



Mālama I Ka Honua

Cherish the Earth

A Quarterly Journal of the SIERRA CLUB OF HAWAII

JULY - SEPT
2014

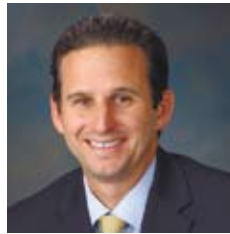
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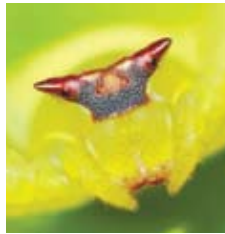
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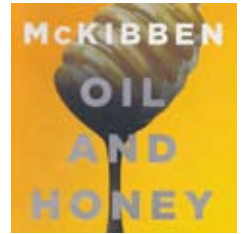
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Two Futures: Clean Energy at a Crossroads

By Caitlin Pomerantz

Hawai'i has always embodied a strange contradiction as both a poster child for clean energy innovation and the state most heavily dependent on fossil fuel. The urgency and the opportunity illustrated by our Two Futures campaign are both embedded in Hawai'i's geography. Like many island chains, we have abundant access to virtually every clean energy source on the planet. Unlike our sister archipelagos, however, Hawai'i carries the distinction of being the most remote island chain in the world to support a significant population. This puts added strain on our grid, while simultaneously creating a huge environmental and economic incentive to achieve energy independence by harnessing local clean energy sources.

Transitioning to a sustainable energy profile will require a multi-pronged approach. Energy efficiency

and energy conservation will play a crucial role, but that's only half the picture. If we want to realize Hawai'i's true potential for clean energy, we need to stay focused on building a more flexible, efficient, modern grid that can take full advantage of the clean energy sources at our fingertips.

Renewable energy sources tend to be intermittent by nature, and they need to be managed differently than fossil fuels. A modern grid is essentially a catchall term for the different strategies, equipment, and policies that collectively

equipment that can give real-time updates on energy supply and demand.

The need for grid modernization has been apparent for over a decade, but it has taken a crisis to get the utility serious about keeping pace with renewable generation. In a situation even HECO describes as a "severe emergency," thousands of homeowners have been told that they can't install solar panels because the grid has reached maximum capacity for renewables on certain circuits. The immediate problem may simply be

The challenge our utility faces now is to situate individual clean energy projects within the context of a larger strategic plan.

allow us to effectively deploy, monitor, and adjust clean energy sources. The tools available to us may include energy storage, inverters that respond quickly to power spikes, or monitoring

HECO's overly conservative estimates about how much intermittent energy the grid can handle and inflated estimates of how much it is currently carrying. Critics, including former U.S.

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SIERRA CLUB OF HAWAII
MĀLAMA I KA HONUA. Cherish the Earth.

Energy Secretary Dr. Steven Chu, claim that the grid can at least double—and possibly triple or quadruple—its current capacity with no threat to grid stability. (See sidebar for more information.)

Still, the fact remains that if we want to get to 100% clean energy, technical upgrades will be necessary. The challenge our utility faces now is to situate individual clean energy projects within the context of a larger strategic plan. We can't afford to invest in the utility's current plan —what the PUC described as a "series of unrelated capital projects to expand utility rate base and increase profits." We need a systems-wide transformation that will enable our utility to transition to a lighter, more flexible business model with a focus on facilitating clean energy rather than generating fossil fuel-fired electricity. Success in clean energy now means taking a hard look at our energy infrastructure, and the behavioral and policy changes that will supplement a transition to 100% clean energy.

We need to have many discussions about which upgrades are necessary, how much they cost, and how we apportion those costs fairly. The bottom line, however, is that fossil fuels are a sinking ship. It may cost us a lot to build a lifeboat, but what's the alternative? Continuing to remain dependent on oil means contributing to rising sea levels, ocean acidification, and the effects of frequent oil spills. Meanwhile, the cost of conventional electricity in Hawai'i is projected to approach 80 cents/kWh within the next 20 years—more than twice what we currently pay and six times the national average.

While Hawai'i's isolation and delicate ecosystem pose unique challenges, they also create one of the strongest incentives to get off of fossil fuel. As the state with the most to lose by remaining dependent on oil, and the most to gain by harnessing our local, clean energy resources, Hawai'i can and must take the lead in the

A TALE OF TWO FUTURES: THE CHOICE IS OURS



Hold HECO Accountable to Clean Up the Grid

Join us in calling on HECO to lower utility rates, connect more rooftop solar, and take swift, meaningful action to build a clean-energy grid for Hawai'i. In a recent ruling, the PUC gave HECO a deadline of August 26, 2014, to develop a meaningful plan to address these issues. HECO has perpetuated our dangerous and outdated dependence on imported oil for too long. Now is the time to hold the utility accountable to act in the public's best interest and ensure a clean-energy future for Hawai'i.

Visit HawaiiTwoFutures.com to sign the petition and learn more. Help us reach 10,000 signatures by sharing the petition with your network!

Over the last nine months, we've engaged over 100 volunteers in on-the-ground actions, rallied volunteers from around the state to submit over 200 pages of testimony, and gathered over 8,000 petition signatures in support of expanding access to rooftop solar and achieving energy independence by building a modern, efficient, clean energy grid. Here's how we did it:

September 6, 2013: With no oversight or communication with customers, regulators, or the solar industry, HECO unilaterally announces an immediate moratorium on solar installations on O'ahu, causing chaos for hundreds of homeowners and precipitating a 50% decline in rooftop solar permits.

November 4, 2013: The Sierra Club launches a campaign calling on HECO to make solar more affordable and accessible for everyone by highlighting the solar stories of people all around the islands. Our petition asking the Public Utilities Commission to review HECO's recent actions garners almost 1,000 signatures in the first two days.

February 4, 2014: The Sierra Club rallies clean energy advocates and solar customers to testify in support of a bill to modernize the electrical grid. At the packed Senate hearing, Ewa Beach resident Cynthia Cantero testifies that the costs of HECO's delays are causing her to approach foreclosure. HECO

testifies against the bill, which would ensure reliable and affordable access to rooftop solar, citing concerns about the wording.

March 26, 2014: Former U.S. Energy Secretary and Nobel Prize-winning physicist Dr. Steven Chu calls out HECO for using false claims to halt the progress of rooftop solar.

April 1, 2014: Teams of Sierra Club volunteers hit the streets to canvass and gather petition signatures in the neighborhoods hardest hit by the solar moratorium.

April 28, 2014: After a year-long planning process characterized by delays and reports of neglect and belligerence on the part of HECO representatives, the Public Utilities Commission rejects HECO's clean-energy transition plan, calling it "not in the public interest" and expressing disappointment that HECO has "failed to articulate a sustainable business model."

May 1, 2014: After months of rallying support and working through multiple drafts, the House passes HB 1943, in support of grid modernization.

May 7, 2014: The Sierra Club makes headlines when it turns out over 50 people to protest outside of HECO's annual shareholder meeting. A representative for the Club attends the meeting and presents HECO representatives with over 5,000 signatures calling on HECO to expand access to rooftop solar and make a plan for a transition to clean energy that benefits everyone.

May 17, 2014: The Sierra Club joins with Surfrider Foundation and other community groups to celebrate Hands Across the Sand, a global day of action to support clean energy. Over 200 people turn out to help launch our Two Futures campaign, which illustrates the stark choice between energy independence and continued dependence on imported oil.

May 26, 2014: We mark the three-month PUC deadline by launching a petition to hold HECO accountable to clean up the grid. Our petition calls for HECO to prioritize technical upgrades to the grid that will allow an increase in solar PV installations, a timeline to retire outdated fossil fuel plants, and a plan to more fully utilize existing renewable energy generation, for example, wind power. ■

World Conservation Congress—A Big Deal

The decision by the International Union for the Conservation of Nature to hold its next World Congress in Honolulu in 2016 is a very big deal, not just because the Sierra Club—spearheaded by our Chapter Political Chair Steve Montgomery—was so instrumental in making it happen, and not so much for the kudos it will bring to us and the city, but because of the opportunities it will give us to leverage the event to achieve real environmental gains that could serve as a model to the U.S. and the world.

As our political leaders approach major environmental decisions over

the next two years, we will be able to credibly argue that the whole world is watching. "You seriously want to switch to LNG?" "You seriously want to halt installation of rooftop solar?" "You seriously want to cut conservation spending?" And it's not just the negative. We can credibly argue that the World Congress will provide an opportunity to gain a global audience for Hawai'i innovation: "Let's get OTEC working in time for world leaders to see the potential..." One day of the congress is set aside for excursions: "Come on a hike to see how we're preserving the North Shore, rebuilding a food-growing agricultural economy, and achieving food and energy self-sufficiency..." Just imagine the possibilities!



MĀLAMA I KA HONUUA
Cherish the Earth

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FROM THE CHAPTER CHAIR

By Scott Glenn

August 9 marks a momentous day. The upcoming primary election will shape the field of candidates to lead Hawai'i for the next two years and more. Led by Dr. Steven Montgomery and Karen Chun, our Executive Committee and Political Committees have studiously reviewed the candidates and recommend in this issue the ones we believe are most dedicated to protecting Hawai'i's environmental resources.

