Learn Lunar see and required the Come and Station Zooplankton interesting laser Discussion Kewalo a demonstration of how the gases from the exhaust of power plants and cars make our oceans more acidic, affecting life in the ocean.

SOEST Students’ Room (MSB 114) In a series of 15-minute talks, you’ll hear from enthusiastic SOEST scientists about the most interesting aspects of their research. Think TEDx SOEST Also in this line-up will be student panels where SOEST students share their excitement and experiences, and answer your questions.

From Creatures of the Sea to Rocks and the Unknown (MSB 203) See what is in the water with you when you are swimming, view live plankton under the microscope, view preserved samples of strange creatures from the deep ocean, and see how minerals fluoresce under ultraviolet light and how this property can be used to identify them. And, movie footage from a recent cruise to the North Pole!

Fluorescent Rocks (MSB 203) This display will also be a window to the wonderful world of fluorescent rocks. When certain rocks are exposed to ultraviolet (UV) radiation, they absorb it and re-emit light of a different wavelength (color).

Zooplankton — microcopic ocean drifters (MSB 305) Learn about this invisible population of oceanic animals that play a vital role in the world’s oceans.

Station ALOHA (MSB 306) Station ALOHA is located approximately 60 miles off the North Shore of O‘ahu and is the focal point of a large number of oceanographic studies where various research organizations have converged for over 26 years to produce a remarkable collection of observations about our dynamic oceans and atmosphere.

Surf Forecasting (MSB 307) Friday Only Basic science behind surf forecasting and examples will be shown.

Weather in a Tank (MSB 315) Watch different oceanographic and atmospheric processes such as the Pacific garbage patch and an ocean geyser occur in our rotating tank.

Environmental Sensors in Embedded Systems Lab (MSB 318) Brian Glazer lab and Mike Guindry’s embedded systems lab will combine forces to jointly host an indoor/outdoor wireless sensor, environmental, and biogeochronology extravaganza.

Journey into the Deep (MSB 602) Come with us on a journey thousands of feet below the sea surface, down into the dark depths of the ocean. This is the largest ecosystem on our planet and yet it is the least explored. Visit our lab to see specimens from the Antarctica deep ocean, wood falls and whale falls, and polymetallic nodule fields in the Pacific.

Hawai‘i’s Deep-Sea Creatures (MSB 624) In the dark, cold depths of the ocean, life thrives. Learn about what lives there and how by examining real deep-sea fishes, shrimps, and other animals.

Water Reuse for Energy Crop Growth (POST 06) Friday only Wastewater is treated and recycled to support energy crops that are also growing energy crops.

Biocarbon Production in Hawai‘i (outside POST 114) Friday only Biocarbon (charcoal) is the most promising of all biofuels. In addition to barbeque, charcoal is a required feedstock in the production of silicon used in laptop computers, cell phones, cameras, and telephones.

CO2E Island Earth (POST 127) Saturday only We will be sharing how scientists explore patterns in the natural fluorescence of coral to observe and monitor coral health. Stop by to check it out, and also try your luck at our marine science trivia game!

Coral Reproduction in Hawai‘i (POST 127) Reproduction is an important facet of the life cycle of reef-building corals, but one that is difficult to observe. We will provide pictures and videos of coral spawning, coral larvae, and small corals settled on tiles to describe coral reproduction in Hawai‘i.

Future Flight Hawaii—3, 2, 1, Blast Off (near POST 501) Launch a straw rocket to the Moon, Mars, and beyond... and play the space game wheel of fortune.

Hawaii’s Space Grant Consortium (POST 501) Learn about NASA opportunities that are available for undergraduate college students and activities that make up the Hi STEM pipeline catered to students at every age group.

Planetary Impact Cratering (near POST 49) Learn how impact craters form with small-scale impact experiments.

Inner Space: The “James Cameron Experience” (near POST 514) Friday only See the geology and biology of the world’s deepest ocean trench, up close and personal with one of James (director of “Avatar”) Cameron’s science advisors who participated on his expedition in 2012 in which he successfully dove in his one-man submarine. This is the inspiration for the oceans of Pandora?

The Colors of Space (near POST 521) See actual Moon Rocks, learn how scientists determine the surface composition of planets, and see the latest data from two active NASA missions: MESSENGER images of Mercury and Lunar Reconnaissance Orbiter data of the Moon.

The Hawai‘i Space Flight Lab presents Kerbal! (POST 534) Learn about some of the fun and exciting things we do at the Hawai‘i Space Flight Lab including Small Satellite design and testing and rocket launches. We will also be demonstrating the Kerbal Space program and explaining how it compares to real life!

Meteorites (POST 544) This exhibit will contain more meteorites than any other exhibit in Hawai‘i. A variety of meteorites will be on display to illustrate their properties.

