HE WA'A HE MOKU MALAMA HONUA

CARING FOR OUR ISLAND EARTH

24TH ANNUAL HAWAI'I CONSERVATION CONFERENCE
JULY 18-20TH, 2017



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CONSERVATION CONNECTIONS



mai kākol



Welcome to the 24th Annual Hawai'i Conservation Conference, co-sponsored by the Hawai'i Conservation Alliance and the Hawai'i Conservation Alliance Foundation. The Conference brings together the largest gathering of natural and cultural resource managers, scientists, education specialists, and community conservation practitioners who are working to conserve and protect biocultural resources in Hawai'i. For those of you who have participated in past conferences, welcome back. For those attending for the first time, mahalo for joining us in what promises to be a truly inspiring event.

This year's theme, He Wa'a, He Moku - Mālama Honua: Caring for Our Island Earth, reminds us of the need to treat the biocultural resources of our island home and earth as carefully as we would the limited provisions of a wa'a (canoe). "He wa'a he moku, he moku he wa'a" translates as "the canoe is an island, and the island is a canoe." In Hawai'i, like on a voyaging canoe, we must work together to ensure the sustainability of our communities, islands, and planet. Effective stewardship requires integration of cultural knowledge and practice with the best available science and technology, as well as collaboration across sectors. This conference is a place to build and share our collective toolkit for conservation at home and around the globe.

The conference will also commemorate the return of Hōkūle'a, the Polynesian Voyaging Society's wa'a kaulua (double-hulled voyaging canoe), following her inspirational worldwide voyage, that shared the message of mālama honua, the need to care for our earth and grow the movement towards a more sustainable world. We will also assess strides made since the International Union for the Conservation of Nature World Conservation Congress (IUCN Congress), held in Honolulu last year. The IUCN Congress put our islands on the global stage, compelling us to think of our impact across the planet and resulting in a series of commitments towards the stewardship of natural and cultural resources in Hawai'i and around the world. We will reflect on collective achievements and chart our course to protect our Island Earth for generations to come.

We are honored to welcome our keynote speakers: Nainoa Thompson, Ocean Elder and President of the Polynesian Voyaging Society that recently completed the Mālama Honua Worldwide Voyage; famed New Zealand naturalist and entomologist, Ruud Kleinpaste, host of Animal Planet's Buggin' with Ruud and an advocate for environmental education; and, an esteemed panel of Hawai'i leaders involved with the formation and implementation of the Hawai'i Commitments. The Conference will also provide opportunities to learn about new technologies, different methods and approaches to conservation, advances in research, and will showcase successful partnerships between communities, youth, the private sector, governmental agencies, and conservation organizations.

Thank you again for joining us in what promises to be a memorable and successful event. Effective conservation is only possible when done with the spirit of laulima when all work harmoniously together. We hope the 24th Hawai'i Conservation Conference fosters progress in tackling some of Hawai'i's most pressing conservation issues as well as the formation of connections that will endure for years to come!

Mahalo!

Emma Anders Program Director **Emily Gardner**

Executive Director Hawai'i Conservation

Randy Kennedy

Nāmaka Whitehead Chair

Hawai'i Conservation

Alliance

Hawai'i Conservation Alliance

Chair Hawai'i Conservation Alliance Foundation Alliance Foundation



HAWAI'I CONSERVATION ALLIANCE

A Partnership Dedicated to Environmental Stewardship, Community Engagement, and Conservation Capacity

The Hawaiʻi Conservation Alliance envisions thriving, abundant lands and seas with their native ecosystems actively cared for by generations of stewards, steered by excellent science and Hawaiian values and practice.

We provide unified leadership, advocacy, and collaborative action to conserve and restore native ecosystems and the unique biodiversity of our islands.

Bernice Pauahi Bishop Museum Allen Allison, Norine Yeung

Conservation International - Hawaiʻi Ulu Ching, Aarin Gross

Hawai'i Association of Watershed Partnerships Chris Brosius, Colleen Cole

Hawai'i Department of Agriculture

Hawaiʻi Invasive Species Council Joshua Atwood

Hawai'i Invasive Species Committees Lori Campbell

Hawai'i Department of Land and Natural Resources, Division of Aquatic Resources Elia Herman, Bruce Anderson

Hawai'i Department of Land and Natural Resources, Division of Forestry and Wildlife Emma Yuen

Kamehameha Schools

Nāmaka Whitehead, Jason Jeremiah

National Park Service

Melia Lane-Kamahele, Natalie Gates

National Oceanic and Atmospheric Administration, National Marine Fisheries Service, Pacific Islands Regional Office Michelle Mansker

National Ocean and Atmospheric Administration, National Ocean Service Athline Clark, Jean Tanimoto

National Tropical Botanical Garden Chipper Wichman, Kawika Winter

The Nature Conservancy Hawai'i Samuel M. 'Ohukani'ōhi'a Gon III, Manuel Mejia, Jason Sumiye

Office of Hawaiian Affairs

Blake "Brutus" LaBenz, Olu Campbell

Pacific Islands Climate Change Cooperative
Deanna Spooner, Jeff Burgett

Pacific Islands Climate Science Center David Helweg

University of Hawai'i at Hilo Sharon Ziegler-Chong, Jim Beets, Don Straney

University of Hawaiʻi at Mānoa: Center for Conservation Research and Training Kenneth Kaneshiro, Rob Cowie

U.S. Department of Agriculture, Forest Service, Institute of Pacific Islands Forestry

Ric Lopez, Christian Giardina

U.S. Department of Agriculture, Forest Service, Pacific Southwest Region Jodi Chew

U.S. Department of Agriculture, Natural Resources Conservation Service Jennifer Higashino

U.S. Department of Agriculture,
Animal Plant Health Inspection Service
Craig Clark

U.S. Department of Defense, Army Garrison, Hawai'i Natural Resources Program Kapua Kawelo

U.S. Fish and Wildlife Service, Ecological Services Kristi Young, Mary Abrams, Stephen Miller, Dan Polhemus

U.S. Fish and Wildlife Service, National Wildlife Refuge Complex Barry Stieglitz

U.S. Geological Survey, Pacific Island Ecosystems Research Center Gordon Tribble, Jim Jacobi



Hawai'i Conservation Alliance FOUNDATION

Founded in 2006, the Hawai'i Conservation Alliance Foundation (HCAF) is a registered 501(c)(3) non-profit with the purpose and mission to support and advance the capacity-building, native ecosystem and biocultural conservation work of the Hawai'i Conservation Alliance through fundraising, advocacy, and strategic outreach and communications.