We are most proud of Senator Brian Schatz for his leadership on climate change. We are also proud to endorse Mark Takai for Congress. Under the leadership of Senator Schatz and Representative Takai, along with Senator Hirono and Representative Gabbard, Hawai'i will have a formidable

national presence to protect Hawai'i's environment and lead the U.S. and the world on climate change.

On a more personal level, the Club is also excited to support our Director, Robert Harris. You may have heard that he is currently running to represent Kāne'ohe and Kahalu'u. Robert is the next generation of homegrown leaders: hard-working, committed, and dedicated to the things Hawai'i's people hold dear. As we transition into our next generation of Hawai'i Chapter leadership, we thank Robert for spearheading the Club and wish him the deepest aloha and greatest success.

In addition, our wonderful Caitlin will be transitioning into a new career in September. After years of writing and performing songs on the side, she was offered the opportunity to pursue her dream of a music career. Check her out on iTunes under Abrial or her website abrialmusic.com. We wish her the best!

These are times of great opportunity with the right leadership, and I urge all our members to vote in the primary on August 9.

How Did That Turn Out?

A Series Based on the Hawai'i Chapter Historical Timeline

The historical timeline that ran in the Mālama in 2013-2014 to mark 45 years of Sierra Club activism in Hawai'i included lawsuits as well as leaders, legislation, and campaigns. Each quarter we follow up on one of these actions, asking, What happened as a result of a bill becoming law? What are those who led the fight for a particular designation or against a specific development doing now? Or in this case, What's the story behind that 2010 settlement of a Clean Water Act lawsuit that led Honolulu to improve its aging sewer system? Send your suggestions for the series to phyllisfrus@sierraclubhawaii.com



In 2010, according to the timeline, the Club and its allies settled a lawsuit brought in 2004 that required the city to retrofit its sewers in the next decade. The lawsuit was not the first against the city for sewage overflows and spills, as Sierra Club intern Kathrin Auzinger-Hotzel discovered, just the first where the city complied with the agreement. In 1990 Hawai'i's Thousand Friends and the Club sued the city for regularly illegally bypassing sewage treatment equipment. Honolulu continued to

violate Clean Water Act provisions and was in noncompliance with a consent decree that in 1995 settled a lawsuit brought by the EPA and the state Department of Health.

The 2004 suit seemed doomed to fail as well; the court dismissed most of the claims on first hearing. But in 2007 it granted the Sierra Club's motion for reconsideration; another lawsuit was filed by the EPA and health department; and in 2010 the suit was settled, with the city agreeing to designate more than \$1 billion to upgrade its two main sewage treatment plants, construct new force mains, and replace more than 1,000 miles of sewer line. Honolulu has already installed one main sewer line and renovated another, both of which move wastewater out of Waikiki; and both volume and number of sewage spills have declined since 2010.

Why was the city willing to negotiate after 20 years of foot-dragging? Probably for the same reason the court reopened the case: the infamous 2006 Ala Wai spill, when weeks of rain forced city officials to release 48 million gallons of raw, untreated sewage into the Ala Wai Canal. It was either that or let it back up into toilets in Waikiki hotels, and the threat of all those tourists never coming back woke officials up.

The city has until June 2020 to complete the sewer retrofits, recovery, and improvements, and 2024 and 2035 are the deadlines to accomplish upgrades at the two wastewater treatment plants. But already it's clear that the Sierra Club and its allies achieved a monumental victory for Honolulu, its residents, and waterways. Without the Ala Wai spill, however, the upgrade might still be on hold.

Volunteers in the Spotlight

KAUAI' GROUP

Judy Dalton Environmental activist for 19 years



Judy Dalton has been leading outings and serving on the Kauai' Group Executive Committee for 19 years and

served on the Hawai'i Chapter Executive Committee for 16 years.

Seawall along Wailua Golf Course Stopped Judy's first foray into environmental activism on Kauai' began in 1996 when she discovered that the county was constructing a 6-foot-high, 3/5-mile-long revetment along the beach fronting Wailua Golf Course. She immediately went into action, questioning governmental agencies from the mayor and FEMA to the Army Corps of Engineers and the DLNR. Judy ultimately prevailed upon attorney Kurt Bosshard to help. They worked intensively for three months to stop construction. Finally, the Army Corps of Engineers and DLNR issued a cease and desist order, forcing the county to remove the non-permitted seawall, and Nukoli'i Beach was saved.

Donkey Beach Victory In 1998, Judy led a 7-month-long struggle to prevent Kealia Plantation from building "farm dwellings" as close as 30 feet from the bluff of a wild and scenic coastline popularly known as Donkey Beach. To protect the coastline from the visual intrusion of houses along the ridge, she spearheaded the formation of Friends of Donkey Beach. Judy, fellow Executive Committee member Marge Freeman,

and dozens of community members presented testimony to the Kauai' Planning Commission for months in an unsuccessful attempt to get the building footprint set further back. Judy asked David Frankel, attorney and former Sierra Club Chapter director, for assistance, which resulted in the County of Kauai' and the planning commission being sued.

Creating Malama Maha'ulepu The Sierra Club in 2000 named Maha'ulepu one of Hawai'i's top seven remaining wild and scenic shorelines. As this shoreline was vulnerable to development, Judy persuaded the Hawai'i Chapter Executive Committee to focus its Keep It Wild campaign on Maha'ulepu and to create a conservation coordinator position for Kauai'. Malama Maha'ulepu was created and dynamic land-use planner Beryl Blaich was hired as its director. The organization has received an EPA award in its pursuit of preserving this environmental and cultural gem.

HAWAI'I CHAPTER Elliot Van Wie Activist for clean energy



Elliot Van Wie has been a tireless volunteer in three areas: as secretary to the Oahu Group, canvassing to raise awareness

of the threat to solar, and planning Hands Across the Sand, the annual worldwide demonstration calling for action on climate change. He is active in the Hawai'i Bicycle League and Director of Community Outreach & Public Relations

at Livable Communities Hawai'i (LCH).

How do your volunteer activities with the Chapter relate to your work at a local nonprofit?

LCH assumes that we are part of various communities, which we want to thrive, spur innovation, foster happiness—and do it efficiently. Uniquely in Hawaii, we have proposed physical plans that espouse these values, like the Beretania-Young-King corridor, based on the concept of Complete Streets. We partner with allies like the Sierra Club to accomplish goals that we have in common. Just to be clear, allied groups do things that LCH will never do, and it is often the case that I am helping on a project as Elliot Van Wie long before I see a reason to involve LCH, if I ever do.

You canvassed for solar energy and called for action on climate change. Why these issues?

Sustainable energy solutions are something I've always been passionate about. At a pivotal point in my education I read James Howard Kunstler's *The Long Emergency*. Kunstler discusses peak oil, the ramifications of ignoring our looming energy crisis, and his vision of our post-apocalyptic future, should we ignore the writing on the wall. It got me thinking about what failure could mean for humanity and the exponential amount of damage caused the longer we wait. So that's the big-picture reason, but locally, I find HECO's practices unjust in terms of class and access. The changes we've been fighting for are good for everyone, in these terms.

What are some of the points you and other volunteers made when warning of the threat to solar?

We used all the facts at our disposal, but I found that those relating to equity and people's wallets mattered most.

Legislative Report By Robert Harris

Election years usually bring out cautiousness and conservativeness in politicians, knowing that controversial votes might be held against them in the polls. This was an election year. Fortunately, thanks to the Sierra Club and to the efforts of its many outstanding volunteers, we were able to pass several constructive measures this year with relatively few “bad” bills being passed.

It should be noted that some relatively uncontroversial bills, such as adopting a largely target goal of 100% clean energy in Hawai‘i, ran into a surprising amount of difficulty. The Public Utilities Commission—led by Mina Morita—vigorously opposed many bills introduced at the legislature, perhaps seeing them as unwanted

It should be noted that some relatively uncontroversial bills, such as adopting a largely target goal of 100% clean energy in Hawai‘i, ran into a surprising amount of difficulty.

intrusions on the PUC’s authority. On the whole, it was surprising how quickly legislators simply let bills die rather than attempting to work them out and get something positive passed in the end. Issues such as requiring storage on the grid or striving for 100% clean energy died because of the PUC’s opposition.

Bills that did not pass, and deserved a better chance, included public funding for election candidates (HB 2533); increased accountability for reporting problems on state land, such as with the recent Matson molasses spill (HB 2621); allowing the counties to charge

a stormwater fee so as to help improve stormwater systems statewide (HB 2204); improving the electronic waste recycling program (HB 2307 and SB 2857); and preventing telephone book deliveries unless someone “opts-in” to receive one (SB 3014).

Good bills that deserve particular attention:

Grid Modernization (HB 1943)

Plenty has been written about the recent solar crisis in Hawai‘i. As is noted elsewhere in this magazine, HECO is stopping further rooftop solar by pointing to technical limits. Whether the technical limits are real or not, it’s plain that we need to be constructing the grid of the future: one that can handle renewable energy from many sources. Recognizing that renewable energy is the cheapest form of electricity available today, we need to find ways to bring it online quickly in a fair and cost-effective manner.

