This month’s issue:

Celebrating 50 years of Service in Hawai‘i nei

Pele Visits Puna Geothermal Ventures  
Group Reports & Outings  
The New Normal of a Changing Climate  
Fall in Love with ‘Ōhi‘a  
Hawai‘i’s Bills Make History
Pele visits Puna Geothermal Venture

by Cory Harden, Moku Loa Group Executive Committee Member

It is sobering to realize that if the lava had first broken ground at Puna Geothermal Venture, some of our friends in Puna could have fallen victim to explosions and releases of hazardous gas. Instead, Hawai‘I Island watched breathlessly as Pele danced closer and closer to Puna Geothermal Venture (PGV). She skipped past, allowing time for emergency shutdown measures. Then she returned, slowly covering over wells that have been endangered neighbors for decades.

It just so happened that Tom Travis, a former geothermal activist from Puna, who is familiar with plant operations, PGV staff, officials, and residents, had recently been named as head of the State Emergency Management Agency. He helped direct the shutdown after Governor Ige declared a state of emergency. Under that declaration, 60,000 gallons of highly flammable pentane were trucked off the site and there was time to seal some of the wells to reduce the risk of explosions and leaks of hazardous and seal off wells to prevent them from spewing toxic hydrogen sulfide into the surrounding neighborhood.

Geothermal Risks: Then and Now

by Nelson Ho, Moku Loa Group Executive Committee Member and Nathan Yuen, Chapter Conservation Chair

The Sierra Club has always advocated weaning ourselves off fossil fuels and transitioning to renewable energy. Geothermal development, however, has always presented a unique set of dangers and threats to people and the environment.

The Moku Loa Group first opposed geothermal development in 1982 and have been involved in multiple contested case hearings and lawsuits, starting with the industrial intrusions into the Kahaualae’a rainforest, which is adjacent and upwind of the Hawai‘I Volcanoes National Park where rare and endangered species were plentiful. The proposal, first located at Kahaualae’a and then at Wao Kele O Puna, intended to ship 500MW of electricity to O‘ahu via an underwater cable, was ultimately defeated.

Soon after, the Moku Loa Group opposed the PGV plant in lower Puna because of its location adjacent to a rural residential area, which posed—and still poses—the risk of spewing toxic, flammable hydrogen sulfide gas into homes. Despite strong opposition from the community, officials approved the plant, bringing us to today.

The Group strongly believes that developers regularly underestimate the risks, and overstate their ability to understand and control the processes in the geothermal wells.

Since the construction of Puna Geothermal Venture in 1989, several accidental blow-outs have occurred where toxic hydrogen sulfide gas was released into the surrounding neighborhood. Hawai‘I County Civil Defense emergency response teams have measured hydrogen sulfide levels that were nearly 100 times higher than the levels reported to the public by PGV. A history lacking in transparency and warning to residents has created a climate of mistrust among the community and PGV.

The early Kahaualae’a lawsuits revealed that the proposed well fields were vulnerable and a bad economic risk. The area of the proposed well fields is now Pu‘u ‘Ō‘ō, which has been erupting for over 25 years and whose edifice has sometimes reached a height of 300 feet. The proposed well fields would have been inundated under 50 to 100 feet of lava.

Now in 2018, the PGV plant will also prove the critics right. Two wells are inundated, all ground access is cut off and geologists theorized that we are only in the middle stages of this eruption. Great efforts were made to make the 12 or more geothermal wells safe but only time will tell.

If you would like to support the Puna residents and families that have been impacted by the recent eruptions, please visit Pu‘uhonua o Puna’s fundraising page at gofundme.com/puuhonuapuna. You can also donate at any Bank of Hawai‘I locations in person or by phone. For updates and supply needs you can also visit their Facebook page at facebook.com/puuhonuapuna.

2018 marks our 50th year of service in Hawai‘I and you’re invited to celebrate with us in September and October—see page 6 for details!
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Victory Hikes: Hike with us through our accomplishments

Last quarter, our outings leaders and volunteers had a great time sharing with everyone some of Sierra Club of Hawaii’s greatest accomplishments through victory hikes statewide. We visited Wiliwilinui on O‘ahu, Māhā’ulepū at sunset on Kau‘i, Wallua Iki and Hāmākua on Maui, and O‘oma through the Ali‘i Kahakai Trail on Hawai‘i Island.

Each Victory Hike celebrates the Club’s past, present, and future efforts in building, protecting, preserving, and/or improving a particular area. We encourage you to attend one or more of these outings and bring along friends to join in the celebration and learn about the club’s efforts and successes. See each Group’s outings schedule on pages 9-19 for more details on each victory hike!

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Hiking through our half-century history at Wiliwilinui Ridge

By Jodi Malinoski, O‘ahu Group Coordinator

One way that the Sierra Club of Hawai‘i is commemorating our 50th anniversary is by hosting a series of “victory hikes” throughout the state, at least one per quarter by each group. This past second quarter, the O‘ahu Group held its victory hike to Wiliwilinui Ridge Trail. The hike was led by Jean Fujikawa, a long-time leader of ten years who also works for the O‘ahu Invasive Species Committee, and guest speaker Reese Liggett, a former Outings Committee Chair and hike leader.

During our hike, Reese revealed how in 1995-98 the Sierra Club championed efforts at the ‘Aina Haina Neighborhood Board, State Board of Land and Natural Resources, and Honolulu City Council to establish public access rules for the Wiliwilinui Ridge Trail. Reese was the Outings Chair at the time who helped coordinate this three-year effort, which resulted in the March 4, 1998 Bureau of Conveyances Document No. 98-0289899 issued by the City and signed by Mayor Jeremy Harris. This document prohibits the Wai‘alae Iki V Community Association from requesting identification of hikers who want to enter the gated community to access the State’s Wiliwilinui Ridge Trail. Hikers driving through the security gate can now mention the state’s public access easement for the ridge trail and will be allowed to drive to the trailhead without having to enter the Wai‘alae Iki system.

Since 1998, the O‘ahu Group’s outings committee has continued to lead hikes and service projects that improve the safety and accessibility of this trail. Outings leader Randy Ching pointed out the sections of trail that he and Ed Mersino maintained by installing new steps and water diversions. Some of the older steps were still painted with “Sierra Club Hawai‘i Chapter”, demonstrating how our work has stood the testament of time and thousands of hikers on this popular East O‘ahu trail.

Also joining the hike were members of the O‘ahu Group’s Executive Committee and several participants who were joining the Sierra Club for their very first hike. Our group of ten enjoyed a sunny day learning about this victory hike, discovering native and edible plants, and hiking into the clouds at the top of the ridge.

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Find more photos on past hikes on our 50th Anniversary page at sierraclubhawaii.org/50thAnniversary
It is because of the support of people like you that we have grown from a small group of committed people passionate about our environment to over 20,000 members and supporters continuing their work to protect the Hawai’i that we love. As we reflect upon the Club’s first 50 years, let’s look together through the next 50. The Sierra Club of Hawai’i will continue our fight against climate change, the protection of our drinking water, and the defense of our precious open spaces—but we need your continued support. Here are some of the ways you can support the Sierra Club of Hawai’i’s work, now and in the future:

**Monthly support**
We are working towards 120 monthly donors to cover the recurring expenses of our state wide operation, including rent, cable, and supplies. We are more than halfway to our goal with 80 monthly donors giving between $10 and $20 every month. These recurring gifts can be set up on our secure online donation platform at sierraclubhawaii.org/donate-2 or by calling our office at 808-538-6616.

**Annual gifts**
Every year, more than 500 people make a mission-sustaining gift to the Sierra Club of Hawai’i. These gifts made directly to the Chapter support our efforts to establish laws and policies protecting our environment, including professional lobbying at the State Capitol and county councils, direct engagement with state and county agency officials, and hosting events to recruit new advocates throughout the Hawaiian Islands.

**Planned gifts**
Leave a lasting legacy by making a commitment today to contribute to the Sierra Club’s work from your estate. Planned gifts can be adapted to fit your unique situation. It can be in the form of a bequest in your will, identifying us as a beneficiary on your life insurance policy, a gift of property, appreciable stock, or a charitable remainder trust that gives you income now while providing financial certainty for the Chapter. The Gift Planning staff at the Sierra Club's national office are available to help you understand all the ways you can support our work in Hawai‘i. Contact Lori Sullivan at giftplanning@sierraclub.org or 800-932-4270.

**Tax-deductible donations**
Most gifts made directly to the Sierra Club of Hawai‘i are not tax-deductible because the Sierra Club is a 501(c)4 organization that engages in direct lobbying, elections, and other highly effective advocacy that the IRS does not recognize to be “charitable.” However, it is possible to make a tax-deductible gift to the Hawai‘i Chapter via the Sierra Club Foundation which is a 501(c)(3). These gifts support public interest litigation and charitable outreach and education efforts. To learn more about these gifts, contact the Foundation directly at: (415)-995-1780 or foundation@sierraclubfoundation.org

**Leave a legacy for the next 50 years and beyond**
Hear stories of giving from long-time volunteers Roberta Brashear-Kaulfers, Annette Kaohelaulii, and other life members and legacy donors on our website at sierraclubhawaii.org/legacy

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**CELEBRATIONS**

**MĀLAMA I KA HONUA: CELEBRATING 50 YEARS OF SIERRA CLUB IN HAWAI‘I**
Saturday, September 8
Moli‘i Gardens, Kualoa Ranch
5:30-8:30pm

‘Aina based chefs, special guest Michael Brune - Sierra Club Executive Director, silent auction, live music, and more

**CONTINUING THE ADVENTURE: AN EVENING TO TALK STORY WITH THE SIERRA CLUB OF HAWAI‘I**
Friday, October 5
Cafe Julia, YWCA Laniakea
5:30-8:30pm

Fabulous food and drinks, experience-based silent auction, special guests, and more

**TICKETS AVAILABLE AT SIERRACLUBH50.EVENTBRITE.COM**
After 25 years as an outings leader, Randy Ching is hanging up his boots and retiring as an outings leader (gasp!). Over the years, Randy has been instrumental in building and maintaining countless trails around the state, keeping everyone smiling on the trails, planting thousands of trees at Hakalau, mentoring new outings leaders, and so much more.

