, and how to become an astronaut. (Session II only.)

WORKSHOP 02 Computer Science without Computers

Jerry Brower, Christine Copes, Gemini Observatory

Explore computer science and how it is used to get the information from the telescopes to the rest of the world. Learn Computational Thinking in a zany and interactive way.

WORKSHOP 03 Forensic Science

Brian Koge, Hawaii Police Department

Physical & Chemical properties of matter help solve crimes.

WORKSHOP 04 Travel to Mars!

Punawai Rice, 'Imiloa Astronomy Center of Hawai'i

Take a virtual trip to the planet Mars. We'll be stopping off on the Moon and perhaps even on an asteroid as we stock up on all the things we need to survive in outer space.

WORKSHOP 05 Orientation to Flight

Todd Friel, Robert Roman, Diana Kelley, Dennis Taniguchi, Hallie Adolf, STARBASE Hawaii

Experience the exhilaration of flight using Microsoft Flight Simulator. Take the controls of a Boeing 747, Cessna 172 Sky-hawk or other aircraft available and get a pilot's eye view of the Earth. Read flight instruments and learn the Four Forces of Flight.

WORKSHOP 06 Solving a Hilo Bay Water Puzzler

Lisa Parr, Jason Adolph, UH Hilo Marine Option Program/Marine Science

Use tools of Oceanographers and test water samples to help solve a puzzle about Hilo bay.

WORKSHOP 07 litteBits Mini-bot Racer Challenge

Ginette Alipio, Rowan Drowns, Bree Turner, Andrew Turner, Little Oha Bitty Bytes

Design a littleBits Inchworm mini-bot, and engineer your mini-bot to race with other teams in a final inchworm race. Ideas to invent anything you can imagine with littleBits.

WORKSHOP 08 Finding Waldo the Alien

Jessica Stasik, Institute for Astronomy

In a universe with billions of galaxies, each with countless suns and planets, why is it that we aren't surrounded by aliens like we see in movies?

WORKSHOP 09 Powering the Big Island

Kenyan Beals, Hawaii Electric Light

Participate in a hands-on activity related to how energy is made and transferred.

WORKSHOP 10 Strawberry DNA Extraction

Susan Miyasaka, Russell Nagata, Joanne Lichty, Mike Shintaku, Dept. of Tropical Plant & Soil Sciences, UH

Learn about the molecule that encodes genetic information in living cells and how to extract deoxyribonucleic acid (DNA) from strawberries.

WORKSHOP 11 Using Everyday Hardware Items to Conduct Simple Science Experiments

Carrera Catugal, Jon Miyata, Adrian Sales, Ace Hardware Hawaii (HouseMart. Inc.) See the description in next column.

Science play a role in everything that happens around us every day. "Think like scientists" not only inside, but outside the classroom as well. Find all your science project needs in a hardware store.

WORKSHOP 12 Paper Circuits

Society of Women Engineers (SWE), University of Hawaii at Manoa

Create paper circuits to create art using LED lights and copper tape! Make a light-up greeting card, or a simple drawing.

WORKSHOP 13 Blooming Spices

Audrey Wilson, Dean Shigeoka, AJ and Sons Catering

Spices need to be heated to bring out their flavor as the flavors comes from the aroma from the volatile molecules. Smell wonderful aromas from the spices when we make Indian curry

WORKSHOP 14 Turtle Science

James Juvik, Turtle Conservancy

Examine live turtles to understand their roles in the global environment. Learn how turtles which have been here for millions of years have successfully adapted to survive.

WORKSHOP 15 Feeling-ology

Kate DeSoto, LCSW Mental Health, Dana De Soto, HCC

Explore the science of emotion through interactive activities and games.

WORKSHOP 16 The EYE: Seeing and Perceptions

Ahia Dye, Imiloa Astronomy Center

Why is the sky blue? How do your eyes see? How do our eyes and our brain communicate?

WORKSHOP 17 Be a Landsat Analyst Extraordinaire!

Amber Imai-Hong, Hawaii View, UH Manoa

Be the eyes of a satellite as a Landsat analyst/engineer in this hands-on challenge to learn why we look at Earth from space, how satellite images are made, the Earth science of Hawai'i, and how to track changes to our landscape over time.

WORKSHOP 18 Exploring Rainbows and the Universe

Yuko Kakazu, Subaru Telescope

Discover how light and rainbows help astronomers understand and explore the mysteries of the universe; make a spectrometer, a device used by astronomers to analyze light from stars and galaxies.

WORKSHOP 19 Racing Brushbots

Gayle Kamei, Waiakea Intermediate School PRIME team

Build and race your own Brushbot, made from a toothbrush and a cell phone vibrating motor. Receive other tools to do science demonstrations with friends and family.

WORKSHOP 20 Healthy Kids Club

Julia Zee, UH Manoa Cooperative Extension Service

Learn how food keeps us healthy and how to keep food safe to eat.

WORKSHOP 21 Engaging Displays

Engage your minds with the many interactive displays provided by various organizations in the UH Hilo library lanai and Campus Center Plaza.