This measure—in its final amended form—did little more than recognize that some short-term improvements could be made in the near term, and it required the opening of a proceeding before the PUC to address more systemic problems: specifically, how to address cost fairness, how to make technical upgrades, and how to change policy to encourage more renewable energy use.

And yet even this streamlined bill faced significant opposition from Senator Baker. It passed only after agreements were made to strip the funding from it and to make the requirement that the PUC hold a proceeding an option instead. As written, this measure establishes the framework for a good proceeding—if the PUC decides to address the rooftop solar controversy.

Funding for Invasive Species Removal (HB 1716)

Invasive species brought in from

Asia and the U.S. mainland cost the state millions of dollars each year. And yet efforts to prevent the spread of alien pests have typically been poorly funded. Perhaps because of the media attention to some of the recently introduced creatures, like the coconut rhinoceros beetle, the legislature allocated a moderate amount (\$5 million) of funding this year to aid in the prevention and removal of invasive species. This a good start, but the state will need to continue to allocate these funds on a year-to-year basis. It cannot be a simple one-time Band-Aid.

Climate Change Planning (HB 1714)

Although Hawai‘i recognizes climate change and has taken steps to reduce its production of greenhouse gases, little has been done to plan for the inevitable impacts of climate change. With its dense populations centers near the shoreline and hundreds of endangered or near-endangered species, Hawai‘i will likely be affected by climate change more than most states. We should expect an excessive number of heat days and cases of heat exhaustion, diminished rainfall and less fresh water, more frequent storms and hurricanes.

This measure starts planning for climate change by tasking DLNR to analyze and develop a plan to address sea level rise. The Office of Planning is required to create a framework for addressing other statewide climate impacts.

While “interagency committees” and “framework reports” aren’t exactly the height of aggressive action, it should be noted that government must start looking at climate change on an integrated basis. Until the various agencies agree that climate change is coming and start working together, it’s unlikely that bolder actions will be taken in the future. This bill is a solid step in the right direction.

Senator Schatz, Environmental Champion—Will You Work for Him?

By Suzanne Graham

I don’t need to tell you about climate disruption—how serious it is, what’s at risk, why we should care. You live in Hawai‘i, you get it. You know that bleaching corals and sea level rise are real threats. You know that we need to fight for our clean energy future. I saw that in 2012 when I came to help elect two environmental champions, Tulsi Gabbard and Mazie Hirono, and I have seen it since in the amazing work that you do as volunteers every day.

In the less than two years that Brian Schatz has been in the U.S. Senate, he has already done more for the environment than many politicians will do in their careers.

Where I live and work (Washington, DC), well, that’s another story. Washington is full of elected officials playing politics with our future, with the very survival of all of the things that make Hawai‘i so special.

That’s why I am so grateful to your state and proud to have helped get smart and passionate people elected from Hawai‘i, people who get it. Words can’t express how much Washington needs them.

Right now, we have the opportunity to make sure one more champion from Hawai‘i stays in DC, Sen. Brian Schatz. In the less than two years that he has been in the U.S. Senate, he has already done more for the environment than many politicians will do in their careers. Right off the bat, he proposed legislation to create more National Parks in Hawai‘i, helped kill the Monsanto Protection Act (it’s as bad as it sounds),

and has tirelessly worked to organize his colleagues to stand up for climate action.

This July, I am so grateful to have been invited back to Hawai‘i to help get Senator Schatz re-elected. I am grateful for the opportunity to be back in such a beautiful place (and out of DC’s humid summer). More importantly, I am so grateful to be back with all of you, the passionate and committed members of the Hawai‘i Sierra Club fighting to get a great climate champion re-elected on August 9. I feel hopeful, and believe me, living in DC one doesn’t feel hopeful very often.

Will you work with me to help keep Brian Schatz in the Senate? Together, we can fight for our future—for Hawai‘i and our planet. Let us know by filling out the form at: sc.org/schatzvolunteer



Suzanne Graham is coming out to Hawai‘i to organize Sierra Club efforts around the August 9

primary race for Senator Schatz. She manages Climate and Clean Energy field campaigns for the Sierra Club. In her free time, she likes to explore DC, play outside, and cook vegan meals. Suzanne has been to Hawai‘i before for Victory Corps for Rep. Tulsi Gabbard’s primary race and Sen. Mazie Hirono’s Senate race in 2012, both of which were successful.



Explore, enjoy and protect the planet



Moo-ve to End Factory Farms

America’s water, rivers and lakes are at risk from giant, corporate-owned factory farms which are fouling our water with pathogens and chemicals. Factory farms are also the largest source of toxic ammonia air pollution in the U.S. The Sierra Club opposes all permits for new or expanded factory farms. Support Sierra Club’s efforts to keep our water and air clean.

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Special Offer	<input type="checkbox"/> \$ 15	N/A
Standard	<input type="checkbox"/> \$ 39	<input type="checkbox"/> \$ 49
Supporting	<input type="checkbox"/> \$ 75	<input type="checkbox"/> \$ 100
Contributing	<input type="checkbox"/> \$ 150	<input type="checkbox"/> \$ 175
Life	<input type="checkbox"/> \$ 1000	<input type="checkbox"/> \$ 1250
Senior	<input type="checkbox"/> \$ 25	<input type="checkbox"/> \$ 35
Student	<input type="checkbox"/> \$ 25	<input type="checkbox"/> \$ 35
Limited Income	<input type="checkbox"/> \$ 25	<input type="checkbox"/> \$ 35

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Who gets a **GREEN** thumbs up?



It's easy to say you're for the environment, but which candidates' actions show they really mean it? The Sierra Club of Hawai'i and its four island groups, sorted through all the candidates and selected the best choices for protecting the 'aina. The candidates endorsed by the Sierra Club will help to protect our beaches and open space, reduce our dependence on foreign oil, and increase funding of environmental programs.

Electing good green leaders to office is half the battle in protecting the environment. One of the most important things you can do for the environment is to vote.

That's why we're making this easy for you. Take these pages with you to the polls or give them to a friend (after you've voted, of course).

U.S. Senate:
Brian Schatz

Congress District 1:
Mark Takai

Congress District 2:
Tulsi Gabbard



**For updates on endorsements
and how you can assist your
candidates, please check out:**

SierraClubHawaii.com

**Need to find out what district
you're in? Check out the
Office of Elections website at:**

hawaii.gov/elections

STATE OF HAWAI'I

Lt. Governor:	Clayton Hee
OHA:	Mahealani Wendt
OHA:	Hina Wong-Kalu

STATE SENATE

District 3:	Joshua Green
District 4:	Lorraine Inouye
District 5:	Gil Keith-Agaran
District 6:	Terez Amato (Lindsey)
District 21:	Maile S.L. Shimabukuro
District 23:	Gil Riviere

STATE HOUSE

District 2:	Edwin Miranda
District 4:	Joy SanBuenaventura
District 5:	Richard Creagan
District 6:	Nicole Lowen
District 9:	Kimo Apana
District 11:	Kaniela Ing
District 15:	Dylan Hooser
District 20:	Keiko Bonk
District 24:	Della Au Bellati
District 31:	Aaron Ling Johanson
District 35:	Roy Takumi
District 36:	Marilyn Lee
District 41:	Matt LoPresti
District 42:	Nicole Ferguson
District 45:	Lauren Matsumoto
District 47:	Kent Fonoimoana
District 48:	Robert Harris
District 50:	Cynthia Thielen
District 51:	Chris Lee

BIG ISLAND COUNTY COUNCIL

1:	Valerie Poindexter
2:	Kerri Marks
4:	Roy Lozano
5:	Tiffany Edwards Hunt
6:	Richard Abbett
8:	Karen Eoff
9:	Margaret Wille

MAUI COUNTY

Mayor:	Tamara Paltin
Council Kahului:	Don Guzman
Council Paia-Makawao-Haiku:	Mike Molina
Council West:	Elle Cochran
Council South:	John Fitzpatrick

*Thanks for Voting! Your Green Choices
Keep Hawai'i Nei Vital & Beautiful!*



Nate's Adventures

Misumenops Spiders in the Hawaiian Islands



by Nate Yuen

For the past several months my spidering buddy, Francis Joy—better known as Jay—and I have been looking for endemic Hawaiian spiders in remote

parts of the island.

Jay found a chartreuse-colored spider perfectly camouflaged in the vegetation. The spider was a little more than half an inch long with a stocky body and thick legs that gave it a strong and formidable appearance.

The most distinctive feature of the spider was a red trapezoidal shield on the front of its head, upon which its eyes were situated. Imagine our excitement when the spider ambushed an unsuspecting spider and took off with its meal!

Recently Jay found another spider with

the distinctive shield, this one white.

It was about three-quarters of an inch long from leg to leg, large compared to other endemic spiders. The spider was guarding its nest on the back side of a leaf. Its brood of eggs was wrapped in silken threads.