But don’t you worry, Randy isn’t going anywhere. He is currently the Hawai‘i Chapter’s Outings Program Chair and is still heavily involved in Chapter leadership and advocacy.

The volunteers and staff at the Sierra Club of Hawai‘i are incredibly grateful for everything that you have done and continue to do for our Chapter and most importantly for the ‘āina. Mahalo mahalo mahalo.

Kāhala Hotel’s Misuse of State Lands
by David Kimo Frankel, Hawai‘i Chapter Volunteer

From Pōhakuloa on the Big Island to the East Maui watershed to Kauai’s Blue Hole, community members have questioned and challenged the Department of Land and Natural Resources’ management of public lands. Although perhaps less glamorous, residents are now questioning the use of a strip of beachfront property that allow it to maximize its profits without public accountability.

See Page 13 for General Outings Information

View the latest hike listings and online registration options at bit.ly/SCH-outdoors.

Unless otherwise stated in the outing description, participants should meet at 8am at the back porch of the Church of the Crossroads, 2510 Bingham Street, Honolulu. Do not leave your car in the church parking lot.

Classification of outings: (E) Educational, Interpretation, (C) Conservation, (F) Family/Fun, (S) Service

Friday, July 6 - Sunday, July 8
Haleakalā National Park, Maui (S)
Our accommodation for the weekend is at Kapalaoa Cabin situated in the center of Haleakalā Crater. The work will be eradicating California telegraph plant and plantago. This service trip is for hikers in good physical condition and for those who don’t mind “roughing it.” We have a 7-mile hike in via the Sliding Sands Trail the first day and will exit via the Halema‘u‘u trail. Participants will have to deal with the elevation. The cabin was built in the 1990’s by CCC workers and is rustic. There are no washroom or shower facilities, but there is an outhouse. We do have a 2-burner gas stovetop and a wood burning stove to cook and keep warm. The reward is spending the weekend in a beautiful National Park. Leader: Clyde Kobashigawa, clydekobashigawa@hawaii.rr.com.

Saturday, July 7
Waimea Ridge Trail Service Project (S)
Waimano, strenuous/8 miles, 500 ft elevation gain
Help keep one of the best trails on O‘ahu safe and fun to hike. We will hike 4 miles up the ridge trail to an area where over the years dirt and debris have covered good part of the trail’s tread. We will carry digging tools to dig out and restore the tread to a much wider, safer path. After working for a few hours and lunch in a beautiful spot we’ll return down the trail and stop at a small pool to cool off. Participants will receive a valuable useful gift for their efforts. Limited to 10 participants. Reservations required. Meet at the mauka end of Waimano Home Road at 8am. We will finish around 5pm. Leader: Ed Mersino, mersino@hawaii.edu

Saturday, July 8
Urban Hike: Diamond Head (E)
Diamond Head, easy/5 miles
Reservations required at least one week prior. Contact Susan for reservations, meeting place, and time. During a brisk and energetic walk around Kapi‘olani Park, participants will learn to identify ‘āina. Meet at the back porch of the Church of the Crossroads, 227-9925; Susan Tom; Curtis Kawamoto clydekobashigawa@hawaii.rr.com; John Shimogawa, 227-9925; Curtis Kawamoto.

Saturday, August 11
McBHI Kāne‘ohe Bay Service Project (S)
Reservations required. Contact Dan Anderson at 489-1695 or danderhi@gmail.com by August 10. We will be working with the Environmental Division helping clear wetlands of mangrove plants to create habitat for Hawai‘i’s endangered waterbirds. Because McBHI is a secured military facility, we must provide your name to the base in advance. We will send you a waiver that you must bring with you. Leader: Deborah Blair, 392-0481

Sunday, August 12
Victory Hike: Mauanawil Trail
Mauanawil, moderate/9 miles, contour
Reservations required. Car shuttle hike starts on the Pali Highway and goes to Waimanalo, with views of amazing cliffs and beautiful forest. Leader: Gwen Sinclair, gsinclair@gmail.com or 753-0528

“Of all the paths in life you take, make sure a few of them are dirt” - John Muir
O‘ahu Group Outings

Saturday, August 18
O‘pale‘u (F)
Hāle‘iwa, moderate/3 miles, 250 ft elevation gain
This is a great little hike above Hāle‘iwa. We will hike from a scenic ridge down to O‘pale‘u Stream. After following along an irrigation ditch, the trail comes to the catchment dam and later a pool where we can cool off. Besides the views from the ridge, there are three native berries, liko‘i, and strawberry guava. Along the way, we’ll see a number of native plants and trees. Reservations required. Limited to 20 participants. Meet at 8:30am at the corner of the cane haul road and the North Shore Marketplace; it is by the only traffic light in Hāle‘iwa town. Leader: Ed Mersino, mersino@hawaii.edu

Sunday, August 26
Sandy Beach Cleanup (S)
We will clean up along highway and coastal areas until 10am. Bags and gloves provided. All participants under 18 must have a waiver signed by their legal guardian. 10am. Bags and gloves provided. All participants under 18 must have a waiver signed by their legal guardian. Leaders: Clyde Kobashigawa, clydekobashigawa@hawaii.rr.com

Saturday, September 1
Late Hike: Pu‘u Pia
Mānoa, moderate/2 miles, 500 ft elevation gain
This short hike in the back of Mānoa Valley takes you to the top of a short hill (pu‘u) and a surprisingly good view. Meet at 1pm. Reservations required one week prior. Leader: Jean Fujikawa, jean.fujikawa@gmail.com

Saturday, September 15
Urban Hike: UH Mānoa Campus Arboretum (E)
Mānoa, easy/5 miles
Reservations required. Contact Susan for reservations. Meet at Church of the Crossroads then walk to University of Hawai‘i at Mānoa. Enjoy more than 50 native Hawaiian plants, many of which are endangered, in addition to some unique and interesting non-native plants during our brisk walk throughout the campus. Leaders: Susan Tom, 753-9351; Clyde Kobashigawa; John Shimogawa

Sunday, September 23
Kahaluu-Kaimana Pūpūkea, moderate/7 miles, contour
Reservations required. Hike the famous Kaunala Trail to the Pūpūkea-Paumalu Forest Reserve, where we will see some pillboxes and lovely views of Sunset Beach. Leader: Gwen Sinclair, gsinclai@gmail.com, 753-9528

Saturday, September 29
Pālehua Service Project-Trail Clearing (S)
Reservations required at least one week prior. Leaders: John for reservations. Space is limited due to parking and also as we will be working along an existing trail that is not used very much to also develop it as a fire break. Pack a lunch and/or snack and lots of water. Bring gloves, pruning saws, pruning shears, loppers, mosquito repellent, and lots of enthusiasm! The area is known for beautiful scenic panoramas from the ridge overlooking Nānākuli Valley. You may also hear and see a variety of birds, including a few exotic ones. Leaders: John Shimogawa, 227-9925; Clyde Kobashigawa, clydekobashigawa@hawaii.rr.com; Susan Tom; Curtis Kawamoto

Friday, August 31 - Monday, September 3
Kahaluu‘a Natural Area Reserve System (NARS) Service Project, Hawai‘i Island (S)
We will be working with NARS clearing mainly kahili ginger. We will access the area via Volcanoes National Park where it is an easy 1/2 mile hike from Thurston Lava tube to the work site. This a relatively new NARS site that is dominated with the alien kahili ginger and a great way to see how it evolves into a truly native Hawaiian Natural Area Reserve. There are native birds above in the native 'ūhi‘a lehua forest trees. Our accommodation will be at a house in Hilo at the NARS base yard. This trip requires a Friday evening departure. Leader: Clyde Kobashigawa, clydekobashigawa@hawaii.rr.com

Kealia Mauka Homesites Proposed
Once covered in sugar cane, 53 acres of prime agricultural land within a 1,000-acre parcel are being proposed for a 235-lot residential subdivision. The developer, Kealia Properties LLC was required to prepare a Draft Environmental Impact Statement to seek State Land Use Commission approval to amend the district boundary from agricultural to urban district.

The site is located off Kealia Road, adjacent to 36 homesites built in the 1920’s through 1960’s for plantation worker housing known as “Kealia Town Tract”. The proposed density is too high and will burden this rural neighborhood. The subdivision calls for a small 5,600 to 7,900 sq. ft. lots that are not keeping with the existing neighborhood layout whose lots currently range in size from 7,000 to 14,000 sq. ft. and larger. The proposed residential zoning could easily accommodate 8,700 sq. ft. lots and remain below the 10,000 sq. ft. threshold.

Impacts on the existing community will be significant. The high density conceptual plan includes no parks. The rural character will be diminished. Tradewinds and view planes will be blocked. The project will also adversely impact public safety due to increased demands on fire, police, and paramedic personnel.