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Tara Meggett, Next Gen Coordinator
Kawena Elkington, Outreach Assistant
Scott Van De Verg, Americorps Outreach Intern

HAWAI'I CONSERVATION ALLIANCE FOUNDATION

Emily Gardner, Executive Director **Lisa West,** Operations Manager

www.hawaiiconservation.org www.facebook.com/HawaiiConservation www.twitter.com/HCAFriends

2017 CONFERENCE PLANNING COMMITTEES

Mahalo nui loa for making the conference possible!

sible!

CONFERENCE MANAGEMENT TEAM

Emma Anders, Emily Gardner, Tina Lee, Kawena Elkington, Scott Van De Verg, Tara Meggett, Lisa West, Lee-Ann Choy, Kanoelehua Renaud, Māhealani Bambico

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Camara, Kawena Elkington

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CONFERENCE THEME WORKING GROUP

Nāmaka Whitehead, Sam 'Ohu Gon, Christian Giardina, Brutus LaBenz, Joshua Atwood, Kristi Young, Tina Lee

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Carolann Biedermann Consulting

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Amanda Corby, Under My Umbrella Public Relations, Marketing & Events

ART AND DESIGN

Tiffany Mathews Design Merlin Edmonds, Cultivate Hawaiʻi Nā Mea Hawaiʻi Randy Bartlett

WORK EXCHANGE PROGRAM

Kawena Elkington, Erin Feeney

OTHER KEY CONTRIBUTORS

Randy Tanaka Dorothy Iwamoto, The Office Manager Polynesian Voyaging Society Nā Kālai Waʻa

SPECIAL MAHALO TO OUR WORK EXCHANGE PROGRAM VOLUNTEERS

Team: Kawena Elkington, Erin Feeney

Team Leads: Giancarlo Baffaro, Christine Elliott, Nakoa Goo, Taylor Smith, Cassandra Springer, Melissa Valdez

Volunteers: Giancarlo Baffaro, Ashton Bandy, Corey Bassett, Gabriela Benito, Betsy Black, Chai Blair-Stan, Donna Brown, Joel Brunger, Heath Carolyn, Daniela Casillas, Bethany Chagnon, Elena Chang, Avalon Coley, Weber Danya, Christa DeRaspe, Edna Diaz Negron, Christine Elliott, Julia Espaniola, Annalea Fink, Nakoa Goo, Whitney Goodell, Sydney Hahn, Gretchen Hardy, Keely Hassett, Kiefer Hermann, Kristen Hofer, Yu-Fen Huang, Angela Huntemer-Sidrane, Andrew Jansen, Kristina Jenkins, Makana Kahā'ulelio, Ekela Kaniaupio-Crozier, Kahoali'i Keahi-Wood, Joseph Kern, Kim Kido, Diana King, Nalani Kito-Ho, Kaili Kosaka, Lance La Pierre, Kristy Lapenta, Steven Leone, Kawehi Lopez, Gabrielle Lout, Jeannie Lum, Tristan Luxner, Caitlin Manley, LorMona Meredith, Alyssa Miller, Laura Mo, Margaret Morrison, Tamara Musselman, Stephanie Nagal, Calley O'Neill, Anthony Olegario, Rebecca Pan, Courtney Payne, Amberly Pigao, Daniel Plankenhorn, Jessica Pojas, Andrea Rey, Aisha Rickii-Rahman, Randi Riggs, Paul Riley, Pia Ruisi-Besares, Solange Saxby, Allison Shafer, Christina Sloss, Taylor Smith, Jody Smith, Donna Spix, Cassandra Springer, Andrei Stanescu, Laura Stanley, Evan Strouse, Jamie Tanino, Eric Tong, Josephine Tupu, Jermy Uowolo, Melissa Valdez, Lindsay Veazey, Lynette Williams, Kelly Williams, Cody Yamaguchi, Michael Yee, Lukanicole Zavas

The Hawaiʻi Conservation Conference Program has gone digital!

Download the app HCC 24 to view the program schedule, abstracts, speaker bios, and create your own personalized agenda. The app is compatible with Mac and Android devices.

To access the app:

- 1) Download "HCC 24" from your Android Play Store or Apple App Store.
- 2) Save and load the program on your smart phone or tablet device

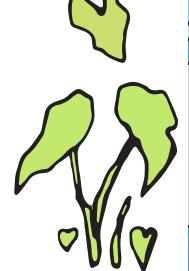
Features of the app include:

- View the Conference Program by day
- Create your agenda based on sessions that are of interest to you
- Read through complete abstracts

If you need help with the app or finding a session, visit the Hawai'i Conservation Conference Help Desk during conference hours, located right outside room 312.







Conservation

Contenence

24th Armual Hawaii Conservation

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KEYNOTES

TUESDAY, JULY 18TH - OPENING KEYNOTE 9:15-10:15AM, ROOM 316 A/B/C



NAINOA THOMPSON

President, Polynesian Voyaging Society

Nainoa Thompson is the President of the Polynesian Voyaging Society and an Ocean Elder. Inspired by his kupuna, his teachers, he has dedicated his life to exploring the deep meaning of "voyaging". Through his work, he has inspired a global, multi-generational dialogue on the importance of mālama, of caretaking. Nainoa has dedicated his life to exploring the ocean, maintaining the health of the planet and ensuring that the ancient maritime heritage and culture of Polynesia remain vibrant and help guide the world to a sustainable future.

PRECEDING KEYNOTE: Hawai'i Conservation Alliance Outstanding Leadership Award

This award is given to a person who has demonstrated exceptional leadership in advancing environmental conservation in Hawai'i over the short to medium term (several years to a decade).

WEDNESDAY, JULY 19TH - KEYNOTE

9:00 - 9:45AM, ROOM 316 B/C



RUUD KLEINPASTE

Naturalist, Environmental Advocate

Born in Indonesia, then raised and educated in the Netherlands, Ruud Kleinpaste migrated to New Zealand in 1978 with an MSc (Hons) in silvicuture, animal ecology and conservation from Wageningen University. Entomology was always an important hobby that later became part of his main work activities and ultimately, his media persona: the Bugman. Ruud studied kiwi (New Zealand's iconic bird) in Waitangi forest (in the far north of the country) and worked as scientist (entomology) with the Ministry of Agriculture (now Ministry for Primary Industries) for 14 years, before tackling the world of media, communication and consultancy on his own.