The red, yellow, and gray trapezoidal shield on the front of its head is fascinating to examine. The colorful shield is presumably where its eight eyes are situated, but I could make out only three pairs of eyes.

When I posted video of the spider to the Hawaiian Entomological Society, Sam Gon III identified this as a *Misumenops*

spider, an endemic crab spider in the family Thomisidae. There are 17 known species of *Misumenops* species endemic to the Hawaiian Islands, most of which are found in mesic to dry forests.

Misumenops are commonly known as flower spiders because they mimic the color of flowers on which they sit while preparing to ambush pollinating insects. Genetic data suggest that the Hawaiian thomisids are descendants of flower spiders that found their way to

Genetic data suggest that the Hawaiian thomisids are descendants of flower spiders that found their way to the Hawaiian Islands by floating in the air stream on long threads of silk.

the Hawaiian Islands by floating in the air stream on long threads of silk.

Misumenops spiders occupy different substrates in the ecosystem. The green and brown speckled *Misumenops editus*, endemic to the summit of Mt. Ka'ala, O'ahu, is perfectly camouflaged against moss. *M. aridus* and *M. nigrofrenatus* are well hidden on white lichen. According to Hawai'i officials there are at least 132 spiders endemic to the Hawaiian Islands. So many more for me to find!

To see more of Nate's photos of *Misumenops* spiders, go to hawaiianforest.com/misumenops-spiders-in-the-hawaiian-islands

Nathan Yuen is an artist/photographer/naturalist whose body of work is a confluence of hiking, conservation, and fine art photography. Each weekend you can find him hiking, backpacking, or kayaking to out-of-the-way locations to photograph Hawai'i's native plants and animals, many of which are rare or endangered. His goal is to showcase these biological treasures to give you a reason to protect them for future generations. Nathan has a website at HawaiianForest.com, where you can see his art and read about his adventures.

Photo courtesy of Francis Joy



This *Misumenops* spider enjoys a meal right before our eyes!



This spider was guarding its nest and silk-wrapped brood of eggs on the back of a leaf.

Photo courtesy of Francis Joy



The bright green spider shown in the inset images on this page is a different species of the whiter spider shown in the larger image. There are 17 known species of *Misumenops* spiders endemic to the Hawaiian Islands.

Photo courtesy of Francis Joy



O'ahu Group Report

It's been a good couple of months for the O'ahu Group...

Turtle Bay

We were part of the team that lobbied and campaigned to ensure that the Phase 1 and 2 portions of the proposed development plan at Turtle Bay would be permanently blocked. That goal was met following the agreement by the state to purchase the development rights to 665 acres from Replay Resorts. The agreement includes two public parks, wetlands, and a trail system and ensures oceanfront access for the public.

There were several organizations and individuals who worked hard to make this happen. The O'ahu Group's role was to persuade Mayor Kirk Caldwell to release \$5 million dollars of city funds, which were a crucial part of the deal. The mayor went from being skeptical to being an enthusiastic advocate.

We will continue our effort to block the final Phase 3 portion of the plan, which would lead to two more hotels and 100 vacation homes. We believe we can build on the success of the conservation easement agreement to protect another parcel of land abutting the James Campbell National Wildlife Refuge. There appears to be interest on the part of the resort, and we believe that after the commitment of \$50 million in public funds for the Phase 1 & 2 agreement, this time private funders need to come to the table in a bigger way, something we shall be pressing for.

We will continue to press on multiple fronts, so we are still pursuing our legal action—together with Keep The North Shore Country—challenging the sufficiency of the supplemental environmental impact statement. And we have lobbied the Governor



Phase 1 and 2 portions of Turtle Bay development have been permanently blocked.

and the O'ahu Metropolitan Planning Organization to conduct a survey of traffic on Kamehameha Highway in order to demonstrate that the local transportation infrastructure is not sufficient to carry more large development in the region.

World Conservation Congress

We were also a key component of the team that helped ensure victory in Honolulu's bid to host the 2016 World Conservation Congress, the quadrennial gathering of more than 6,000 political, scientific, business, and activist leaders—the largest of its kind in the world—which some compare to the Olympic Games of the environmental movement (see article on Page 3). Our longtime member Steve Montgomery played a crucial role in this effort and as a result the Chapter has nominated him for the national Sierra Club's Special Achievement Award.

Ho'opili & Koa Ridge

In another piece of good news, the state Supreme Court has agreed to hear both our appeals of the Land Use Commission decisions on the two developments, which would allow

construction of 17,000 homes on the two most productive food farms in the state.

BYK Project

Our efforts to focus attention on beautifying the city in order to reduce the demand for suburban homes got a lift when the City Council passed a resolution in support of the BYK Project, for which we had lobbied. The project would transform the corridor along Beretania, Young, and King streets between Moili'ili and Thomas Square by introducing Complete Streets concepts: protected bike lanes, dedicated bus lanes, narrower pedestrian crossings, and plantings to make the corridor a safer and more attractive place for pedestrians and bicyclists.

Elections

Finally the Executive Committee has completed a candidate questionnaire to be sent to candidates for City Council. We hope to interview candidates and we will share our endorsements with you as soon as we have them.

Anthony Aalto
Chair, O'ahu Group

O'ahu Group Outings

SEE PAGE 21 FOR GENERAL OUTINGS INFORMATION

Beginning in January 2014, reservations are required for outings. Register online at sierraclubhawaii.com/get-outdoors

Unless otherwise stated in the outing description, participants meet at 8:00 a.m. 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) Education/ Interpretation, (C) Conservation, (F) Family/Fun, (S) Service

Friday to Sunday, July 4-6

Haleakalā National Park, Maui (S)

Leader: Clyde Kobashigawa clydekobashigawa@clearwire.net
Our accommodation for the weekend is Kapalaoa Cabin situated in the center of Haleakalā Crater. The work will be eradicating California telegraph plant and plantago. This 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 and will exit via the Halemau'u trail. Participants will have to deal with the elevation. The cabin was built in the 1930s 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 stove top and a wood-burning stove to cook and keep warm. The reward is spending the weekend in a beautiful National Park. Contact leader directly if you are interested.

Saturday, July 12

Wiliwili (F)

5 mi/Strenuous/Ridge/Wai'ālae Reservations required. The beginning of the hike is a nice stroll followed by a

very steep climb to the Ko'olau Summit where we will enjoy great views. Jean Fujikawa jean_f@hotmail.com

Sunday, July 13

Photography hike: Lili'uokalani Garden (E/F)

Reservations required. The pace of photography hikes is extremely slow. Named after Hawai'i's last reigning monarch, Lili'uokalani Botanical Gardens is centrally located in lower Nu'uuanu valley. Nu'uuanu stream and Waikahalulu falls are favorite subjects among professional photographers and photo enthusiasts alike. The garden plantings consist of many interesting native Hawaiian plants in a natural setting. Stan Oka 429-9814, Clyde Kobashigawa clydekobashigawa@clearwire.net, John Shimogawa 227-9925, Susan Tom

Saturday, July 19

Ala Wai Boat Harbor Cleanup (S)
Meet at 8 a.m. at the Harbor Master's office, between the 3rd and 4th row of boats behind the Ilikai Hotel. Park in street stalls or public lot 'ewa of Hilton Lagoon. We will use nets and scoops to remove marine debris from the boat harbor. Wear sturdy shoes with gripping soles and bring a hat, sunscreen, and water. All participants under 18 must have a waiver signed by their legal guardian. Please contact the leader for the waiver. Closed-toe shoes only. No slippers or sandals of any kind. Deborah Blair 955-4168



Sunday, July 20

Sierra Seminar: Kaunala West (E/F)
5 mi/Moderate/Contour/Pūpūkea Reservations required. Native plants are the highlight on this trail, with beautiful views of central O'ahu. Clyde Kobashigawa clydekobashigawa@clearwire.net, John Shimogawa 227-9925, Stan Oka 429-9814, Susan Tom

Saturday, July 26

Kaukonahua (F)
6 mi/Moderate/+/~500'/Wahiawa We'll look for native birds as we make our way to a swimming hole. Gwen Sinclair gsinclair@gmail.com, 753-0528

Saturday, July 26

Hé'eia Fishpond Service Trip Paepae o Hé'eia (S)
1 mi/Moderate/ Kāne'ōhe Reservations required. The day begins at 8:30 a.m. and ends at 12 p.m. with lunch provided by our staff. We encourage individuals and large groups to sign up. All ages are welcome but children under 12 years old must be accompanied by an adult. Tasks include moving rock and coral, filling buckets, hauling floating barges through the

O'ahu Group Outings



10, reservations required. Dan Anderson 690-0479, danderhi@gmail.com

Saturday, August 9
MCBH Kāne'ōhe Bay Service Project (S)
Reservations required. Contact Dan Anderson at 690-0479 or danderhi@gmail.com by August 8. We will be helping clear wetlands of mangrove plants to create habitat for Hawai'i's endangered waterbirds. Because MCBH is a secured

water, cutting/pulling out invasive mangrove, invasive limu removal, trash pickup, and reconstruction of the kuapā. Please bring the following items to the workday: covered shoes or tabis (mandatory to participate), clothes you don't mind getting dirty, sunscreen, and water bottle. Optional: hat, towel, and a change of clothes. Colleen Soares csoares48@gmail.com, 748-9215