Access to the proposed subdivision will be from the intersection of Kūhio Highway and Kealia Road, which is a narrow roadway constrained by slopes on both sides, with no room for sidewalks. The 235 households with 500-700 cars, must all use Kealia Road, the only ingress/egress. Unfairly, the adjacent Kealia Kai subdivision has 3 entrances off Kūhio Highway for just 36 lots. In addition, Kealia Kai was required to maintain a 100-300 foot setback from Kūhio Highway, however a similar green area and noise setback is not proposed for the new development.

Lot buyers will need to construct their homes. The infrastructure provided will include sewer, electrical power, drainage, and telecommunications systems. Potable water will require a water service agreement with Kealia Water Company Holdings, LLC which currently serves Kealia Town Tract. However, the Draft EIS failed to disclose that residents already experience poor water pressure, and that after the water system was installed, the county declined to acquire it because it was not built to county specifications.

The State Department of Education provided comments on the plan and noted that Kapa’a Elementary School has classroom capacity for 29 additional students over the next 5 years. Kapa’a Middle School has capacity for 125 additional students during that time, and Kapaa High School is currently over capacity by 100 students.

Considering the recent General Plan update, the project demonstrates a lack of transparency as it was not listed in the plan, despite communications with the Mayor and Planning Director dating back to 2016.

While we support opportunities for new housing, this subdivision exemplifies sprawl–its rural location is proposed for a 235-lot residential subdivision. The proposed project lacks a buildings density that is not used very much to also develop it as a fire break. Pack a lunch and/or snack and lots of water. Bring gloves, pruning saws, pruning shears, loppers, mosquito repellent, and lots of enthusiasm! The area is known for beautiful scenic panoramas from the ridge overlooking Nānākuli Valley. You may also hear and see a variety of birds, including a few exotic ones. Leaders: John for reservations. Space is limited due to parking and also as we will be working along an existing trail that is not used very much to also develop it as a fire break. Pack a lunch and/or snack and lots of water. Bring gloves, pruning saws, pruning shears, loppers, mosquito repellent, and lots of enthusiasm! The area is known for beautiful scenic panoramas from the ridge overlooking Nānākuli Valley. You may also hear and see a variety of birds, including a few exotic ones. Leaders: John Shimogawa, 227-9925; Clyde Kobashigawa, clydekobashigawa@hawaii.rr.com; Susan Tom; Curtis Kawamoto

Kaua‘i Group Report

Public Fact-Finding for Wailua Watershed Stream Flow Standards
The State Commission of Water Resource Management has the responsibility of establishing Instream Flow Standards (IFS) on a stream-by-stream basis to protect the public interest in the waters of the state. Rules governing this were adopted in 1988-1989, yet the task was so complex that only interim IFS were adopted—at “status quo” levels. In the Waiahole Ditch Contested Case, the Hawai‘i Supreme Court held that such “status quo” interim IFS were not adequate to protect streams. They required the Commission to take immediate steps “to protect and promote the entire range of public trust purposes dependent upon instream flows.” Setting measurable instream flow standards will include a wide range of stakeholders as ecosystems, recreational, fish/wildlife habitat, scenic views and tourism, boating, water quality, agriculture, hydropower needs, and Hawaiian rights.


The State Department of Education provided comments on the plan and noted that Kapa’a Elementary School has classroom capacity for 29 additional students over the next 5 years, Kapa’a Middle School has capacity for 125 additional students during that time, and Kapaa High School is currently over capacity by 100 students.
In addition to the June 21 public fact gathering meeting, the Commission will accept written testimony via email until July 13, 2018 at dlnr.cwrm@hawaii.gov. Read the helpful 98-page “Instream Flow Standard Assessment Report, Wailua, January 2018 Draft” at: https://dlnr.hawaii.gov/cwrm/surfacewater/ifs/wailua_ifs/

Statewide Transportation Improvement Program
The latest version of proposed Kaua‘i projects for 2019-2022 was released and the agency asked the public to submit their priority rankings of roadway and bridge projects to the State Department of Transportation by June 18. Due to limited state and federal funding, prioritizing is important. However, as a result of recent flood and landslides, the agency is focusing on system preservation and safety improvement projects. But, if public input significantly advocates for congestion mitigation, perhaps those needs can be addressed too!

Visit: http://hidot.hawaii.gov/highways/other/

The Sierra Club outings are conducted according to Club policy and under the direction of certified Outings Leaders. Our outings are group activities, and all participants are expected to follow leaders’ instructions and to remain with the group for the entire outing. We welcome all the Sierra Club members, non-members, and visitors on most of our outings; however, certain outings may be restricted to members. Firearms, (unless specifically allowed), and audio devices with or without headsets are prohibited. Smoking is permitted only at breaks and then only if the smell of smoke cannot be detected by other hikers. Outing Leaders may prohibit smoking if, in their judgment, a fire hazard exists. Bring with you: a liter of water (2 liters for strenuous hikes), lunch, sunscreen, insect repellent, raingear/jacket, and daypack. Boots, shoes with traction grooves (no loafers) or tabis are required. Unless otherwise noted, no bare feet or sandals of any type will be allowed.

You will also need to sign a liability waiver. If you would like to read a copy of the waiver prior to the outing please see content.sierramob.org/outings/local-outdoors/resources or call 415-977-5630.

In the interest of facilitating the logistics of some outings, sometimes participants make carpool arrangements. The Sierra Club does not have insurance for carpooling arrangements and assumes no liability for them. Carpooling, ride sharing, or anything similar is strictly a private arrangement among participants. Participants assume the risks associated with this travel.

For specific islands, each group may have its own outing policy. Please look at each group’s page or website for more specific information on where to meet or what to bring with you.

Kaua‘i Group Outings & Outings

under 18 is $1. For all others: $5. Note: Women are advised not to hike remote trails or camp alone on Kaua‘i.

Thursday, July 12
Mo‘alepe Trail to Kuiului Ridge Picnic Area (C/F)
Kapa‘a, moderate/5.5 mile round trip
A beautiful hike through farmland and forest, with glorious views and ever-present birdsongs. This trail offers great rewards without a lot of effort. Leader: Lee Gately, 661-373-4834

Saturday, July 21
Wai‘ape River Walk and Float (C/F)
Strenuous/10 miles
Start at Kukui Trailhead and hike down into Wai‘ape Canyon and along the old Wai‘ape River jeep road.
Bring floatable tubes to inflate and float down the river for over a mile, passing through a tunnel. End at outskirts of Wai‘ape town and shuttle back to Kukui Trailhead. Leader: Ken Fasig, 808-346-1229

Thursday, August 2
Nu‘u‘alolo Trail (C/F)
Koke‘e State Park, very strenuous/7.5 miles
A rewarding hike reaching a spectacular view at the Lolo Vista overlooking the Nāpali Coast. Leader: Lee Gately, 661-373-4834

Sunday, August 5
Māhāʻulepū and Makauwahi Cave Reserve (C/E/F)
South Shore, moderate/3 miles
Enjoy the majestic coastline. Visit the world-class archaeological site. Leader: Allan Rachap, 808-212-3108

Saturday, August 11
Kauhoa Ridge Road (C/F)
Koke‘e jeep road that slopes fairly gently for easy walking. Leader: Ken Fasig, 808-346-1229

Thursday, August 16
Māhāʻulepū Coastal Hike (C/E/F)
Po‘ipū area, moderate/4 miles
Spectacular coastal walk with breathtaking views along this magnificent coastline! Leader: Lee Gately, 661-373-4834

Friday, August 24
Victory Hike: Donkey Beach (Kaua‘i Bay) Sunset to Full Moon Coastal Walk (C/E/F)
East Shore, moderate/4.5 miles
We start off in the late afternoon meeting at Kapa‘a Library and shuttle our cars to start our walk along the coastal path from Donkey Beach ending back at the library as we watch the moon rise over the ocean. This is a “Victory Hike” to celebrate one of Kaua‘i’s victories over Sierra Club’s past 50 years in Hawai‘i. Leader: Judy Dalton, 808-482-1129

Thursday, August 30
Kuiului Ridge Trail (C/F)
East side, easy to moderate/3.5 miles
Agentle steady walk on a wide path with sweeping view of lush valleys and Mt. Wai‘ale‘ale and Makaleha Mountain Ranges. This trail offers great rewards without a lot of effort. Glorious views and ever-present bird songs reward you along this trail. Hike to bridge and picnic tables for lunch. Leader: Lee Gately, 661-373-4834

Thursday, September 13
Māhāʻulepū Coastal Hike (C/E/F)
Po‘ipū area, moderate/4 miles
Spectacular coastal walk with breathtaking views along this magnificent coastline! Leader: Lee Gately, 661-373-4834

Saturday, September 22
Wailua Beach To Nukoli‘i Beach Sunset to Full Moon Walk (C/E/F)
East Shore, easy/3 miles
Meet at Lydgate Beach Park for a picnic dinner. Learns more about Sierra Club’s role in stopping construction of a seawall along this pristine coastline. Enjoy the full moon glistening on the ocean with a sky full of stars. Leader: Judy Dalton, 808-482-1129

Sunday, September 23
Māhāʻulepū and Makauwahi Cave Reserve (C/E/F)
South Shore, moderate/3 miles
Enjoy the majestic coastline. Visit the world-class archaeological site. Leader: Allan Rachap, 808-212-3108

Thursday, September 27
Canyon Trail to Waipo‘o Falls (E/F)
Wai‘ape Canyon, moderately strenuous/4 miles
Unparalleled views of the canyon from the other side. Visit two waterfalls and dip your toes into a cool pool. Leader: Lee Gately, 661-373-4834

Kaua‘i Group Outings

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For specific islands, each group may have its own outing policy. Please look at each group's page or website for more specific information on where to meet or what to bring with you.
New Lawsuit: Anaergia Waste-to-Energy Project in Kahului

The Maui Group and Maui Tomorrow have filed a lawsuit challenging the approval of an Environmental Impact Statement for a one-bid contract awarded to Anaergia LLC to build a sludge processing project in the coastal tsunami zone of the Wailuku-Kahului Wastewater Reclamation Facility. The project claimed no impacts from bringing all of Maui’s sewage sludge to the vulnerable location.