FOLLOWING KEYNOTE: Hawai'i Conservation Alliance Conservation Innovation Award

This recognition is given to the instigators or champions of a procedure that leads to significant advances to the structure or nature of environmental conservation in Hawai'i.

THURSDAY, JULY 20TH - PLENARY PANEL 9:00 - 10:00AM, ROOM 316 B/C

HAWAI'I COMMITMENTS: INSPIRING CONSERVATION AT HOME AND AROUND THE WORLD

In 2016, the International Union for the Conservation of Nature (IUCN) adopted the Hawaiʻi Commitments. Compiled by IUCN's over 1300 members from 160 countries at the 2016 IUCN World Conservation Congress, the Hawaiʻi Commitments set the direction for global conservation priorities over the next four years. This panel will examine the Commitments, Hawaiʻi's role in implementing them, and how Hawaiʻi can continue to grow as a global leader in conservation. Panelists will explore ways we can collectively address environmental challenges that threaten our biocultural resources as well as opportunities to foster a strong culture of conservation locally and around the world.

PANFLISTS



The Honorable David Ige: Governor of the State of Hawai'i



Chipper Wichman: CEO and Director, National Tropical Botanical Gardens; Vice Chair of 2016 World Conservation Congress Host Committee



Denise Antolini: Associate Dean for Academic Affairs, William S. Richardson School of Law; Deputy Chair of the IUCN Steering Committee for the World Commission on Environmental Law



Ulalia Woodside: Executive Director, The Nature Conservancy of Hawai'i



MODERATOR
'Aulani Wilhelm: Senior
Vice President of the Center
for Oceans, Conservation
International



FOLLOWING KEYNOTE: The Hawai'i Conservation Alliance Distinguished Service Award

The award honors exceptional service, personal effort and unselfish interest, embodying long-term dedication and tenacity in environmental conservation for the Hawaiian Islands.

The Hawai'i Conservation Alliance Legacy Award

The award recognizes early pioneers in modern conservation in Hawai'i who laid the groundwork to establish conservation programs, create environmental education and advocacy efforts, and mentor conservation practitioners and leaders. This is a posthumous award.



SPECIAL EVENTS





Join us for...

TUFSDAY

Poster Session and Opening Reception Room 311 // 5:30 - 7:30pm

Poster Group 1, 5:30 to 6:00pm

Poster Group 2, 6:00 to 6:30pm

Poster Group 3, 6:30 to 7:00pm

Poster Group 4, 7:00 to 7:30pm

For a list of posters in each group, see page 22



WEDNESDAY

Conservation Connections Public Afternoon // 1:00 - 5:30pm

Invite your friends and family to the Hawai'i Conservation Conference during the Conservation Connections Public Afternoon! From 1:00 to 5:30pm, all sessions, posters, and exhibition are open to the public. In addition to our scheduled conference programming, we also invite the public to join a series of special community events, including:

Promise to Pae 'Āina Gallery

1:00 to 5:15pm, 311

Pacific Eco-Poetry Performance

3:15 to 4:15pm, 316 A

My Hawai'i Story Contest Award Ceremony

4:15 to 5:15pm, 316 A

Sustainable Hawai'i Initiative with Governor David Ige

3:15 to 5:15pm, 316 B/C

Kupu Alumni Pau Hana,

6:00pm, Home Bar and Grill, 1683 Kalakaua Ave

THURSDAY

Closing Pau Hana and Student Awards 3rd floor concourse // 3:15 - 5:00pm

Join us for the official closing reception of the 2017 Hawai'i Conservation Conference. Enjoy pūpū and other treats from our favorite local chefs while celebrating the winners of our 2017 Hawai'i Conservation Conference student awards. Pūpū will be served, no-host cash bar.

LOCAL FOOD AMBASSADORS

Chef Mark "Gooch" Noguchi

Chef & Co-Founder, Pili Group LLC

Chef Ed Kenney

Chef & Owner of Town Hospitality Group

Ehuola Keiki of Roots Cafe

Kokua Kalihi Valley

Chef Ray German

Head Chef @ Four Seasons Resort at Ko Olina

Ono Pops

MUSIC by Keilana and Evan



24th Annual Hawai'i Conservation Conference

SCHEDULE OVERVIEW

Tuesday, July 18th, 2017

8:00 - 8:45АМ	Opening Protocol, 3rd floor concourse			
8:45 - 9:00AM	Welcome and Opening Remarks, 316			
9:00 - 9:15AM Hawaiʻi Conservation Alliance Outstanding Leadership Aw				
9:15 - 10:15AM	Opening Session: Keynote address from Nainoa Thompson, 316			
10:15 - 10:30AM	Break			
10:30 - 12:00PM	CONCURRENT SESSION 1			
12:00 - 1:00PM	Lunch			
1:00 - 3:00PM	CONCURRENT SESSION 2			
3:00 - 3:15РМ	Break			
3:15 - 5:15РМ	CONCURRENT SESSION 3			
5:30 - 7:30РМ	Poster Session and Reception, 311			

Wednesday, July 19th, 2017

8:30 - 9:00AM	Opening Protocol and Welcome, 316 B/C					
9:00 - 9:45AM	Keynote: Ruud Kleinpaste, 316 B/C					
9:45 - 10:15AM	Hawai'i Conservation Alliance Conservation Innovation Award, 316 B/C					
10:15 - 10:30AM	Break					
10:30 - 12:00PM	CONCURRENT SESSION 4	CONSEDVATION				

12:00 - 1:00PM Lunch 1:00 - 3:00PM CONCURRENT SESSION 5

3:00 - 3:15PM Break

3:15 - 5:15PM **CONCURRENT SESSION 6**

CONNECTIONS **PUBLIC AFTERNOON** 1:00 to 5:30PM

All conference events open to the public.