Sunday, July 27
Likeke Trail (F)

7.5 mile, one-way loop/Moderate/
Kāne'ōhe

Traditional contour hike below steep Kō'olau cliffs between Likelike and Pali Highways. Start and end in Ho'omaluhia Botanical Garden. Part of hike will be on Old Pali Road. Original trail developed by Richard "Likeke" Davis from 1959 to 1963 with help of Boy Scouts. Great windward views of Kāne'ōhe and Kailua Bay, Kō'olau, windward coast. We will end the hike by exploring a botanical garden. Group size limit to

military facility, we must provide your name to the base in advance. We'll send you a waiver, which you must bring with you. Deborah Blair 955-4168

Sunday, August 10

Pali Lookout Work Project (S)
Reservations required. We will be working with Kō'olau Mountains Watershed Partnership at the Pali Lookout doing some weeding and native outplanting. As we get closer to the date I will have more info on the times, meeting place, and schedule/activities for the day. Deborah Blair 955-4168

Sunday, August 17

Kamananui (Moanalua Valley) Hike (F)
11 mi/Strenuous/Valley & Ridge/Moanalua We'll meander through this lovely valley looking at historic sites before crossing the stream many times on our way to a steep climb to the Kō'olau summit. Gwen Sinclair 753-0528, gsinclair@gmail.com

Sunday, August 24

Photography hike: Pālehua-Palikea (E/F)
Reservations required three weeks prior. The pace of photography hikes is extremely slow. Not for those uneasy about heights. Native plants, scenic panoramas, and exquisite tree snails are the attraction in this preserve. Clyde Kobashigawa clydekobashigawa@clearwire.net, John Shimogawa 227-9925, Stan Oka 429-9814, Susan Tom

Saturday, August 30

Kawainui Trail Hike (F)
5 mi/ 200-ft elevation gain/loss/
Moderate/Kawainui
After a long drive through the fields above Haleiwa, we drop down into this deep valley. The trail begins by climbing to a cliff above the stream, and following along an irrigation ditch to a catchment dam. We cross the stream a dozen times to reach the reputed largest natural inland pool on O'ahu—great to cool off in. You will hear stories of our past adventures in the valley and see how the valley has been changed by man and nature. Meet at Haleiwa Beach Park at 9:00 a.m. Ed Mersino 455-8193, mersino@hawaii.edu assist: Dave Houle

Sunday, September 7

Photography Hike: Mānoa Cliff Trail to Pauoa Flats Hike (E/F)
3 mi/Easy/Contour/Tantalus
Contour trail with many native plants and scenic views of Mānoa Valley and looking into Nu'uau Valley. Be prepared with raingear. John Shimogawa 227-9925, Stan Oka 429-9814, Clyde Kobashigawa clydekobashigawa@clearwire.net, assist: Ronette Morales

O'ahu Group Outings

Sunday, September 14

Waimano Ridge (F)
15 mi/Strenuous/Ridge/+-1700'/Pearl City
Don't be put off by the mileage. This trail, a combination of irrigation ditch access and CCC trail, is nicely graded and leads to an awesome lookout over the windward side. Gwen Sinclair gsinclair@gmail.com, 753-0528

Saturday, September 20

Manana Trail Service Project (S)
We will hike about 1.5 miles up the Manana Trail and remove the Australian tea trees, paper bark trees, and other invasive species that are inhibiting the growth of koa trees and other native plants along the trail. Bring small pruning saws or clippers. The leader will have some tools available for those who don't have them. Be sure to bring plenty of water and a willingness to do some light work. Meet at the end of Komo Mai Dr. in Pacific Palisades above Pearl City at 8:30 a.m. Ed Mersino 455-8193, mersino@hawaii.edu assist: Dave Houle

Sunday, September 21

Sandy Beach Cleanup (S)
Meet at 8:30 a.m. at Sandy Beach bathroom at eastern side of the beach park. (Bathroom closer to Makapu'u.) We will clean up along highway and coastal areas until 10:30. Bags and gloves provided. All participants under 18 must have a waiver signed by their legal guardian. No one under 18 will be allowed to clean on the highway and will spend their time cleaning the beach and park area. Closed-toe shoes only. No slippers or sandals of any kind. Call Tred 394-2898 for information. Deborah Blair 955-4168

Two 3-Day Neighbor Island Service Trips



Saturday to Monday, October 11-13
Hakalau National Wildlife Refuge, Hawai'i Island (S)
Leader: Clyde Kobashigawa clydekobashigawa@clearwire.net, co-leader John Shimogawa 227-9925

The U.S. Fish and Wildlife Service manages this refuge. They are creating makai-mauka corridors of native vegetation across open pastures that native forest birds can use in their migrations up and down the slopes of Mauna Kea. The service projects usually involve planting native species such as koa or working in the greenhouse. Accommodations are at a well-equipped cabin at the 6,200-foot elevation with electricity, running water, a flush toilet, a hot shower, kitchen, and bunk beds with mattresses. Participants must 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 be borrowed from the refuge. The free-time activity may include a hike in a koa-ohia forest to observe native forest birds, some of which are on the endangered species list.



Saturday to Monday, October 18-20
Haleakalā National Park, Maui (S)
Leader: Dan Anderson danderhi@gmail.com, 690-0479

Our accommodation for the weekend is Kapalaoa Cabin, situated in the center of Haleakalā Crater. The work will be eradicating California telegraph plant and plantago. This 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 and we will exit via the Halemau'u trail. Participants will have to deal with the elevation. The cabin was built in the 1930s by CCC workers and is very rustic. There are no washroom or shower facilities. There is an outhouse and people will have to live with "horse baths." We do have a 2-burner gas stove top and a wood-burning stove to keep warm. The reward for this service project, if you're up to the challenge, is spending the weekend in a very beautiful and fascinating national park.



Kaua'i Group Report



Maha'ulepu's imperiled valley and coastline.

Lack of Transparency in Dairy Review Process Worries Island Residents

Kaua'i group continues to monitor the potential impact of a large-scale industrial dairy proposed for Maha'ulepu Valley and coastal area on Kaua'i. If not properly designed and regulated, Hawai'i Dairy Farms' project has the potential to cause significant and irreparable ecological damage.

The latest development involves HDF's second attempt at a comprehensive nutrient management plan (CNMP). Presenting an abundance of untested assumptions and erroneous information, HDF has been required to submit an adequate plan that is currently under review by the Department of Health (DOH). However, the public is not allowed to view the document.

The refusal to share critical information about the current proposal hinders the review process and fosters public distrust. At minimum, Kaua'i Group expects a final plan that includes proper mapping, hydrologic testing with a drainage plan, accurate anticipated effluent loads, specifics on pest management, water and air quality monitoring plans, established emergency response protocols, and procedures for disposal of dead cows.

Kaua'i group continues to lobby the DOH as well as the West Kaua'i Soil and

Water Conservation District (S&WCD). The group is calling on Hawai'i Dairy Farms and the Ulupono Initiative to collaborate with community stakeholders to ensure that a reduced herd size and a workable model is

developed to achieve a truly sustainable dairy. Group reps will be attending the next S&WCD meeting to advocate for strict review of the CNMP while working with staff from the DOH to ensure the document is satisfactory.

GMO Pesticides Discovered in Kaua'i Watersheds

Kaua'i is back in the spotlight for GMO controversy. While Biotech companies are working to block the island's right-to-know bill, pesticides used in the cultivation of GMO crops have been discovered on Kaua'i at agricultural sites downstream of seed crop operations.

A statewide study conducted by the Department of Health has determined that low levels of current use chemicals intended only for GMO operations are present throughout the island. While the levels detected did not exceed regulatory limits, they do exceed EPA-established aquatic life benchmarks.

These chemical companies are now suing Kaua'i County for the right to keep spraying chemicals near sensitive areas, and to do so in secrecy. Unfortunately, a proposal recently brought before the legislature that would fund further DOH chemical testing in waters statewide fell through. Now is the time to call on your state representatives; ask them to make GMO chemical testing a priority.

U.S. Navy War Games Threaten Hawai'i's Marine Life

Kaua'i Group is working with a number of other conservation and social justice groups to educate the public about the environmental impacts of navy training exercises coming to Hawai'i. RIMPAC (Rim of the Pacific) is a biennial demonstration to America's "coalition partners" and "enemies" that the U.S. Navy will do anything to maintain its military control over the vastness of the Pacific Ocean. The Navy will be sponsoring these war exercises in Hawaiian waters June 26–August 1; 23 countries have been invited to participate. There will be 43 ships, 200 aircraft, 6 submarines, and countless bombs, missiles, and torpedoes. They are planning to sink at least three ships and leave them to pollute the ocean bottom.