Collecting Meteorites in Antarctica (POST 544) Learn how scientists collect space rocks from Earth’s natural freezer.

Planetary Data Center (POST 544) See globes, maps, and images of other planets studied by scientists at UH.

Comparative Planetology (POST 544) See how Earth compares to other planets in our solar system. View 3-D images and Space on a sphere.

Meteorites from Mars (POST 544) See actual meteorites from the Red Planet.

Meteorites from Asteroids (POST 544) Learn where meteorites come from and how they get to Earth.

Visualizing High Resolution Planetary Images (POST 544) With spacecraft imagery, NASA has turned the planets and their moons from tiny points of light into wondrous worlds. Come see high-resolution planetary images of Mars, Pluto, Mercury, and more.

Fun with Physics (POST 601) Understanding fundamental physics is the key to studying our oceans, atmosphere, and solar system. Hands-on demonstrations of mechanics, pressure, light, and optics.

What’s inside of a volcano? Rocks, water, and geothermal heat! (POST 619) Hands on learning about exciting projects of Hawai‘i’s Groundwater and Geothermal Resources Center.

Electron Microprobe Facility (POST 621) Come view meteorites and Hawaiian lavas at extremely high magnification, and get their chemical compositions in 10 seconds.

World-wide Seismic activity (outside POST 791) Computer display of real-time seismic activity around the world and Hawai‘i.

Please Touch! Violent Volcanoes, Beautiful Beaches, Magnificent Minerals, Fascinating Fossils! (POST 702/703) Hands-on to ultra-microscopic views of very cool stuff from Planet Earth.

Magnificent Minerals, Crystals, and Gems (POST 702) Why are some minerals and crystals usually not found in Hawai‘i? Explore common rock forming minerals and why they can be so large. Discover unusual crystals and gemstone minerals found worldwide.

Rock Magnet (outside POST 702) Choose your favorite rock for your very own rock magnet!

Exploring Minerals and Light (POST 703) This hands-on activity allows us to explore how light can be used to reveal properties of minerals and other substances. Come learn how light interacts with common household items (e.g. plastic baggie, cellulose tape, bubble wrap) and minerals like calcite and muscovite!

Rocks of Hawaii (POST 703) Volcanical bombs, Pete’s Hair, pillow lava, and more. See and feel interesting rocks formed by Hawaiian volcanoes.

Origins of Hawaiian Beaches (POST 703) Ever wonder where Hawai‘i’s beach sands came from? Come explore their composition and origins... perhaps they came from volcanoes, coral reefs, or the shells of marine creatures!

Sand Turns into Mountains, and Mountains Into Sand (POST 703) Use microscopes to see ancient life left inside rocks, and see how sands are transformed into mile high mountains, and how mountains are then turned into grains of sand!

Fun Fossils (POST 703) Come see interesting and exciting fossils to touch and learn about.

Water, Water Pollution, and Our Oceans (Hawai‘i Sea Grant & Water Resources Research Institute) (POST 706) Activities for all ages including instruments used to study environmental science in Hawai‘i.

See yourself LIVE in the magic world of infrared (POST 708) Come learn what you and your friends really look like in infrared, and at the same time see how we use this technology to discover the giant loss of otherwise invisible invisible groundwater to Hawai‘i’s oceans using airplanes and remote controlled drones!

Tracking groundwater flow to the ocean (POST 708) Streams and groundwater transport pollutants from land to the ocean and this causes problems for our coral reefs and methods to deal with them.

Groundwater Contamination (POST 708) A physical set up is used to simulate underground water flow and contamination. Water moves into the ground by simulated rain and is extracted by wells.

Women in Science (outside POST 712) Members of the local chapter of Graduate Women in Science, will engage visitors of all ages through hands on activities that highlight the important contributions made by female scientists past and present.

Insights into rock magnetic properties (POST 716) Saturday Only Come see how the magnetic properties of rocks are measured, and learn about what rock magnetism can tell us about geologic processes and the Earth.

Landslides and Rockfalls (POST 723) Short video clips of spectacular rock falls and landslides from around the world.

Mapping Satellite Image from Space (outside POST 813) Friday Only The ocean floor seats perhaps up to 100,000 underwater volcanoes (seamounts) but only a fraction have been mapped by ships. Using Satellite Altimetry we can detect and map all of them that are at or taller than 1 mile.

Quake Catcher (POST 852) Experience the educational computer game that allows students to learn about seismology and earthquake preparedness.

Homes Hall

Balloon Tower Exhibit & Various Lab Tours (Homes 1st floor) Future engineers will be able to demonstrate their engineering skills by working in groups to build free-standing balloon towers. For students interested in visiting Engineering research labs, a select number of labs is available for viewing at pre-determined times. Schedules can be picked up at the Balloon Tower tables on the ground floor of Homes Hall.