Thursday, July 20th, 2017

8:30 - 9:00AM 9:00 - 10:00AM	Opening Protocol and Welcome, <i>316 B/C</i> Plenary Panel: Hawaiʻi Commitments: Inspiring Conservation at Home and Around the World, <i>316 B/C</i>
10:00 - 10:20AM	Hawaiʻi Conservation Alliance Distinguished Service Award, 316 B/C
10:20 - 10:45AM	Hawaiʻi Conservation Alliance Legacy Award, 316 B/C
10:45 - 11:00AM	Break
11:00 - 12:00PM	CONCURRENT SESSION 7
12:00 - 1:00PM	Lunch
1:00 - 3:00PM	CONCURRENT SESSION 8
3:15 - 4:45PM	Student Presentation Awards & Closing Pau Hana Reception, 3rd floor concourse
5:00PM	Closing Protocol, 3rd floor concourse

TUESDAY July 18th 2017

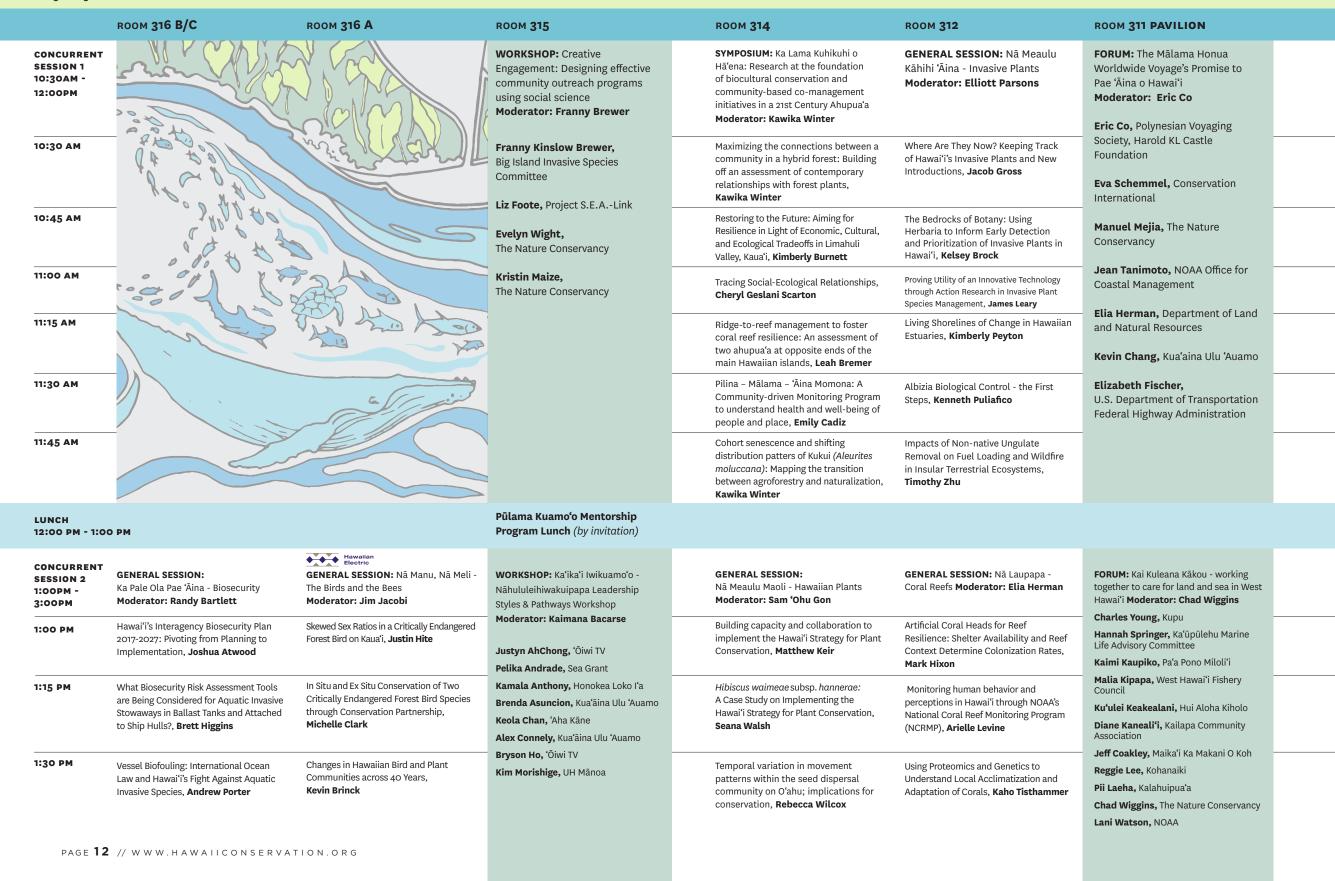
8:00 - 8:45am >> Opening Protocol, 3RD FLOOR CONCOURSE