The Pacific Missile Range Facility (PMRF) on Kaua'i is the wheelhouse for many activities of RIMPAC. These activities include many that are damaging to ocean flora and fauna, such as the development of submarine-based ballistic missiles and nuclear warheads. The military has acquired permits that allow for the killing of thousands of marine mammals and endangered species. Ocean, reefs, beaches, dunes, valleys, and floodplains will be affected by lead and depleted-uranium munitions as well as pollutants such as bilge oil, hydraulic fluid, defoliants, and countless other contaminants used in war and war games.

The coalition (oceans4peace.org) will sponsor a teach-in on the impacts of RIMPAC. The group will have a RIMPAC hotline at (808) 337-9977, where people can report any unusual or dangerous activities that may have been caused by the war activities. The coalition will then report to the responsible authorities.

Kaua'i Group Outings

SEE PAGE 21 FOR GENERAL OUTINGS INFORMATION

Join us on one of these outings to explore Kaua'i. Mileage is total miles. Requested donation for members and participants under 18 is \$1; for others, \$5. Updates on the website: hi.sierraclub.org/Kauai/index.html
Note: Women are advised not to hike remote trails or camp alone on Kaua'i.

Would you like to become a Sierra Club Outings Leader? Please email judydalton123@gmail.com to find out how much fun you could be having.

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

Sunday, July 6

Maha'ulepu and Makauwahi Cave/ South Shore/moderate/ 3 miles. (C/E/F) Enjoy the majestic coastline. Visit the world-class sinkhole/cave archaeological site. Allan Rachap 212-3109

Saturday, July 12

Limahuli Work & Hike/ North shore/ difficult/ 3 miles (C/E/S) An unusual opportunity to spend some time working in the Limahuli native plant preserve and then hike to the back of the valley to the 800' waterfall. Jane Schmitt 826-6105

Sunday, July 13

Hōopi'i Falls/ East Side/3 miles/moderate (C/F) You'll be in for a delightful surprise discovering this forest trail along a river featuring two beautiful waterfalls. Greg Peters 413-522-3734 and Judy Dalton 246-906

Saturday, July 19

Waimea River Walk and Float. 10 miles/ difficult (C/F) Start at Kukui Trailhead and hike down into Waimea Canyon and along the old Waimea 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 Waimea

town and shuttle back to Kukui Trailhead. Please call Ken Fasig 346-1229

Saturday, July 26

Nukoli'i Beach Cleanup. East Shore/easy (S) Sierra Club and Surfrider collaborate to protect marine and other wildlife, the reef, and ocean from marine debris. Bring water and hat. We'll supply gloves, bags, and refreshments. 9am to noon. Check our website to see which end of Nukoli'i we'll be meeting at. Judy Dalton 246-9067

Wednesday, August 6

Nonou (Sleeping Giant) Conservation Service Project (C/S) East Side/strenuous/4 miles. Tend to endangered native plants in their habitat and enjoy a full moon walk. Sierra Club members only. Bob Nishek 346-0476

Saturday, August 9

Maha'ulepu Sunset to Full Moon Walk/ South Shore/ Moderate/3.5 miles (C/E/F) Start out mid-afternoon from Shipwreck Beach; walk along the coast to Maha'ulepu. Enjoy the setting sun and an almost-full moonrise. We'll shuttle cars for a one-way hike. Greg Peters 413-522-3734 and Judy Dalton 246-9067

Sunday, August 10

Tour de Poipu Bike Ride/13 miles (C/F) Cruise the scenic South Shore. Mostly flat but some moderate hills. BYOB (bring your own bike). Helmets required. Allan Rachap 212-3108

Saturday, August 23

Moloa'a Beach Cleanup (S) Sierra Club and Surfrider collaborate to protect marine and other wildlife, the reef, and ocean from marine debris. Will you please help? Look for banners along road fronting the beach. Bring your water and hat. We'll supply gloves, bags, and refreshments. 9am to noon. Judy Dalton 246-9067

Saturday, August 30

Alakai Swamp Hike/ Koke'e State Park/8 miles/difficult (C/E) Kaua'i's high elevation bog is home to some of the world's rarest plants. A panoramic view of the North Shore comes at trail's end. Jane Schmitt 826-6105

Wednesday, September 3

National Tropical Botanical Gardens Full Moon Walk/South Side/Moderate/2 miles (C/E/F) Hike and learn about plants in lovely gardens. Sierra Club members only. Bob Nishek 346-0476

Sunday, September 7

Maha'ulepu Sunset to Full Moon Walk/ South Shore/ Moderate/3.5 Miles (C/E/F) Start out mid-afternoon from Shipwreck Beach; walk along the coast to Maha'ulepu. Enjoy the setting sun and an almost-full moonrise. We'll shuttle cars for a one-way hike. Greg Peters 413-522-3734

Saturday, September 20

National Coastal Cleanup Day: Maha'ulepu Beach Cleanup/South Shore/easy (S) Sierra Club, Mālama Maha'ulepu & Surfrider team up to keep this magnificent beach free of ocean debris and litter. Drive on Po'ipu Road past Grand Hyatt Hotel onto dirt road to T-intersection and turn right. Look for organizations' banners. Bring hat and water. Bags, gloves, and snacks provided. 9am to noon. Judy Dalton 246-9067

Sunday, September 21

Pihea Trail/ Koke'e State Park/ 8 miles/ difficult (C/E) Amazing views into Kalalau valley and down through native forest to the Kawaiikoi stream. Jane Schmitt 826-6105

Wednesday, September 24

Waimea Canyon Road Cleanup/Easy/ 2 miles (S) Afternoon cleanup of Sierra Club's adopted highway requires a little over an hour. Please help keep the gateway to Waimea Canyon litter-free. Bob Nishek 346-0476

Maui Group Report

CHAIR'S REPORT

Aloha Maui Members! Recently we held one of our in-person Hawai'i Chapter Executive Committee meetings with delegates from each Group in the islands. The purpose of this meeting was to set strategic goals for the Chapter. Our main takeaway from this planning session was that clean renewable energy will be a priority in the coming years for the Club. Our goal is to see the increase of renewable energy generation and usage within the state. The proliferation of clean energy will reduce our dependence on polluting fuels like oil and coal. This change is a necessary step in reducing our carbon footprint. Climate change is the lens through which we view our choices.

The Maui Group Executive Committee accepted Michael Duberstein's resignation. Michael served on our board for the last four years and provided a valued perspective on many issues. He will be missed on our committee, but we are glad that he will be using his time on important issues in the years to come.

On that note I want to welcome Lily Stagg to our board. Lily is a fabulous volunteer who has worked with the Sierra Student Coalition for many years. She will be stepping up into Michael's position on the Maui Group Executive Committee. Her involvement with the Club in the past and youthful perspective will add much to our diverse board.

As always explore, enjoy, and protect the environment!

Chris Taylor
Chair, Maui Group

CONSERVATION UPDATES:

April-June 2014

North Shore Heritage Park & Ho'okipa Expansion: Maui Council can expand

Baldwin Park by a 35.5-acre donation of land if they purchase a 4-acre lot in Kahului from A&B for a new service center. Contact: Council Budget Chair Mike White: 270-5507 mike.white@mauicounty.us

Stream Restoration: Historic settlement of Na Wai Eha stream flow contested case returns a total of 25.4 mgd of water to three streams (12.5 mgd more than released in 2010). Residents continue to seek increased stream flows in Waikapu stream to support stream ecology and traditional agriculture.

East Maui Streams: Native Hawaiian communities and Maui Tomorrow will return to the water commission to seek a more equitable and biologically sustainable division of waters from 28 East Maui streams after the Supreme Court reversed the 2010 commission decision.

Regulation of Aquarium Fish Trade: Confrontations between aquarium collectors and conservationists monitoring their take brings the need for a statewide ban on aquarium collecting back into the spotlight. Appeal is pending on need for an EIS for aquarium-collecting permits.

Haleakala Solar Telescope (ATST): Construction on the 14-story telescope has begun, even though the Hawai'i Supreme Court agreed that the state land board did not follow its own process in granting a permit for the project.

Haleakala Trail: Victory! Maui jury finds (April 2014) in favor of PATH Maui: Haleakala Trail is and always has been a publicly owned trail. Next: determine remedies to allow public use of the trail. A bill to severely limit which historic

trails would be considered "public" was defeated in the legislature. Please help this historic effort by donating to the legal fund at pathmaui.org

Lahaina Wastewater Injection Wells: Victory! Federal court ruled (May 2014) Maui County's Lahaina wastewater plant not in compliance with the Clean Water Act and must apply for a NPDES permit.

Wailea 670: Settlement discussions continue. Recent archaeological survey proposes 152 acres of preserve (original offer was 40 acres before litigation). Donate to Wailea 670 legal fund: mauisierraclub.org

Makena Resort: The resort's new partnership was granted an SMA permit (May 2014) to build new for-sale condo units and replace existing hotel with a new, smaller one. Permit did include some conditions requested by Sierra Club and others.

Kihei Mega Malls: An EIS is being prepared for the new "revised" commercial and housing project on the site formerly proposed for two large malls. The LUC is expected to hear the matter in September.