Sand Mining

The Maui Group donated funds to help support legal efforts of local group, Mālama Kākanilua, who are holding developers accountable to follow court orders protecting the ‘iwi kūpuna (ancestral bones) that lie in the natural sand dune formations of Central Maui. On July 2nd, the Maui County Council will discuss renewing the 6-month moratorium against sand mining in Central Maui. The Maui Group strongly supports the continuation of the sand mining moratorium.

Campaign to Ban Chemical Sunscreens

A ban on the sale of oxybenzone- and octinoxate-based sunscreens was passed by the State legislature and will go into effect in 2021. The Maui Group’s advocacy for a similar County bill in 2017 helped galvanize momentum for the statewide victory.

Mākena Development

As part of a 2017 legal settlement agreement between ATC Mākena and the Sierra Club Maui Group & co-plaintiffs, a new archaeological report outlining 35 additional archaeological features has been drafted for the 47 acres of ATC Mākena Resort lands above Mākena Landing. The Maui Group and co-plaintiffs will review the report and work with allies to incorporate additional preservation areas into the project’s master plan.

Kihei Wetlands/Kulanihako’u Gulch Bridge

The Maui Group urged County to listen to the local community and come up with a better plan for new culverts proposed for this Kihei flooding hotspot. The proposed culvert project impacted wetlands, cultural sites and native flora and fauna habitat as well as water quality. Maui County Public Works Department announced recently that the plan could not obtain a key permit and needed to be redesigned.

Maui Group Outings

Saturday, July 21
Pauanui Bird Sanctuary and Fishponds (C/E)
Keʻanae, 2.5 miles
Coastal hike through historically rich area with spectacular views. Bring water, lunch/snack, sun and rain protection. Hiking down a steep slope to the fishponds is optional and includes plastic cleanup of Háumākaua beach. Meet 9am at Haʻikū Community Center. Limit 20. Leader: Rob Weltman, robw@worldspot.com or 354-0490

Saturday, July 28
Hāmākaʻa Mālana Day (C/E/S)
Haʻikū, 4 miles
Monthly community service outing to remove trash from our local beaches and keep coastal trails open. Join us in Ha’ikū at 8am. Leader: Lucienne de Naie, laluzmaui@gmail.com or 214-0147

Friday, August 3
Waikapū Stream Trail Work, Hike, and Swim (S/C/E)
Central Maui, 3 miles
Easy trail clearing along trail to Waikapū stream, followed by a short hike to a “secret valley” and swim. Water-friendly footwear required. Bring loppers, small saws, cane knives, gloves, water, lunch/snack. Meet 9am at Maui Tropical Plantation parking lot south end. Leader: Lucienne de Naie, laluzmaui@gmail.com or 214-0147; assistant leader Robin West

Saturday, August 4
Na’iliki – Star Watch at Waikapū Tropical Plantation Slopes (C/E)
Come spend an evening with astronomer Harriet Witt and learn about the lore of our Hawaiian night sky. Bring a beach chair, blanket, and flashlight. Meet at 6:45pm at the entrance to the parking lot. Light pupus will be served. Special Event: $5 for members, $10 non-members. Register with Rob Weltman, robw@worldspot.com or 354-0490
Moku Loa Group Outings

Saturday, August 11
Honolua Stroll, Līpoa Point Hike (C/E)
Honolua, 3 miles
Explore Honolua Valley and Līpoa Point with Hawaiian cultural sites, amazing views, and a chance to swim in the bay. Bring hat, sunscreen, water, lunch/snacks, and rainwear. Meet 8am Maui Ocean Center parking lot across from Carl’s Jr. to carpool. Limit 12. Leader: Miranda Camp, maumiranda@hotmail.com

Saturday, August 18
Wailea 670 Hike, Western Section Native Plant Preserve
South Maui, 2 miles
Visit magnificent stone walls and prominent cultural complexes in Wailea 670 Preserve and help take pix of rare native plants. Rugged terrain. Closed shoes/boots, long pants, and good balance a must. Bring water, hiking stick, and cameras. Meet 3pm at top of Kaukau Rd in Wailea. Limit 18. Leader: Lucienne de Naie and cultural guide. Register: laluzmaui@gmail.com or 214-0147

Saturday, August 25
Hāmākua Mālama Day (C/E/S)
Hāmākua, 6 miles
Monthly community service outing to remove trash and keep coastal trails open on 267 acres of Hāmākua lands purchased by Maui County. Bring gloves, hand tools, water, hat, lunch, and sturdy shoes. Meet 9am at Haʻikū Community Center. Limit 15. Leader: Lucienne de Naie, laluzmaui@gmail.com or 214-0147

Sunday, August 26
Hanaui Stream Hike (C/E)
Nāhiku area, strenuous/.4 miles
Pools with waterfalls and native stream life. Numerous stream crossings and hiking on slippery rocks in the stream. Good water footwear a must. Meet 8:30am at Haʻikū Community Center. EMI waiver required (see above). Limit 15. Leader: Miranda Camp, maumiranda@hotmail.com

Sunday, September 2
Haleakalā Supply Trail (C/E)
Haleakalā, intermediate/.35 miles, 8,000′ elevation Beautiful views along trail. Leave cars at Hosmer’s Grove campground and shuttle up to hike down from Haleakalā at the crater rim. Prepare for wet/windy conditions. Meet 8am at Pukalani Terrace Shopping Center near Ace Hardware. Wear footwear for rocky conditions. Bring hat, jacket, lunch, plenty of water, and a park pass (if you have). A hiking stick may be useful. Leader: Kalei Johnson, kalei1998@gmail.com or 344-0006; leave your phone number for pick up.

Friday, September 7
Victory Hike: Olowalu Shoreline (C/E)
Olowalu, 2.5 miles
Celebrate the natural Olowalu coastline, one proposed for hundreds of condos and commercial development. Learn about Olowalu’s rich history and enjoy a swim or snorkel. Meet 8:30am at 14 mile marker, on the ocean side of Honoaʻ pilani Hwy. Limit 20. Leader: Miranda Camp, maumiranda@hotmail.com

Sunday, September 9
Wailea 670 Historic Kanaio-Kalama Trail Hike (C/E)
South Maui, 3 miles
Explore ancient shelters along this historic road in Wailea 670 preserve. Rugged terrain. Closed toe shoes or boots, long pants, and good balance a must. Bring water, hiking stick, and cameras. Meet 3pm at top of Kaukau Rd in Wailea. Limit 18. Leader: Lucienne de Naie with guidance by Hawaiian cultural practitioners. Register: Lucienne de Naie, laluzmaui@gmail.com or 214-0147

Thursday, September 27
Kealia Pond National Wildlife Refuge (C/E)
Kealia, 1 mile
Come and see a variety of waterfowl and shorebirds and hear an overview about the refuge. Meet 9am at the refuge office (turn into driveway at mile post 6 on Mānele/Maui Veterans Highway and follow the road for 1/2 mile to the office). Bring binoculars, suitable closed toe shoes for mud and water protection, water. Limit 20. Leader: Rob Weltman, robw@worldspot.com or 354-0490

Saturday, September 29
Hāmākua Mālama Day (C/E/S)
Hāʻikū, 2 miles
Monthly community service outing to remove trash and keep coastal trails open on 267 acres of Hāmākua lands purchased by Maui County. Bring gloves, hand tools, water, hat, lunch, sturdy shoes. Meet 9am at Haʻikū Community Center. Limit 15. Leader: Lucienne de Naie, laluzmaui@gmail.com or 214-0147

PGV Demise An Opportunity by Steve Holmes
Hawaiʻi Electric Light Company (HELCO) should not be allowed to return old fossil fuel generators under the guise of an emergency energy caused by the recent shutdown of the geothermal plant in Puna. Hawaiian Electric Industries has already taken a step backwards by acquiring a naphtha fired power plant in Honolulu’s former independent power producer with the intent of burning this bottom of the barrel fuel till 2030. Naphtha is an oil fuel “alternative” that is by a way from petroleum refining—neither clean nor renewable. It was what you would expect from a monopoly but something that should not have been approved.

The Hawaiʻi State Legislature has mandated 100% renewable energy by 2045 with Hawaiian Electric promising to get there even sooner. The move to invest in naphtha puts it question that move that promise.

HELCO could and should follow the lead of Kauaʻi Island Utility Cooperative, the energy cooperative on Kauaʻi, by installing grid scale solar farms with battery storage. Resort areas like Mauna Lani and Waikoloa are likely candidates for microgrids that would take large loads completely off the main grid. There are lots of actions the government and the private sector can take to advance renewable energy. The loss of geothermal should be a cause for affirmative action on the part of state energy planners rather than let HELCO fossil fool us again.

Kauaʻi has shown that renewables can be implemented sooner than later and that consumers will win with reduced energy costs. Billions of dollars get sucked out of our local economy for imported fuels while renewables bring in big capital investments and create local jobs.

“Never waste a good crisis” is an old but true phrase. The declaration of an emergency gives Governor Ige and the state special powers—which they should seize on as an opportunity.

Hu Honua by Cory Harden
With Puna Geothermal Venture knocked out by lava, watch for a push to approve Hu Honua, also called Hu Honua.