8:45 - 9:00am >> Welcome and Opening Remarks, 316

9:00 - 9:15am >> Hawai'i Conservation Alliance Outstanding Leadership Award, 316

9:15 - 10:15am >> Opening Keynote: Nainoa Thompson, 316

10:15 - 10:30am >> BREAK



THESDAY

IUCSDAT July 18 th 2017 (continued)							
	поом 316 B/C	поом 316 A	ROOM 315	ROOM 314	ROOM 312	ROOM 311 PAVILION	
1:45 PM	E-manifesting and Inspection Facilities: Increasing Efficiency Through Risk- Based Inspections, Jonathan Ho	Securing the Future: How We Founded Conservation Breeding Populations of Two Critically Endangered Endemic Passerines from Kauaʻi, Lisa Crampton	WORKSHOP: Kaʻikaʻi Iwikuamoʻo - Nāhululeihiwakuipapa Leadership Styles & Pathways Workshop (CONTINUED)	Rates and Patterns of Natural Regeneration of Dryland Forest Species in Kaʻūpūlehu Forest Preserve, Reko Libby	Appropriate Spatial Scales to Survey Coral Reefs for Conservation and Management, Robert Schroeder, Gerry Davis	SYMPOSIUM: Clean Water for Reefs Puakō: A Collaborative, Community-Based Effort to Address Wastewater Pollution on Hawaiʻi Island Moderator: Erica Perez	
2:00 PM	Researching the Efficacy and Efficiency of a Low-cost and Lay-tech, Small Unmanned Aerial System for Detecting Multiple Invasive Species Targets, Timo Sullivan	Movement and Sexual Dimorphism of the Endangered Hawaiian Coot (Fulica alai) on Oʻahu, Randi Riggs	Noʻeau Peralta, Hui Mālama i ke Ala ʻŪlili Mikiʻala Pescaia, Kalaupapa National Historical Park Mana Purdy, Queen Liliʻuokalani Trust	Impacts of Introduced Leaf-Galling Insects on Reproduction and Seedling Survival of <i>Myoporum sandwicense</i> , a Native Hawaiian Tree, Corie Yanger	Resilience and Recovery of Mounding Porites Species Following the 2015 Bleaching Event on Leeward Maui, HI, Maurizio Martinelli	Harnessing a Multi-tracer Approach to Map Non-Point Source Sewage Pollution and its Impacts on South Kohala Reefs, Courtney Couch	
2:15 PM	Integrating global and regional species distribution models to improve biosecurity and invasive species management in Hawaiʻi, Lauren Kaiser	The Spatial Distribution of Wēkiu Bugs (Nysius wekiuicola) Within a Cinder Cone on Maunakea Volcano, Hawai'i, Jessica Kirkpatrick		Plant conservation from a microbial perspective: Foliar microbiome transplants confer disease resistance and survival to a critically-endangered Hawaiian endemic, Anthony Amend	2015 Coral Bleaching Event on the Coral Reefs of Kaloko-Honokōhau National Historical Park in Hawaiʻi, Sheila McKenna	What does success look like? Developing a monitoring plan for wastewater upgrades at Puakō, South Kohala using the open standards, Chad Wiggins	
2:30 PM	Responding Hard and Fast On Soft Money, Or, How Stable Relationships Killed the Drama and 10,000 Invasive Plants, Springer Kaye	Battles Over Bats and Birds: Links Between Litigation, Legislators, and Community Engagement, Maxx Phillips, Senator Gil Riviere			Monitoring Individual Coral Colonies through Repeated Bleaching Events at Molokini and Olowalu, Maui, Darla White	Understanding Sustainable Capacity Development and Roles and Responsibility of Advanced Wastewater Treatment Systems at Rural Community Level, Mahana Gomes	
2:45 PM	Steps to control mosquito-vectored avian diseases in Hawaiʻi, Jolene Sutton				Effects of the 2015 Mass Coral Bleaching Event on the Reefs of West Hawai'I, Dwayne Minton	Clean Water for Reefs Puakō: A Case-Study Using a Multi-Disciplinary Approach in Guiding Community Decision Making Through a Collaborative Network, Erica Perez	
BREAK >> 3:00) - 3:15РМ						
CONCURRENT SESSION 3 3:15 - 5:15PM	Hawaiʻi Framework and Bio-cultural Curriculum for Transforming	GENERAL SESSION: Kō Uka, Kō Kai - Ridge to Reef Moderator: Jean Tanimoto	FORUM: What's Your Punchline? How to Make Your Message Resonate with Different Audiences	GENERAL SESSION: Nā Pono Hana - Conservation Tools Moderator: Jim Jacobi	TRAINING: Water Quality Monitoring 101 Training: Citizen Science + Quality Assurance = Actionable Data that		
3:15 PM	Conservationists and Conservation in Hawai'i Moderator: Kekuhi K.K. Kealiikanakaoleohaililani	Integrated Landscape Indicators to Evaluate the Condition Of "Ridge to Reef" Systems and Prioritize Hawaiian	Toni Parras, NOAA Papahānaumokuākea Marine	Follow the Smoke to Find the Fire: Spatially Quantifying and Categorizing Statewide Vegetation Snifts and Trends,	mproves Hawaiʻi's waters Manuel Mejia, The Nature Conservancy	30	3

Kekuhi K.K.

Training

Forestry

Forestry

Station

Kealiikanakaoleohaililani, Lonoa

Honua - Hālau 'Ōhi'a Stewardship

Christian Giardina, U.S. Forest

Service - Institute of Pacific Islands

Kainana S. Francisco, U.S. Forest

Service - Institute of Pacific Islands

Heather L. McMillen, U.S. Forest

Service - New York City Urban Field

3:30 PM

3:45 PM

4:00 PM

4:15 PM

4:30 PM

4:45 PM

Watersheds for Restoration, Erik Franklin

Mapping supply and demand of coral r eef ecosystem services to inform a spatial approach to management,

Mary Donovan

HIReefSim: a novel modeling tool for ridge-to-reef management of Hawai'i's watersheds, Lindsay Veazey

Defining Social and Ecological Interactions in West Hawai'i Using Participatory Conceptual Ecosystem Modeling, Rebecca Ingram

He'eia NERRS: A Partnership to Study the Outcome of Large Scale Restoration of a Watershed to Traditional Hawaiian Ahupua'a Management, Robert Toonen

Building Capacity of American Samoan Communities to Manage Stormwater, Sabrina Woofter

Crabbing and Connectivity: Science for Sustainability, Kaleonani Hurley

Papahānaumokuākea Marine National Monument

Kainoa Kaulukukui-Narikawa, NOAA Papahānaumokuākea Marine National Monument

Amy Olliffe, U.S. Fish and Wildlife Service

Matthew Lucas, Clay Trauernicht

Forecasting climate and land use/cover change impacts on freshwater ecosystem services in Maui through integration of hydrological and participatory models, Hla Htun

A Data Driven Approach To Measuring Conservation Impact With Web and Mobile Tools, Sam Aruch

A Multi-Sensor Approach to Vegetation Mapping and Monitoring in a Hawaiian Mesic Forest, Will Weaver

Mug Shots: Using Photo Matching Software to Keep Track of Hawai'i's Imperiled Tree Snails, **Jenny Prior**

Traditional Management of Marine Protected Areas of American Samoa, Maria Mauga Vaofanua, Christina Mataafa Samau

Mapping Human Impacts to Coral Reefs with Unmanned Aerial Vehicles, Robert O'Connor

Conservancy

Kim Falinski, The Nature Conservancy

Tova Callender, West Maui Ridge to Reef Initiative

Alana Yurkanin, The Nature Conservancy

Stuart Coleman, Surfrider Foundation

Erica Perez, CORAL

LorMona Meredith, Promise to Pae 'Āina (Polynesian Voyaging Society)