OUTINGS

SEE PAGE 21 FOR GENERAL OUTINGS INFORMATION

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

A donation of \$5 (\$3 for Sierra Club members) is requested of hikers over age 14.

East Maui Irrigation Company (EMI) allows us to hike across their beautiful

Maui Group Outings

land so long as each hiker has a waiver. An EMI waiver is absolutely required for EMI hikes (listed below). One waiver covers all EMI hikes for this quarter. Call EMI office well in advance at 808-579-9516 to request a waiver and make an appointment to come in and sign it. Then go to EMI's Pa'ia office at 497 Baldwin Avenue to sign the waiver. Waivers cannot be mailed, faxed, or emailed. Please be considerate of EMI staff time and pick up waiver 5 days in advance whenever possible. The waiver must be brought on the hike and shown to the hike leader.

Friday, July 11

Iao Valley Service Trip (C/E/S)
D=2 mi R/T. We will have fun helping out in the taro ponds before going on a beautiful hike in Iao Valley. Bring hat, sunscreen, water, lunch, and shoes that can get muddy. You may want to take a dip in Iao Stream afterwards. Meet near the restrooms at Iao Valley State Park at 9 a.m. No limit. Contact Hike Leader Dr. Janet Six at 808-344-0566 or sixjanet@gmail.com to register.

Sunday, July 13

Hanau'la Ridge: Service Outing and Native Forest Hike (above Ma'alaea and Waikapu) (C/E/S)
D= 2 mi R/T. Some steep, muddy trails. Help Maui Cultural Land's native plant restoration project. Hike with spectacular views and lush native plant life. We carpool to site in 4WD vehicles. Meet 8:30 a.m. Maui Ocean Center parking, Carl's Junior end. Bring water, lunch, sturdy shoes, jacket (can be chilly/rainy). Limit 12. Contact Hike Leader Robin West: rwest808@yahoo.com
Assistant Leader: Lucienne de Naie

Saturday, July 26

Peahi Archaeological Tour (Haiku) (C/E)

D= 4 mi R/T. Gulch trail on private land. Some climbing and muddy paths. Step back in time to precontact Hawai'i in an area under study by UH archaeology students. Meet 9:00 a.m. at Haiku Community Center to carpool to site. Bring water, lunch or snack, hat. Limit 20. Contact Hike Leader Archaeologist Dr. Janet Six 808-344-0566 or sixjanet@gmail.com to register.

Saturday, August 2

Wailua Iki Stream Hike (E/C)
D=6 mi R/T. Moderate hike above Hana Highway through beautiful forest on windy, muddy jeep road. Pools, waterfalls, and lush plant life. Bring appropriate footwear, sunscreen, lunch, and water. Meet 8:00 a.m. at Haiku Community Center. EMI waiver required (see above). Limit: 15. Leader: Kalei Johnson. Call 808-344-0006.

Saturday, August 9

Waikapu Stream Trail Improvement/ Hike and Swim (S/ C/E)
D=3 mi R/T. Help clear away overgrowth from trail along south (Tropical Plantation) side of Waikapu stream, then enjoy a short hike and swim. Water-friendly footwear required. Bring loppers, small saws, cane knives, gloves, water, lunch/snack. Meet 9 a.m. Maui Tropical plantation parking lot south end. Limit 18. Contact Hike Leader Robin West rwest808@yahoo.com

Sunday, August 24

Hanawai Stream Hike (Nahiku Area) (C/E)
D= 4 mi R/T. Very strenuous. Pools waterfalls, native stream life. Numerous stream crossings. Good water footwear a must. Meet 8:30 a.m. at Haiku Community Center. EMI waiver required (see above). Limit 15. Contact Hike Leader Lucienne de Naie laluz@maui.net or 808-214-0147

Saturday, September 6

Lower Waikamoi Stream (C/E)
D=3 mi R/T. Short but rugged stream hike from Waikamoi Ridge trail on Hana Hwy upstream to pool/waterfall. Native plants, scenery. Bring lunch, water, hat, and water-hiking footwear. Meet 8:00 a.m. Haiku Community Center. Limit 12. EMI Waiver required (see above). Contact Hike Leader Kalei Johnson at 808-344-0006.

Saturday, September 20

Makapipi Trail Hike (C/E)
D=4 mi. Varied terrain. Kō'olau Ditch trail: Makapipi to Kopili'ula Stream. Scenic vistas, pools, waterfalls, and native plant life. Hike crosses several bridges with no handrails; not recommended for those uneasy about heights. EMI Waiver required (see above). Meet at 8:00 a.m. at the Haiku Community Center. Limit 15. Contact Hike Leader Miranda Camp mauimiranda@hotmail.com

Friday, September 26

Kihei Coastal Trail Sunset Hike (C/E)
D= 2.5 mi. Mana Kai resort to Kalama Park. Pleasant late afternoon walk with historical comment. Some uphill/downhill. Meet 3:30 p.m. at Mana Kai public beach parking lot. No limit. Contact Hike Leader Lucienne de Naie laluz@maui.net 808-214-0147.

Sunday September 28

Polipoli Trail Hike (C/E)
D = 6 miles R/T. Forested trails with fabulous views. Bring lunch, sunscreen, and water. Meet at Pukalani ACE parking lot at 8 a.m. Limit 12. 4WD good, but any car with good clearance can make road under good conditions. Register with Hike Leader Jake Hargis hargis08@gmail.com

Moku Loa Group Report & Outings

Hilo hosted a number of do-not-miss events for Hawai'i environmentalists and Sierra Club members in May.

Events focused on GMO (genetically modified organisms) were front and center, on four occasions. Dr. Herrera-Estrella, Director of the National Laboratory of Genomics for Biodiversity in Mexico, spoke in support of GMOs. When asked about long-term human health experiments, he stunned many of us by saying we were all the experiment, since we were consuming GMOs.

But he also spoke about his disappointment that Monsanto had gained rights to some of his institution's work through legal action, and said he supports labeling of GMOs.

Dr. Tyrone Hayes, professor of Integrative Biology at the University of California, spoke about the risks of atrazine and other chemicals. His work was used in a lawsuit against Syngenta, the manufacturer of atrazine. Syngenta has tried to discredit him.

Dr. Lorrin Pang, director of Maui Department of Health but speaking as a private citizen, described the hazards of GMOs in down-to-earth terms.

Finally, a GMO debate featured a University of Hawai'i (UH) representative and a farmer supporting GMOs, and a UH professor and a Hawai'i County Council member opposing them.

The focus shifted to energy at a hearing on the Hawai'i Clean Energy Initiative. Citizens questioned the safety of geothermal energy, the risks versus the benefits of the interisland cable, the lack of cost estimates in planning, and the future of centralized energy generation.

Then came the crown jewel—a chicken-skin event on Polynesian navigation that drew hundreds. It featured a movie about Mau Pailug,

traditional navigator from Micronesia, and a "talk story" on stage with navigators who had learned from him. It was a fitting sendoff for the worldwide voyage of Hōkūle'a and Hikianalia, a voyage dedicated to a vision our members share—a more sustainable world.

Cory Harden
Conservation

OUTINGS

SEE PAGE 21 FOR GENERAL
OUTINGS INFORMATION

D = distance, the estimated round trip for the day. E = elevation in feet. + is gain, - is loss, +/- is up and down. Classification of Hikes: (E) = Education/ Interpretation (C) Conservation (F) Family/Fun (S) Service.

Requested donation for members and participants under 18 is \$1. Donation for others: \$5. For most hikes, bring 2 quarts of water, rain gear, sturdy hiking shoes, hiking stick, hat/visor, and lunch. For full descriptions and updates go to hi.sierraclub.org/Hawaii/outings.html

Sunday, July 13

Pepe'ekeo Cliffs Dayhike (E, F)

D = 3 miles, E = 200' +/- 100'

Walk along mowed trails atop the Hamakua Cliffs, enjoy views of nesting seabirds, and explore historic sites. Leaders: Michael and Sunny LaPlante 964-5017.

Saturday, July 19

Restoration of Keau'ohana Rain Forest (S, E, C)

D = 0.5 miles, E = 600'

Join the nonprofit group Mālama O Puna in its efforts to restore the largest

and most intact lowland native forest remaining in the state. You will learn about a unique forest habitat with numerous native plant species including the endangered Ha'iwale, which is found only in the Puna District. Bring mosquito repellent, work gloves, good boots, and a willingness to work. Leaders: Linda Larish 966-6337 and Kana Covington 966-8431.

Sunday, July 20

Hawai'i Volcanoes NP, Maunaiki Trail: Kau Desert Trailhead to Halina Pali Road (E)

D = 9.2 miles, E = 3,000' +/- 300'

This is a long, open lava field hike with possible exposure to vog. We will view footprints left in the lava from the 1790 Kilauea eruption and many interesting volcanic features on this one-way shuttle hike. Join us for a special opportunity to see this incredible area west of Kilauea's summit eruption. Leaders: Jim Buck 315-7914 and Diane Ware 967-8642.