Hu Honua is a “renewable” energy facility being built on a scenic oceanside site, in the middle of a neighborhood, a few miles down the Hāmākua coast from Hilo. Calling it “renewable”, the facility proposes burning trees and other fuel sources to produce electricity.

Hu Honua is now asking the State Department of Health for a permit to inject used cooling water into the ground—up to about 20 million gallons a day. The water would be tainted with chemicals whose warning labels cite risks of cancer, tissue damage, allergic reactions, impaired fertility, harm to unborn children, and hazards to aquatic ecosystems. This water would find its way into the aquifer and might migrate to the near coastal waters.

On land, many acres of trees would be cut, but plans to prevent erosion and keep out invasive species may be inadequate. Huge logging trucks would run from the town of Puna, Hilo, and the Hāmākua coast over the 30-year life of Hu Honua. The trucks would impede traffic, annoy locals and visitors, and wear out roads. Hu Honua would bring noise and other industrial impacts to the area.

Approval for this permit should be a cause for affirmative action on the part of state energy planners rather than let HELCO fossil fool us again.

Moku Loa Group Outings

50th Anniversary Party: Educational and Entertaining Success by Emily Garland and Gary Harrod
The Sierra Club Moku Loa Group recently held a successful 50th anniversary party at Mokupāpapa Discovery Center in Hilo, which was attended by more than 100 people. Half of the fundraising party’s proceeds will go to the Hawaiʻi Food Basket’s lava relief efforts. The event featured a screening of the film Reefs at Risk, a silent auction, eco speakers, pupus, live music, a screen for reef-safe sunscreen and other door-prize giveaways.

Set in Hawaiʻi, Reefs at Risk is a short documentary about the detrimental impacts that the common sunscreen ingredient oxybenzone has on coral reefs, marine life, and humans. Reefs at Risk was directed and produced by Malina Fagan and Lynn Pelletier, a Hawaiʻi Island mother-daughter team. You can watch Reefs at Risk and get information on reef-safe sunscreen at reefsatrisk.org.

Also at the event, Diane Kimball played Celticharp and Carter Romero played the concertina. Ryan Perroy spoke about coastal vulnerabilities to Hawaiʻi Island and adaptive coastal zone planning. Perroy is associate professor of Geography and Environmental Sciences at University of Hawaiʻi at Hilo (UHH). Katie Strong, a UHH Tropical Conservation Biology and Environmental Studies graduate student, spoke about plastic pollution.
Pablo Beimer spoke about North Hawai‘i Action Network, a community activist group he helped found. The network is committed to protecting human rights, civil liberties, equality, and our planet. Beimer also performed his original slam poem about how we’re all connected.

A true community affair, the gathering featured oodles of generous donations of food and drink and silent auction items from community members and local businesses. Mahalo nui loa to Clayton Watkins of the Mokupāpapa Discovery Center and to all our donors: KTA, Sweet Cane Cafe, The Locavore Store, Island Naturals, Abundant Life Natural Foods, Safeway, and more.

Locals used to defend the continuation of ‘self regulated’ commercial harvesting of marine organisms. We want to validate the often anecdotal evidence of our kupuna and resident fishers about the health of these critical sections of the coast that may be impacted by the commercial harvesting of marine organisms. We want to validate the often anecdotal evidence of our kupuna and resident fishers about the health of these critical sections of the coast that may be impacted by the commercial harvesting of marine organisms.

Due to recent and ongoing volcanic activity, outings are subject to rescheduling or cancellation. If fog, ashfall, or other eruption effects are severe, an outing may be cancelled.

Saturday, July 14
Leaders Training (E)
North Hilo, easy
All current and prospective leaders will meet to fulfill their training requirement to complete Outings Leader 101 online course. We will meet at the Laplace house in Pepe‘ekoe with our wifi units to review and complete the course online. The Laplaine’s have an extra wifi unit for anyone lacking access. Bring your laptop, tablet, or phone and lunch. Prospective leaders should sign up with Diane Ware, 967-8642.

Saturday, July 21
Cliffs Day Hike (E/C)
North Hilo District shoreline, moderate/4 miles
Scenic vistas, sea birds, and some historic sites depending on which part of the trail we go on atop the cliffs. Not for those afraid of heights. Leaders: Michael and Sunny LaPlante, 964-5017.

Saturday, July 28
Mauna Kea Service Outing (S)
Hāmākua District near Saddle Road, easy/1 mile
Please join Mark Hanson and the Hawaiian Reforestation Program planting sandalwood and other native seedlings in areas around 7,000 feet on Mauna Kea. Hiking boots, sunscreen, and raingear are suggested for this rain or shine project. We should be done by about 3 pm, so please bring lunch, snacks, and water. Bird watching in this palila critical habitat is an option afterward. Leader: Rob Culbertson, 805-316-1380.

Saturday and Sunday, September 1 and 2
Hakalau Forest National Wildlife Refuge Service Trip (E)
North Hilo District, moderate/4 miles
You have read about it, now is your chance to do it! The service projects at the Hakalau Forest National Wildlife Refuge usually involve planting native species such as koa or working in the greenhouse. Accommodations are at a well-equipped cabin at 6,200 feet elevation with electricity, running water, flush toilet, hot shower, kitchen, and bunk beds with mattresses. Participants will need to bring their own sleeping bags. At this high elevation, cold wet weather is always possible, so warm clothing and footwear and good quality raingear are necessary. Raingear can also be borrowed from the refuge. Free time activity may include a hike in the koa/‘ohia forest to observe endangered native forest birds. There is a fee for central commissary. Leaders: Sunny and Michael LaPlante, 964-5017.
On April 14, Kaua‘i’s north shore experienced the first-ever “rain bomb,” that dropped 50 inches of rain in 24 hours on this small community. The flood destroyed homes, farms, and businesses. The massive flow of water triggered at least eight landslides that completely covered the only road connecting the north side of Kaua‘i to the rest of the island.

Residents banned together to help each other in an amazing display of community. They used personal boats and vehicles to evacuate neighbors in need. In total, more than 300 residents were immediately rescued and evacuated.

At its heart, this region of Kaua‘i is a farming community. A significant portion of Hawai‘i’s taro supply is grown here. Damage to these historic loi is expected to create a poi shortage across the islands. There are also several successful ranches in this area. Kaua‘i’s cowboys made national news rescuing bison from the bay with jet skis and lasos.

From Wainiha to Hā'ena, 760 structures were damaged by the flood. The issue now is whether to rebuild in place or relocate. Much of this area is now considered a flood zone, and critical infrastructure like roads and sewers are quite limited. Cesspools can no longer be used to store human wastewater.

The Ige Administration immediately released $32 million in emergency funding for residents affected by the flood. The Legislature followed up with an additional $125 million in emergency funding. The Ige Administration is also currently appealing the Federal Emergency Management Administration’s decision to not fund relief efforts on Kaua‘i.

As local residents, and state and local officials work together to clean up, re-build, and where necessary, relocate homes, businesses, and public services affected by the historic flood, all of us can pitch in to help by donating time, supplies, and monetary support at malamakauai.org/mk/kauai-flood-relief.

All of us can also internalize the lessons learned from this event: be prepared, heed warnings, and most importantly, we must adapt to nature. This means doing all we can to immediately end the use of fossil fuels in every aspect of our lives—electricity, transportation, packaging... everything.

This also means accepting and adapting to the changes we can no longer prevent. Scientists expect the type of extreme rain event that hit Kaua‘i and parts of Oahu to become more common as the immediate effects of a climate-changed world set in. This is our new reality. The sooner we can adapt, and the more we can plan for a future flexible to nature’s changes, the better for us all.

**Advancing Energy Equity for Hawaiian Homelands**

by Jodi Malinoski, O’ahu Group Coordinator

As we see increased impacts on our islands from the effects of climate change, such as more frequent and extreme weather events, I am reminded of how necessary it is to center the Sierra Club’s work on climate change through values of justice and equity.

While Honolulu is leading the nation for installed rooftop solar per capita and Hawai‘i ranks second in electric vehicle registrations, these clean energy luxuries are usually inaccessible to all but homeowners who can afford them. We also recognize that we must stop burning fossil fuels and transition to a clean energy future rapidly, but we also need to make certain that entire communities are not left behind in an unjust transition.

In light of the Sierra Club advocating for energy equity, I am pleased to introduce Scott Cooney, the CEO and founder of Pono Home to showcase a free energy and water efficiency program that is being offered to residents in Department of Hawaiian Homelands (DHHl) housing. Pono Home, a local company specializing in energy efficiency, in partnership with Hawai‘i Energy, a customer-funded conservation and efficiency program, is working to install LED lighting and other water and energy saving fixtures for DHHl residents throughout Hawai‘i.

DHHl residents sign up by completing a home efficiency survey and scheduling an appointment for Pono Home to visit their residence to install the energy and water efficiency retrofits. This is a customer-funded program that is first come, first served and efficiency services take about an hour to complete. Pono Home has upgraded over 500 homes across O‘ahu, Maui, Moloka‘i, and the Big Island so far. There are about 8,903 DHHl homes in total, and the goal is to eventually retrofit all of them. Our members can help by promoting this free efficiency program, encouraging DHHl residents to sign up, and sending referrals to Pono Home. DHHl residents can sign up by visiting ponohome.com/DHHl, by email (info@ponohome.com), or by phone (808) 364-9715.