Emma Anders, Hawai'i Conservation Alliance

Kalisi Mausio, NOAA Office for Coastal Management



WEDNESDAY July 19th 2017

8:30 - 9:00am >> Opening Protocol and Welcome, 316 B/C

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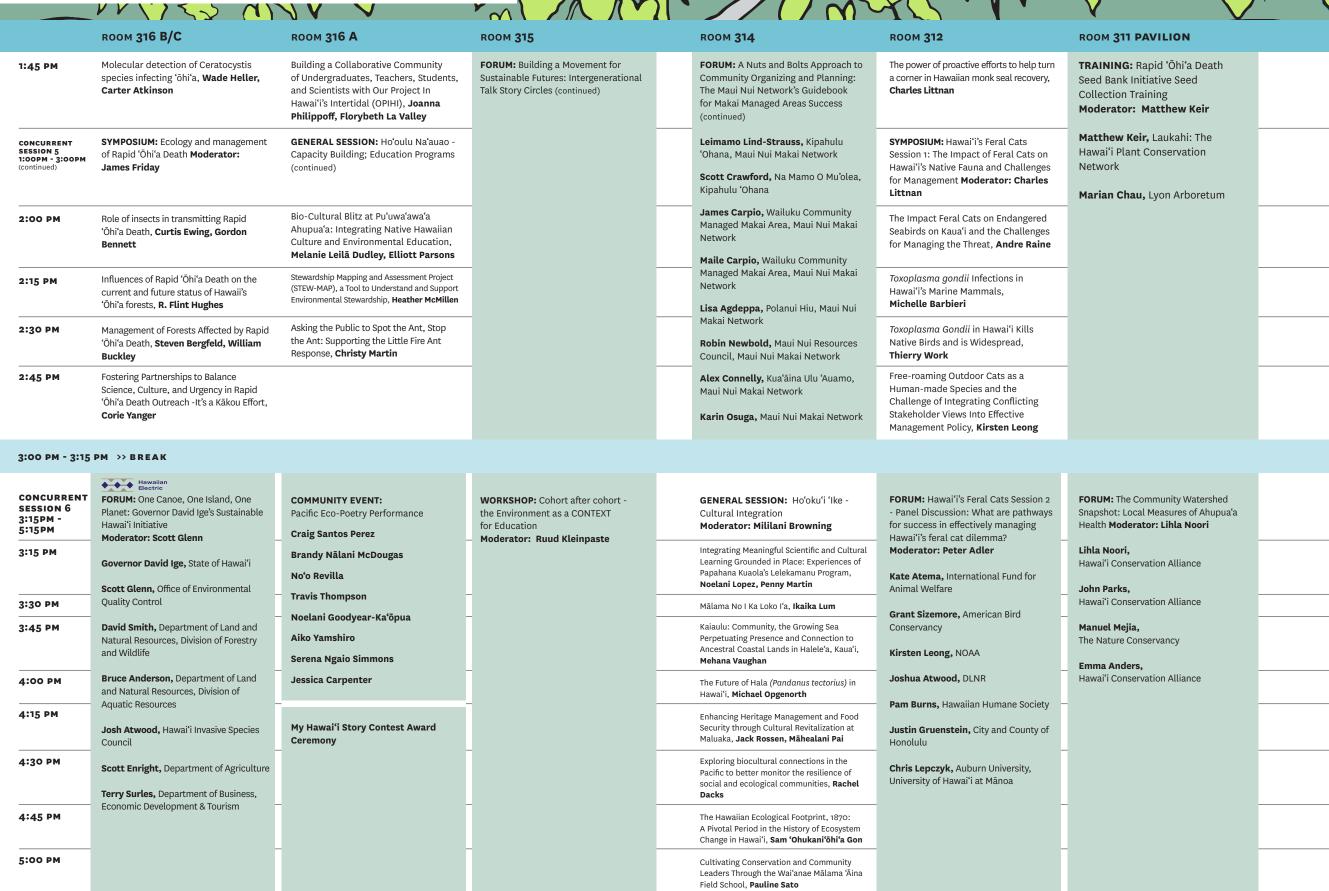
9:00 - 9:45am >> KEYNOTE: Ruud Kleinpaste, 316 B/C

9:45 - 10:15am >> Hawai'i Conservation Alliance Conservation Innovation Award, 316 B/C