Saturday, July 26

Kaloli to Haena (Shipman Beach) (E)

D = 6 miles, E = sea level

Hike on a historic trail in Puna, which used to be an inland carriage road from Paradise Park to the beach at Haena. Observe nene and interesting backshore ecosystems. The rocks could be slippery due to high waves. Bring sunscreen, a hat, sturdy boots, a swimsuit, and lunch. Leaders: Sarah Moon 935-3475 and Linda Larish 966-6337.

Sunday, July 27

Kailua Park Old Airport to Honokohau Harbor Shoreline Hike (E)

D = 4 miles, E = sea level

This is an exposed coastal afternoon hike passing cultural sites. The hike will begin at Kailua Park Old Airport and

Moku Loa Group Outings

end at Honokohau Harbor. Along the way, we will stop at the restored fish pond and Heiau. Leaders: Diane Ware 967-8642 and Rich Vogler 328-8387.

Saturday August 9, 2014

Mauna Kea Forest Restoration Project (DOFAW)—(E, C, S, F)

D = 0.5-1.0 miles, E = 6,500'

Join us doing service work at Ka'ohē on the slopes of Mauna Kea. We will be collecting seeds for future planting in Palila critical habitat. Before seed collection, we will go bird watching, looking for the endangered Palila. Sturdy boots required and a 4X4 vehicle would be helpful. Please register by August 1 to be part of this opportunity. Leaders: Diane Ware 967-8642 and Sarah Moon 935-3475.

Saturday/Sunday, August 9-10

Mauna Kea Cabin Overnight (S, E, C)

D = 0.5-1.0 miles, E = 6,500'

After the service work at Ka'ohē on Saturday, we will continue with leader training on Sunday. We will be

staying in one of the cabins at Mauna Kea State Park Saturday night. Sierra Club members who are interested in becoming leaders are welcome to join us. This is a great opportunity to learn about leading hikes and becoming involved in local conservation efforts. Meals can be prepared at the cabin. Leaders: Sarah Moon 935-3475 and Diane Ware, 967-8642.

Saturday, August 16

Kalopa Nature Trail and Old Jeep Road and Gulch Trail (E, F)

D = 4 miles, E = 2,000' +/- 500'

First we will be going on an interpretive nature hike through Kalopa State Park's native forest. After a short break, we will continue on the old jeep road to the highest elevation in the park, passing through groves of 70-year-old eucalyptus, silk oak, and paperbark trees. After lunch at the top, we will descend back to the cabins along the Hanaipoē and Kalopa gulches. Leaders: Linda Larish 967-6337 and Sarah Moon 935-3475.

Saturday, August 23

Hawai'i Volcanoes NP, Mauna Loa Trail Day Hike (E)

D = 6 miles, E = 6,700' +/- 1,500'

We will be hiking on the Mauna Loa trail past fabulous native plants and interesting lava terrain. The hike starts and ends at the lookout on Mauna Loa access road. Leaders: Diane Ware 967-8642 and Rich Vogler 328-8387.

Saturday, September 20

Bike in the Rain Forest: Hawai'i Volcanoes NP, Crater Rim Trail to Mauna Ulu (E)

D = 14 miles, E = 4,000' +/- 1,000'

Enjoy the rain forest and great views while we bicycle in Hawai'i Volcanoes National Park. Plan to go rain or shine. Bring your bike, helmet, gloves, snacks, and lunch. A shuttle will be required for this one-way ride. We also recommend two quarts of water, sunscreen, and rain gear. Leaders: Jim Buck 315-7914 and Diane Ware 967-8642.

SIERRA CLUB OUTINGS POLICY

For all Sierra Club Outings: 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 Sierra Club members, non-members, and visitors on most of our outings; however, certain outings may be restricted to members. Firearms, pets (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 www.sierraclub.org/outings/chapter/forms or call 415-977-5630.

In the interest of facilitating the logistics of some outings, sometimes participants make carpooling 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 the participants. Participants assume the risks associated with this travel.

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

Chapter Directory

“To explore, enjoy, and protect the wild places of the earth; to practice and promote the responsible use of the earth’s ecosystems and resources; to educate and enlist humanity to protect and restore the quality of the natural and human environment; to use all lawful means to carry out these objectives.”

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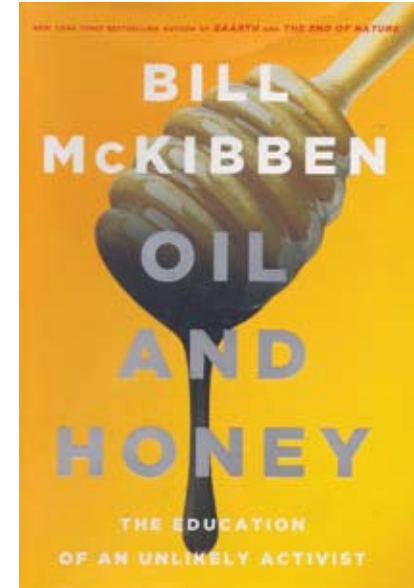
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BOOK REVIEW:

The Sweet Story of Ending America's Pipe Dream

By Steven Lee Montgomery, Ph.D.



An Earth Day treat for Honolulu denizens like me was hearing the exceptionally passionate and surprisingly positive UH-campus-hosted speeches of Al Gore (April 15), and the greatest climate advocate on the planet, Bill McKibben (April 28). Thus warmed up, when I saw *Oil and Honey* on McKibben's autographing table (newest of his 14 books), as an avid beekeeper with nine teetering hives, I queued up and gladly paid \$26 to see this peripatetic professor's pitch on a pair of my perennial passions.

A wise and well-traveled friend had given me his annotated copy of Bill McKibben's *Eaarth*, and a visionary pal had extolled the earth-quaking *The End of Nature*, so I knew this golden cover held no bedtime snore maker. I do concur with the blurb writers that “yet again, the most effective environmental activist of our age” (Tim Flannery) “blazes a path to help preserve nature's greatest resources” (Dr. James Hansen).

This is a riveting story of two wise citizens responding to the planet coming apart by boosting each other's dogged

and visionary actions. This professor and a score of students have built the first green movement of the internet age by focusing on the climate-wrecking Keystone XL pipeline proposed from Alberta to Texas. They set up 350.org and conducted peaceful, informative acts of civil disobedience at the White House fence, gathering allies from across the spectrum of environmental and social justice movements. McKibben writes, “One of my jobs was rounding up prominent people to go to jail,” and soon he reports 1,253 arrests in two weeks.

Some of his recruits were from the CIA (Cowboy-Indian-Alliance), led by Gitz Crazyboy, a dynamic Indian leader from Canada's tar sands desert; Bobby Kennedy Jr. with his son; and the venerable Julian Bond of NAACP fame on the path of environmental justice. Bond concluded, “Whatever color you are, the green movement is your movement. I was proud to go to jail as a protester against the Keystone XL Pipeline.”

The author tells of the Sierra Club's new Director, Michael Brune, coming to a Washington, DC action from the Jersey coast, where his childhood home was just wrecked by Superstorm Sandy. Heeding student placards to “Take the gas out of superstorms,” Brune offered to take the lead in planning a new DC demonstration for the next pitched battle with the fossil fuel industry. Brune's participation in the White House protest was the first time Sierra Club has engaged in civil disobedience. (See grist.org/climate-energy/a-chat-with-the-sierra-clubs-michael-brune-about-civil-disobedience/)

Naomi Klein showed McKibben data that the fossil fuel industry was planning to wreck Earth with polluting gases, and as Obama's term two began, in Seattle they launched a 20-cities-in-20-nights climate and music road show. We read how that ignited a divestment

movement to sever university endowments' ties to carbon sellers who profit from climate damage.

Reading this book has been a joy, as President Obama extends yet again his analysis of the Canadian border pipe-crossing request (I predict a late

McKibben writes, “One of my jobs was rounding up prominent people to go to jail,” and soon he reports 1,253 arrests in two weeks.

November denial). The June 1 *New York Times* touts new executive branch EPA regulations to curb carbon emissions that will “transform the nation's energy sector, and at the same time, his presidency.” This is hopeful in the face of Congress's appalling gridlock on climate rescue, due mostly to the GOP (operationally the Grand Oil Party).

The second interwoven life tale is of the Vermont bachelor beekeeper Kirk Webster, whom he invited to live on a new McKibben family farm with a self-designed queen bee husbandry and organic honey business thriving in the face of the continental Colony Collapse Disorder. Kirk had put an essay in *Small Farmer's Journal* on his healthy, self-sufficient farming experience as a civilized alternative. Bill alternates chapters on learning to make clean honey and reducing oil damage by assisting Kirk with his beehive building, then going on the road, becoming a reluctant, effective activist.

Read this book to find the lessons of honey bee democracy and how we can build a world that will remain livable. As McKibben writes, “We're going to have to change our patterns, our laws, our economies, our expectations.”



SIERRA CLUB, HAWAII CHAPTER

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MĀLAMA I KA HONUA "Cherish the Earth" A Quarterly Journal of the SIERRA CLUB OF HAWAII

JULY - SEPTEMBER 2014

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