The Sierra Club believes everyone has a right to clean air and water, as well as safe and affordable energy. It is no secret that climate change will disproportionately affect minority and low-income communities, who are already struggling to make ends meet with Hawai‘i’s high cost of living. The O‘ahu Group is happy to support this free program that advances our goals of energy equity and can cut utility bills by 30% for those living in the Department of Hawaiian Homelands. Sustainable living must become accessible and affordable for everyone — to ensure we can all move forward together.

**Letter from the Chair:**

The Urgent And Very Personal Battle Against Climate Change

by Colin Yost, Chapter Executive Committee Chair

Several decades ago, every green-blooded environmentalist swore by “Reduce, Reuse, Recycle” as the best way to address his/her negative impact on the planet. While the essential wisdom of the iconic phrase still resonates, something more radical is needed in this age of frightening and rapidly progressing climate change.

The State of Hawai‘i (thank you Rep. Chris Lee, Governor Ige, and many others) recently enacted a law to become carbon neutral by the year 2045; so one answer is to achieve a personal carbon neutral life much, much earlier than that. Sierra Club will soon provide a guide with the best and most practical steps to zero out our individual carbon impacts.

Another revolutionary change could be a new job or career. Most of our time and energy is devoted to our work, and if you are able to find a position that allows you fight climate change AND make a living, so much the better.

Given the global scale of the climate challenge and the failure of national and international leaders to take aggressive, mitigating action, we must also look beyond personal behavior and seek to change the world around us. As we see increased impacts on our islands from climate change, such as more frequent and extreme weather events, I am reminded of how necessary it is to center the Sierra Club’s work on climate change through values of justice and equity.

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**A TREASURER FOR TREE HUGGERS**

Here’s your chance to join the oldest, largest, and most influential grassroots environmental organization in the country as the Volunteer Assistant Treasurer!

• Gain valuable experience and training
• Work with “green”($) for a “green” organization
• Develop financial skills
• Help process financial transactions
• Help prepare financial statements, ExCom reports, and budgets
• Help ensure financial stability and solvency of chapter (sub-entities)
• Monitor, question, and evaluate club activities requiring expenditures
• Assist in administration of fundraising activities, as needed
• Understand and promote the mission of the Sierra Club
• Attend meetings with Treasurer as requested
• Contribute to a sense of camaraderie and teamwork
• Assume administrative duties, if necessary

The Sierra Club of Hawai‘i’s Chapter ExCom needs your part-time financial and bookkeeping skills on the chapter level.

**Summary of Responsibilities:**

• Help process financial transactions
• Help prepare financial statements, ExCom reports, and budgets
• Help ensure financial stability and solvency of chapter (sub-entities)
• Monitor, question, and evaluate club activities requiring expenditures
• Assist in administration of fundraising activities, as needed
• Understand and promote the mission of the Sierra Club
• Attend meetings with Treasurer as requested
• Contribute to a sense of camaraderie and teamwork
• Assume administrative duties, if necessary

Please contact Nara Takakawa, Chapter treasurer, if you have the interest and skills for the position at: hawaii.chapter@sierraclub.org

**sierrahawaii.org/join-volunteer.**
More than twenty-five years ago, the State Legislature ordered the Health Department to enact rules that would require underground fuel storage tanks to be upgraded. All storage tanks from your neighborhood gas station to the 70-year-old, 12.5 million gallon bulk capacity field constructed fuel storage tanks that lie beneath Red Hill. All tanks were supposed to be replaced by the end of 1996.

Instead of doing so, the Health Department exempted the U.S. Navy’s antiquated and leaky tanks at Red Hill from any operating or upgrading requirements. Unlike the owners of underground storage tanks found beneath gas stations, the Navy does not need to comply with requirements related to permitting, training, or secondary containment. This has been the case for more than two decades. Meanwhile, since construction, hundreds of thousands of gallons of jet fuel has leaked into the environment. Threatening the ground and drinking water that serves 200,000 residents along the south shore of O‘ahu—most notably the 27,000 gallon leak in January 2014. None of the fuel spilled at Red Hill has been cleaned up—it can’t be. Now monitoring wells near Red Hill have elevated levels of contamination in the groundwater.

In February of this year, the Environmental Court ruled in Sierra Club’s favor that the Health Department’s special exemption for the Navy is unwarranted. The court’s ruling means that the Navy’s tanks violate the Health Department’s underground storage tank rules and state law. This is a huge win for environmental and clean water advocates, but the fight to get the tanks fixed up—or shut down—as fast as possible continues to be an uphill battle.

As a direct result of the Club’s suit, the Health Department is currently amending its rules. The proposed rules, which are required to be adopted by July 15, maintain the special exemption for the Navy with modifications. The Navy will have to comply with permitting, training, and operating standards. However, the department is also proposing to give the Navy twenty years from the enactment of the rules to implement secondary containment—a timeline which proves unacceptable for many in the community. After all, other underground storage tanks have had to update their tanks while the Navy’s facility has been violating state law for twenty years.

Currently, there are six “Tank Upgrade Alternatives” that have been proposed by the Navy. The Environmental Protection Agency (EPA), is poised to select their top alternative by year’s end. The public will have the opportunity to provide comments in the coming months as the EPA navigates through the decision-making process. The options are:

1. Maintain the current tank system - existing steel liner remains with a recoat of tank’s lower dome;  
2. Existing steel liner remains with full internal coating of the tank vessel’s steel liner;  
3. Replace existing liner with new coated steel liner of the same ¼ inch thickness;  
4. Coat existing liner and add new carbon steel liner with new 3-inch composite filler in between existing and new liners;  
5. Coat existing liner and add new stainless steel liner with new 3-inch composite filler in between existing and new liners; and  
6. Secondary containment with 5-foot accessible interstitial space. A new storage vessel constructed within each existing tank.

The Honolulu Board of Water Supply has emphasized that secondary containment (i.e., Option 6) is a critical component of protecting O‘ahu’s sole-source aquifer. In fact, the Health Department itself told the legislature in 2015 that upgrading to secondary containment is the most effective way to prevent leaks.

In addition to the aforementioned options, the Navy is exploring alternate locations for the bulk fuel storage facility, with their preferred location being just upslope of where the tanks are currently—and still under the underground water table which proves unacceptable for many in the community. After all, the Health Department is currently amending its rules. The proposed rules, which are required to be adopted by July 15, maintain the special exemption for the Navy with modifications. The Navy will have to comply with permitting, training, and operating standards. However, the department is also proposing to give the Navy twenty years from the enactment of the rules to implement secondary containment—a timeline which proves unacceptable for many in the community.

It is crucial for the public to stay engaged and hold the Health Department and the EPA accountable for the safety of the people living upstream of the tanks. It is imperative that the public fight against future leaks then the fuel needs to be stored away from our groundwater. E ola i ka wai. Water is life.

Meet our summer interns - Robinah and Brayden

Robinah joins us as a Global Leadership and Sustainable Development graduate student at Hawai‘i Pacific University. She is from Kitgum, a small town located in northern Uganda that is still in recovery after a war that lasted over 25 years. In Uganda, she volunteered in programs focused on empowering women and youth and creating a platform for men to understand the roles they play in sustaining gender equality and equity. When she graduates, she plans to coordinate with organizations on climate change and environment-related education and engage in research with communities on issues important to them. Robinah is excited to work alongside the Sierra Club of Hawai‘i focusing on water and waste management—bridging the gap between stakeholders through community outreach and environmental education. She hopes this experience will build a foundation for her future career in environmental management and sustainable development.

Brayden is currently a junior undergraduate student at Santa Clara University, studying Environmental Science. Born and raised on O‘ahu, his admiration for the islands, their pristine beaches, and natural greenery motivates Brayden to preserve what he cares for in order to give it to future generations.

In his free time, Brayden enjoys boxing, playing baseball, and creative writing. One of his biggest accomplishments was winning best screenplay at Mid-Pacific Institute’s student film festival his senior year of high school. Brayden is extremely excited for the opportunity to work with the Sierra Club on an array of projects and campaigns and hopes to gain skills and insight that will help him in the future in environmental legislative work.

Get Out and Vote! by Charessa Frye, Sierra Student Coalition UH Mānoa

It’s a big election year! By this time, you can’t miss all of the candidate banners around the islands and the groups smiling people sign waving at the busy intersections. Hawai‘i’s election season is quickly approaching—primary election is Saturday, August 11th and absentee ballots will start hitting mailboxes the middle of July. If you are still unsure who you will vote for, now is the time to identify the issues that are important to you, research the candidates and their platforms, and look to organizations you know and trust to see which candidates support or endorse. It is imperative to be an active and informed voter in the upcoming elections.

Unfortunately, in Hawai‘i, perpetuating a cycle where many voices are not heard. Locally in 2016, the average voter turnout was just 34.8% in the primary and 58.4% in the general election. Millennials are a large group that does not typically vote. As a student at UH Mānoa, I have encountered voter apathy firsthand. During my time canvassing, I have been able to talk with hundreds of students on campus and encourage them to vote. It saddens me to learn that most students are unwilling to discuss issues that matter to them, don’t have opinions on current events, and/or generally don’t vote.

But it is possible to turn this around. A lot of youth were activated by the Bernie Sanders campaign and then again with the election of Trump. First and foremost, make sure you are registered to vote and encourage your family and friends to do the same. Registering to vote and casting your ballot has gotten easier. 2018 is the first year that voters can go to their polling place, register, and vote all on election day—all you need is a driver’s license or state ID. This alone, overcomes a huge barrier to voting. You can also register to vote online up until 30 days before each election.