10:15 - 10:30am >> BREAK

	ROOM 316 B/C	ROOM 316 A	ROOM 315	ROOM 314	ROOM 312	ROOM 311 PAVILION	
CONCURRENT SESSION 4 10:30AM - 12:00PM	FORUM: Papahānaumokuākea: Large-Scale Progression of Co-Management and Cultural	GENERAL SESSION: Hoʻōla Kaiaola - Managing and Restoring Unique Ecosystems Moderator: Elliot Parsons	FORUM: Collaboration across worldviews: utilizing knowledge coproduction on Hawaiʻi Island	GENERAL SESSION: Nā Pōʻino Kai- Impacts to Marine Environments Moderator: Eva Schemmel	GENERAL SESSION: Kāhuli Aniau - Climate Change Moderator: Wendy Miles	TRAINING: Rapid 'Ōhi'a Death Seed Bank Initiative Seed Collection Training	
10:30 AM	Integration Moderators: Kalani Quiocho, Brad Kaʻaleleo Wong Kalani Quiocho, NOAA	Successes and Challenges of Restoring the Landscape of Hawaiʻi's largest Ahupuaʻa, Kahuku, Sierra McDaniel	to thrive through change Moderators: Sharon Ziegler-Chong, Becky Ostertag, Steven Colbert	Working together to understand, quantify and manage for tipping points on the reefs of Hawai'i, Kimberly Selkoe	The Potential of Biodiverse Native Hawaiian Agroecosystems for Food Production Under Climate Change, Natalie Kurashima	Moderator: Matthew Keir Matthew Keir, Laukahi: The Hawai'i Plant Conservation Network	
10:45 AM	Papahānaumokuākea Marine National Monument Athline Clark, NOAA Papahānaumokuākea Marine National	The Restoration and Protection of Kahoʻolawe's Ecosystem, Paul Higashino	Scott Laursen, University of Hawaiʻi at Hilo Kamala Anthony,	Population Threats to Hawaiian Hawksbill Sea Turtles Revealed from Three Decades of Strandings, Shandell Brunson	Integrating Climate Projections into a Population Model for the Hawaiian Green Turtle, Summer Martin	Marian Chau, Lyon Arboretum	
11:00 AM	Monument Matthew Brown, U.S. Fish and Wildlife Service	Pooling together a comprehensive inventory of Hawaiian anchialine pools, Troy Sakihara	University of Hawaiʻi at Hilo Cherie Kauahi, University of Hawaiʻi at Hilo	Uncovering the Hidden Blue Economy in Coral Reef Fisheries, Shanna Grafeld	Nowhere to Go: Perceived Barriers to the Use of Assisted Colonization for Climate Sensitive Species, Shannon Noelle Rivera		
11:15 AM	Keola Lindsey, Office of Hawaiian Affairs Brad Ka'aleleo Wong, Office of Hawaiian Affairs	Facilitation or Competition? The Role of the N-fixing Acacia koa in Ecological Restoration, Wailea Collins	Rose Hart, University of Hawaiʻi at Hilo Joanna Norton, University of Hawaiʻi at Hilo	Mesopredator release: Moray eels inconspicuously predominate heavily fished reefs, Julie Zill	Daily to seasonal plant growth responses to environmental variability in Hawai'i: implications to management under shifting conditions, Lucas Fortini		
11:30 AM	Kekuewa Kikiloi, University of Hawai'i at Mānoa, Hawai'inuiakea School of Hawaiian Knowledge, Native Hawaiian Cultural Working Group William J. 'Aila Jr., Native Hawaiian	Metabarcoding as a Tool for Exploring the Diet of Herbivorous Reef Fishes and Providing Data for Management in Hawai'i, Eileen Nalley	Louise Economy, University of Hawaiʻi at Hilo		Considering species distribution and life history traits to determine the vulnerability of native Hawaiian plants to climate change, Lucas Fortini, Kevin Brinck		
11:45 AM	Cultural Working Group, Fisherman						
LUNCH 12:00 PM - 1:0	ОРМ				LUNCH SESSION: Overview of Present and Planned Hawai'i Coral Nurseries and Restoration Efforts in Hawai'i, Paulo Maurin, Matt Perry, Dave Gulko, Anne Rosinski, Zac Forman	LUNCH SESSION: Ask Questions and Get Answers About Rapid 'Ōhi'a Death (ROD)	
	CONSERVATION CONNEC	TIONS PUBLIC AFTERNOOM	4				
CONCURRENT SESSION 5 1:00 - 3:00PM	SYMPOSIUM: Pathology, Genetics, and Biology of Rapid 'Ōhi'a Death Moderator: James Friday	GENERAL SESSION: Hoʻoulu Naʻauao - Capacity Building; Education Programs Moderator: Brandi Kiana-Jo	FORUM: Building a Movement for Sustainable Futures: Intergenerational Talk Story Circles Moderator: Elizabeth Fujii	FORUM: A Nuts and Bolts Approach to Community Organizing and Planning: The Maui Nui Network's Guidebook for Makai Managed Areas Success Moderator: Manuel Mejia	SYMPOSIUM: Turning a corner in Hawaiian monk seal recovery: building on conservation successes to overcome remaining challenges Moderator: Stacie Robinson	FORUM: Seeing Beyond the Horizon: Emergent Trends and Innovation in Mālama 'Āina Moderator: Mehanaokala Hind	
1:00 PM	Introduction and overview of Rapid 'Ōhi'a Death, James Friday	Nā Waʻa Mauō Canoe sustainability The application of Hawaiian canoes, in marine resource management, research, and education in the Hawaiʻi, Hokuokahalelani Pihana		Manuel Mejia, The Nature Conservancy, Maui Nui Makai Network Emily Fielding, The Nature Conservancy, Maui Nui Makai Network	Monk seals and their ecosystems - what factors drive their population dynamics?, Mariska Weijerman	Reoni Kuoha, Papahana Kuaola Pauline Sato, Mālama Learning Center	
1:15 PM	Two New Pathogenic Fungi as the Cause of Rapid 'Ōhi'a Death, Lisa Keith	The Teaching Change Program – Outdoor, Immersive, Experiential Education Opportunities for Local Students and Teachers, Catherine Spina		John Parks, Marine Management Solutions Sol Kahoohalahala, Maui Nui Makai Network, Maunalei Ahupua'a Community Managed Mauka-Makai Area	#Monkseal: Social media as a tool for science, conservation, and public relations for Hawaiian monk seals, Mark Sullivan	Keola Nakanishi, Mana Mele	
1:30 PM	Infection biology of the Ceratocystis fungi involved in Rapid 'Öhi'a Death: Growth, Morphology, and Differential Host Resistance, Marc Hughes, Blaine Luiz	Kamakakūokalani - Mālama ʿĀina and Mālama Honua academic pathways, Noelani Puniwai		Edwin Ekolu Lindsey, Polanui Hiu, Maui Nui Makai Network Claudia Kalaola, Na Mamo O Mu'olea, Maui Nui Makai Network	Prevalence of interactions between Hawaiian monk seals and nearshore fisheries in the main Hawaiian Islands, Tracy Mercer		

WEDNESDAY July 19th 2017 (continued)



THURSDAY July 20th 2017

Philipp LaHaela Walter, DLNR Division of Forestry and Wildlife

Darrell Fox, Hawaiian Legacy Hardwoods

Mark Fox, The Nature Conservancy

8:30 - 9:00am >> Opening Protocol and Welcome, 316 B/C

9:00 - 10:00am >> PLENARY PANEL: Hawai'i Commitments: Inspiring Conservation at Home and Around the World, 316 B/C

10:00 - 10:20am >> Hawai'i Conservation Alliance Distinguished Service Award, 316 B/C