Many of the issues facing Hawai‘i—the fight for food security, water security, affordable housing, and a living-wage—are addressed through systematic change that depends on voter activism. So please, register to vote now if you are not already and encourage others to do the same. Take time to volunteer for candidate’s campaigns that you support and with local organizations that are involved in elections. And don’t forget to fill out your absentee ballot or make it to the polls on August 11th!

You can check to see if you are registered, register to vote, find your polling place, and more with the Office of Elections online at elections.hawaii.gov.
Fall in Love with 'Ōhi'a

by Erin Bishop, O'ahu Invasive Species Committee Outreach Specialist

Last year the O'ahu Invasive Species Committee conducted a series of public opinion surveys at popular trailheads to find out if hikers knew about 'ōhi'a and gauge their willingness to help protect it. We were surprised to find the majority of hikers, 64%, were O'ahu residents and nearly 70% of people had not heard of 'ōhi'a. These surveys revealed that we need to educate people about this important species if we want the public’s help and support to protect them. To know 'ōhi'a is to love 'ōhi'a...so here’s a brief introduction.

'Ōhi'a lehua, Metrosideros polymorpha, is the dominant forest tree in Hawai'i, covering nearly 1 million acres statewide. They can grow as a short shrub or as old-growth trees that are centuries old. They are one of the first plants to colonize lava flows, breaking down the lava rock with their roots and creating soil for other plants and organisms to thrive. The structure and pattern of 'ōhi'a leaves are perfectly designed to capture moisture from passing clouds and funnel raindrops down their trunks into the ground aquifers. The flowers are a direct food source for many native birds, including the renowned honeycreepers such as the 'apapane, 'i'iwi and 'amakihi, and they provide critical habitat for a host of native plants and animals.

'Ōhi'a are found on all the main Hawaiian Islands from coast to tree line (~8200 ft.), living in both dry forests that receive only 16 inches of rain per year and in wet areas, like Mt. Waiale'ale on Kauai, that get 400 inches of rain. 'Ōhi'a lehua is the most common native tree in Hawai'i, but it is complex. The Greek derivation for the genus Metrosideros is metra meaning “heartwood” and sideros meaning “iron”, referring to the hard wood of 'ōhi'a trees. Polymorpha means “many forms”, appropriate for 'ōhi'a lehua’s many variations in growth patterns, leaf shapes, and blossom colors.

Its extensive distribution across a wide range of climatic conditions is evidence that the tree is adaptable. These adaptations to different environmental conditions are so remarkable that Metrosideros polymorpha can be further separated into eight unique varieties.

Aside from Metrosideros polymorpha, there are four additional species of 'ōhi'a endemic to Hawai'i, meaning they exist nowhere else in the world! These include:

1. **Metrosideros macropus** endemic to O'ahu. The flowers are yellow but sometimes you can find a rare red blossom. Macropus means big-footed and refers to the leaves of this species, which are the widest all our native 'ōhi'a. You can see M. macropus in the Ko'olau and the Wa'ianae Mountains.

2. **Metrosideros rugosa** is also endemic to O'ahu and is found on the windward summits of the Ko'olau Mountains. Lehua papa is the Hawaiian name with papa meaning “flat or low-lying”, referring to the short, stocky shape that it has adapted to survive the wind swept summits. Rugosa is Latin for “wrinkled” and describes lehua papa’s leathery, grooved leaves.

3. **Metrosideros tremuloides**, also known as lehua 'āhihi is named in songs and chant about the Nu'uanu Valley on O'ahu. It is endemic to O'ahu and can be found in forests of the Ko'olau and Wa'ianae Mountains. Lehua 'āhihi has red blossoms and elongated pointy leaves with red stems. The silhouette of 'āhihi is more like that of a weeping willow with long, hanging branches. The species name tremuloides means “trembling” and refers the fluttering of these long leaves.

4. **Metrosideros waialealea** is endemic to the island of Kauai and can be subdivided into two varieties and found on the summit ridges of Mt. Waiale'alea, the highest mountain on Kauai and one of the wettest places on Earth. This species of 'ōhi'a also has long, pointed leaves with rusty-red colored blossoms.

Now that you've had an introduction to this special tree, be sure you are doing your part to protect them. Only enter the forests with clean hiking gear. Invasive weed seeds and the deadly Rapid 'Ōhi'a Death (ROD) fungus can be transported in soil that can be stuck to shoes and gear. Making sure your shoes are free of debris and spraying them with 70% isopropyl alcohol will kill any fungal spores, ensuring you aren’t a vector for the ROD disease. You can also help spread 'ōhi'a awareness by taking photos, tagging them with #ohialove and share them on social media...after all, to know 'ōhi'a is to love 'ōhi'a!

For more information on ROD and how to protect 'ōhi'a, visit rapidohiadeath.org

Next issue, we'll talk about the cultural significance of 'ōhi'a lehua.

The eight varieties of the species ‘ōhi’a lehua (Metrosideros polymorpha):

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Please do not move 'ōhi'a! Inter Island

Learn more at rapidohiadeath.org

Thanks to the advocacy of many on HB1800 this legislative session, an additional $800,000 was appropriated to DLNR for ROD work in fiscal year 2019. They are using the total $1.5 million to research, survey, and control ROD on Hawai'i Island and Kaua'i, as well as for broad public outreach and education efforts throughout the Hawaiian Islands.

Photos by Nate Yuen
In early May, one of the two fungal pathogens causing Rapid ‘Ōhi’a Death was detected on Kaua‘i. Before the detection on Kaua‘i, Rapid ‘Ōhi’a Death (ROD) was only known on Hawai‘i Island. Though the disease has been spreading on Hawai‘i Island, scientists did not detect it at the other end of the state.

Both species causing ROD are new to science and have been named for their devastating impacts on ‘ōhi‘a trees: Ceratocystis lukoahia (formerly species A), destroyer of ‘ōhi‘a, and Ceratocystis huliohia (formerly species B), disruptor of ‘ōhi‘a. Of the two pathogens, the less aggressive C. huliohia, was found in a remote section of the Molao‘a Forest Reserve on the northeastern side of Kaua‘i. C. huliohia is slower spreading than its cousin, C. lukoahia, forming localized areas of dead woody tissue, called cankers, that eventually cut off water to the tree and kill it. C. huliohia has been documented as being responsible for 5-10% of the death of infected ‘ōhi‘a trees on Hawai‘i Island, but is no less concerning for the potential damage it can inflict on Kaua‘i’s ‘ōhi‘a forests.

Scientists are already on the ground on Kaua‘i, along with state, federal, and non-governmental organizations that mobilized rapid response efforts within a few days of detection to map the area and take additional samples for testing. Efforts continue to answer basic questions and contain infected trees. Both Ceratocystis pathogens enter ‘ōhi‘a through open wounds made by humans or other animals, or broken branches caused by strong winds/storms. The origins of both fungal pathogens are currently unknown but are the subject of ongoing research.

Symptoms of the disease result in whole branches or the entire crown turning from green to yellow to brown in a matter of a couple of days to weeks—hence the name Rapid ‘Ōhi’a Death. The fungi shows up as dark staining in the sapwood that may result in a fruit-like odor. These symptoms are not apparent unless you cut into the tree where the fungi are present. To confirm ROD in an ‘ōhi‘a tree, samples must be submitted to a lab for analysis.

We are asking forest users and the general public to keep an eye out for symptomatic trees. If you see ‘ōhi‘a with ROD symptoms, take a photo and a GPS point if possible and send reports to your local Invasive Species Committee. All this information is essential to accurately manage data and support effective ROD management strategies. And remember, always decontaminate shoes and gear before and after entering forests and stay off of ‘ōhi‘a roots…this will stop ROD from being spread to uninfected ‘ōhi‘a forests.

Nate’s Adventures: New Seabird Colony on O‘ahu

I was thrilled to go on a Sierra Club outing to James Campbell National Wildlife Refuge (JCNWR) to see the genesis of a new seabird colony of ka‘upu—albatrosses and ‘u‘u—petrels on the north shore in Kahuku.

Pacific Rim Conservation and US Fish & Wildlife are developing techniques to save seabird colonies on Pacific Islands threatened by climate change. The eggs of bonin petrels and black-footed albatrosses were removed from low-lying islands doomed to sea level rise. Eggs are moved from nests that are too close to the ocean edge where the eggs will be destroyed by extreme weather and high tide conditions.

The eggs are being relocated to the north shore site at JCNWR where a predator-proof fence protects the birds. Since there are no adult birds to provide food, humans feed the chicks a blended smoothie of fish and squid. This cute little fuzzball is a ‘u‘u or Bonin petrel, Pterodroma hypooleuca.

Simulated burrows have been created for the petrels which live in burrows underground. 4 tubes in the sand lead to 4 chambers where the chicks live. The man made simulated burrows provide a fast way to remove the birds when they are fed and weighed.

Feathers sprout on the birds and they stretch their wings to simulate flying in the wind. When the birds are ready, they fledge and fly away. The birds have a homing instinct and will return to the site in 4-5 years when they are ready to breed and nest.

Here’s to hoping the birds survive the most perilous part of their lives and avoid predators when they leave. Tons of plastic float around in the ocean and birds inadvertently eat them. If too much accumulates in their gut the plastic will kill the birds. If all goes well, the birds will return and a new seabird colony will be created on the north shore of O‘ahu.

The Black-footed albatross chicks were losing their down in favor of feathers. Albatross chicks stick out their feet to cool off and regulate their body temperature. The birds are put into their “A frame” shelter after feeding. Many chicks prefer to hang with their friends or with the decoys.

If you see ROD symptoms, contact:
O‘ahu Invasive Species Committee
Email: oisc@hawaii.edu
Phone: (808) 266-7994
Kaua‘i Invasive Species Committee
Email: kisc@hawaii.edu
Phone: (808) 821-1490
Maui Invasive Species Committee
Email: mispc@hawaii.edu
Phone: (808) 573-6472
Molokai Invasive Species Committee
Email: ibuchanan@tnr.org
Phone: (808) 533-5236

It is recommended that you practice the “5 things” list to help prevent the spread of ROD throughout the state.

1. Keep your eyes open
If you see ‘ōhi‘a with ROD symptoms, take a picture and contact your local Invasive Species Committee right away. Samples of the wood must be taken and tested to confirm the presence of the ROD pathogen.

2. Do not move ‘ōhi‘a
The disease can be spread to new areas by moving ‘ōhi‘a plants, plant parts, and ‘ōhi‘a wood from infected areas such as Hawai‘i Island. Don’t transport ‘ōhi‘a interisland without a permit.

3. Avoid injuring ‘ōhi‘a
Avoid cutting or wounding ‘ōhi‘a. Openings in the bark create entry points for the fungus and increase the odds that the tree could become infected with ROD.

4. Clean your shoes, tools, and gear
ROD disease spores can be spread in soil from infected areas. Always clean your shoes, clothes, and gear before traveling to another island or areas free of ROD. If you work around or cut ‘ōhi‘a, clean tools and gear before and after use. Brush all dirt off equipment, then spray with 70% rubbing alcohol. Wash clothes with hot water and detergent.

5. Wash your vehicles
Invasive species are known to move on and in vehicles. Wash the tires and undercarriage to remove dirt and mud, especially after traveling off-road. Take special care when shipping vehicles interisland.
AES: Pass the Toxic Gas Please
by Marti Townsend, Hawai‘i Chapter Director

AES is the last coal-fired electrical plant in all of the Hawaiian Islands. It is also the single largest source of toxic pollutants in Hawai‘i.

Every year, AES imports 650,000 tons of coal from Indonesian coal mines. Coal mining in Indonesia employs some of the most destructive extraction practices, harming the environment, public health, and the local economy.

AES then burns all of that Indonesian coal to produce 10% of O‘ahu’s electricity and 330 tons of local, toxic gas every year. The air pollution emitted from AES mixes with that of its neighbors like Kahe Power Plant, Waimalnalo Gulch Landfill, PVT landfill, legacy military dump sites, and numerous illegal dump sites to undermine the amazing natural beauty of O‘ahu’s west coast.

State law requires AES to reduce its toxic greenhouse gas emissions this year by 16%. But AES does not want to take the steps needed to reduce its toxic emissions. It does not want to invest in improvements to the facility that would make it cleaner. It does not want to reduce its electricity projection to keep emissions below the maximum allowed levels.

Instead, AES wants special treatment. AES and Hawaiian Electric are petitioning the Department of Health and the Public Utilities Commission to allow them to share emission quotas between their facilities, allowing both entities to sidestep their responsibility to reduce the air pollution spewed from their facilities.

The Sierra Club has petitioned to intervene in the decision-making processes at both agencies. We are calling on state officials to defend the public’s best interests, protect public health, and reduce electrical costs by ensuring electricity producers do all that they can to move to cleaner, cheaper, locally sourced renewable energy options. This includes not making it easier to produce toxic electricity.

We know better options exist. Solar power is already providing 22% of the electricity used on Kaua‘i and at a rate lower than paid on O‘ahu. This includes a solar-battery storage facility run by the renewable energy side of the AES corporation.

We expect better. The profit margin on fossil fuel is not more valuable than the health of our children or our planet. There will be many opportunities for the public to participate in agency decisions on AES’ greenhouse gas proposal.

To stay up to date and learn more about this issue, sign up for our email list on our website: sierraclubhawaii.org.

It’s election season!
Help environmental warriors secure elected office by supporting our political action committee “Vote Sierra Club of Hawai‘i.”
Find our list of candidate endorsements and ways to offer support on the PAC website at VoteSierraClubHawaii.com

Paid for by Vote Sierra Club of Hawai‘i
Coalition Continues Campaign for Maui’s Future
by Adriane Raff Corwin, Maui Group Coordinator and Rob Weltman, Maui Group Executive Committee Chair

The end of Central Maui sugarcane cultivation on thousands of acres held by Alexander & Baldwin has brought about a tremendous opportunity for Maui residents to address many of the long-standing problems they face. As Maui’s population continues to grow and tourism reaches new levels, residents are being priced out of their homes, the majority of the food is imported, and unique environments and culturally sensitive lands are being destroyed or access is denied.

The Hukilike No Maui: Together for Maui Coalition has set out to rise to this opportunity. The coalition formed in 2017 with the help of the Sierra Club Maui Group and is a group of affordable housing advocates, local food production advocates, environmentalists, and Maui residents who recognize the need to unite their voices for the sustainable future of Maui.

“In 2017, the Hukilike Coalition did an affordable housing survey where we asked residents to tell us about their problems with housing on this island. The responses were sobering; so many people who have lived here for generations are not seeing a future on this island because they can’t afford to buy or rent housing in this market,” said Rob Weltman, Executive Committee Chairperson of the Maui Group. “It’s clear the island’s environmental resources are under stress, but so are Maui’s people. We need to build far more affordable housing and expand our local food production.

These problems are interconnected; progress requires working together to identify solutions that meet the needs of the whole community and collaboratively planning for the long-term future, as well as protecting the quality of our ʻāina, kai, wai, and the integrity of our special places.

“For too long, there has been too much animosity between the groups about how to develop this island. Now we’re coming together to listen to each other’s concerns and make a decision together,” said Stan Franco, FACE Maui Housing Co-Chair and member of the coalition. “No single person or organization has answers to all the challenges. But working collectively with the community, big, innovative solutions can be found.”

After a year of meeting with stakeholders, the coalition publicly announced their first campaign, “15% for the Future,” which petitions Alexander & Baldwin to 1) donate or allow the sale of 5,000 acres (about 15% of the former sugarcane lands) for sustainable communities, Puʻunēnē and Haliʻimaile that are integrated with affordable housing and small scale agriculture for local food production, and 2) preserve land and cultural resources at Baldwin Beach Park, Māʻalaea Bay, Kealia Pond, and Waiʻale sand dunes and reservoir.

Maui residents presented the petition with over 1,000 signatures to A&B at its annual shareholder meeting on April 24th. “Our message was very well received today by A&B,” said Angel Mau, a Hukilike coalition member who attended the shareholder meeting. “We were even able to talk with Christopher Benjamin, A&B’s CEO and president, after the meeting. He expressed his gratitude for us sharing our ideas and we look forward to meeting with them again soon,” said Mau.

The coalition’s next steps are to come up with an even more concrete vision of what Central Maui could become and how to make it a reality. In addition to continuing a public conversation with A&B, the group is also working to make the “15% for the Future” campaign a key topic of the 2018 local election by asking all local politicians whether they support the Coalition’s goals and if so, how they would help make it a reality.

“All of Maui’s people could benefit if we adopt a sustainable approach to the use of the Central Maui lands. We have an unique opportunity right now to address the needs of Maui’s residents. If we make those changes today, Maui’s future will be so much brighter for ourselves and our future generations,” said Lehua Simon, lifelong Puʻukalani resident and member of the Coalition.

To learn more, sign the petition and get involved, visit togetherformaui.org

‘Āʻoia Adriane!
by Marti Townsend, Hawaiʻi Chapter Director

Congratulations to Adriane Raff Corwin for securing a full scholarship to study playwriting at the prestigious Arizona State University. “I will always love Maui,” Adriane told me. “But I just could not pass up on this once in a lifetime opportunity. I care so much about Hawaiʻi and will support the Club’s mission from afar. I hope I can make my way back to the most beautiful place on earth someday soon.”

We are so proud of Adriane. Of course it is bittersweet because we are losing a key member on the Sierra Club of Hawaii team. Not only did Adriane start our child-focused outings program called Sprouts, but she also served as a vocal supporter on critical issues at the Maui County Council.

Adriane’s advocacy helped Maui residents push for the county-level ban on toxic sunscreens. That bill served as the basis and motivation for statewide action to protect coral reefs and public health from oxybenzone and octinoxate. That campaign revealed Adriane to be a master meme maker, and die-hard snorkeler (who knew?!).

I really appreciated how Adriane supported the work of ʻiwi protectors to stop the mining of culturally significant sand dunes in central Maui. HC&D, owner of Maui Lani, used simple “grading and grubbing” permits to circumvent environmental and historic site protections, so that they could convert entire areas of rare in-land dunes into money. Dunes like these are well-recognized as traditional burial grounds, yet no assessment of the cultural impacts of this mining has been completed. Thanks to the attention brought to this issue, the mining is currently on hold while the courts decide on the legality of the decision-making process.

Most of Adriane’s work, however, focused on planning for the future of Maui in a way that ensures everyone who can thrive there. Adriane worked tirelessly to advance the goal of the Hukilike No Maui Coalition. She helped to get three solid advocates into the annual shareholder meeting for Alexander and Baldwin to present a comprehensive land use plan. It is this kind of strategic coalition-building and planning for the long-term benefit of all residents that makes long-lasting big changes happen. We look forward to continuing and complementing Adriane’s work on this coalition to ensure its strategic goals are met. But for now, ʻoienaʻika!!

Way to go, Adriane! We are so proud of you.

-Ade Raff Corwin
Front and back cover:
Snapshots and memories from our first 50 years.
Cheers to many more to come.

Photos by Glenn Bauer, Ron Nagata, and Sierra Club volunteers and staff from over the years.