	m >> Hawaiʻi Conservation Alliance Dis m >> Hawaiʻi Conservation Alliance Leg n >> BREAK								
	поом 316 B/C	ROOM 316 A	ROOM 315	ROOM 314	ROOM 312	ROOM 311 PAVILION			
CONCURRENT SESSION 7 11:00AM - 12:00PM	FORUM: IUCN World Conservation Congress Legacy: Lasting Outcomes & Next Steps for Hawai'i	SYMPOSIUM: Remote Sensing for Detection and Mapping of Rapid 'Ōhi'a Moderator: Robert Hauff	FORUM: Conservation Matchmaker: Bridging Minds, Resources and Needs to Enhance	30	SYMPOSIUM: Emerging Issues in Hawaiian Hydrology and Ecology Moderator: Yin-Phan Tsang	FORUM: Lawaiʻa Pono: Implementing intergenerational observation & placebased solutions. The Moʻomomi vision,			
11:00 AM	Celeste Connors, Hawai'i Green Growth, IUCN National Legacy Committee	Monitoring and predicting spatial patterns of Ceratocystis fimbriata across the Hawaiian landscape, Lucas Fortini	Youth Engagement and Program Capacity Moderator: Liana Murillo	0.00	Establishment and maintenance of instream flow standards for the State of Hawai'i, Ayron Strauch	community co-managed marine areas and fostering monitoring practices Moderator: Kawika Winter Mac Poepoe, Hui Mālama o Moʻomomi			
11:15 AM	Janis Reischmann, Hauʻoli Mau Loa Foundation Neil Hannahs, Hoʻokele Strategies, IUCN National Legacy Committee	Application of Very High-resolution Pictometry Imagery to Assessing Rapid 'Ōhi'a Death (ROD) in Hawai'i, Jim Jacobi	Liana Murillo, NOAA Julia Meurice, Lynker Technologies The Future of Water Budget Components under Climate Change for Selected Watersheds of O'ahu Island, Hawai'i, Olkeba Tolessa Leta Na Wai 'Ekolu: Stream outreach education activities in the Ala Wai and Honolulu Watersheds, Cory Yap (Molol Hanna Life Ac Hawai Na Wai 'Ekolu: Stream outreach education activities in the Ala Wai and Honolulu Watersheds, Cory Yap	Liana Murillo, NOAA Julia Meurice, Lynker Technologies The Future of Water Budget Components under Climate Change for Selected Watersheds of O'ahu Island, Hawai'i, Olkeba Tolessa Leta Na Wai 'Ekolu: Stream outreach education activities in the Ala Wai and Honolulu Watersheds, Cory Yap Noloka'i) Hannah Spring Life Advisory CC Hawai'i Island) Presley Wann, Makana (Kaua'i) Noelani Lee, Kanai'i Moloka'i) Shaelene Kamai'i Künono & Kahaii		natural flow regime of Hawaiʻi's	(Molokaʻi) Hannah Springer, Kaʻūpūlehu Marine Life Advisory Committee (North Kona,		
11:30 AM	Chipper Wichman, National Tropical Botanical Garden, IUCN National Host Committee	Mapping the progression of Rapid 'Ōhi'a Death via small unmanned aerial systems, Ryan Perroy			Lynker Technologies	Lynker Technologies	7 200	Components under Climate Change for Selected Watersheds of Oʻahu Island,	Presley Wann, Hui Makaʻāinana o Makana (Kauaʻi)
11:45 AM	John DeFries, Native Sun Business Group, Inc., IUCN National Host Committee	Detecting and Mapping Rapid 'Ōhi'a Death Early and Cost-Effectively – DLNR's Aerial Survey Program Using Digital Mobile Sketch Mapping, Philipp LaHaela Walter				Moelani Lee, Ka Honua Momona (Molokaʻi) Shaelene Kamakaʻala, Hoʻāla ʻĀina Kūpono & Kahana Kilo Kai (Oʻahu)			
LUNCH 12:00 F	PM - 1:00PM		LUNCH SESSION: To Restore a Mosquito-Free Hawai'i, Kenneth Kaneshiro, Cynthia King, Chris Farmer						
CONCURRENT SESSION 8 1:00PM - 3:00PM	Hawaiʻi IUCN Members: Talk Story for All Current and Any Curious Prospective Members - Why and How To Get Involved in the IUCN 'Ohana	GENERAL SESSION: Nā Meahulu 'Ae'a - Invasive Animals Moderator: Craig Clark	FORUM: Environmental Storytelling in the 21 st Century: Communicating in a changing social, ecological, and technological landscape	SYMPOSIUM: Progress in the West Hawai'i Habitat Focus Area Partnership: Science, Restoration, Conservation and Community Action Moderator: Lani Watson	FORUM: Linking Indigenous Knowledge and Sovereignty, Emerging Technologies and Conservation Challenges Moderator: Ku Kahakalau				
1:00 PM		Evaluating the Airsoft Electric Gun for Control of Invasive Reptiles: Ballistic Tests and Impact on Brown Treesnakes, Adam Knox	Kauwila Hanchett, Na Puʻuwai Native Hawaiian Rural Health Center, Ka Honua Momona	The Whole is Greater: Unlocking the Collective Conservation Capacity of West Hawaiʻi, Lani Watson, Chad Wiggins	Ku Kahakalau, University of Hawaiʻi Mānoa				
1:15 PM		Nonnative Ungulate Removal, Jed Sparks Ehulani Kane, Na Pu'uwai Native Sources of nearshore sediment pollution in West Hawai'i, Corina Cerovski-Darriau	Jeff Orig, Orig Media Ehulani Kane, Na Pu'uwai Native	Jeff Orig, Orig Media Ehulani Kane, Na Pu'uwai Native	Ehulani Kane, Na Pu'uwai Native	Jaydee Hanson, International Center for Technology Assessment Narrissa Spies, University of California			
1:30 PM		Predator Control in The Nature Conservancy's Waikamoi Preserve, Laura Berthold	Hawaiian Rural Health Center, Ka Honua Momona Peggy Foreman, Pacific Islands Climate	Relative Resilience Potential and Climate Vulnerability of Coral Reefs Along the West Coast of Hawaiʻi Island, Jeffery Maynard	Dana Perls, Union Institute & University				
1:45 PM		Research and development track toward a toxic bait for management of invasive small Indian mongooses: current work and future needs, Cynthia Payne	Change Cooperative Wendy Miles, Pacific Islands Climate Change Cooperative	Fishpond Restoration in WestFishpond Restoration in West Hawai'i: Connecting Conservation, Community and Culture: Connecting Conservation, Community and Culture, Barbara Seidel		STAR PARTY			
2:00 PM		Assessment of a Hand-Broadcast Rodenticide Bait Trial to Control Rats in the Waianae Mountains, Oʻahu, Tyler Bogardus		Pono Fishing: Sharing messages of sustainable and traditional fishing practices from West Hawai'i, Kuʻulei Keakealani	FORUM: Looking to the Horizon for Hawai'i Carbon Capture Markets: An Overview of Seed Efforts and Exploration of Promising Paths Forward				
2:15 PM		Laboratory testing of a non-toxic reproductive inhibitor for non-lethal suppression of rat populations, Israel Leinbach		Sea-Level Rise Modeling as a Catalyst for Effective Ecological Management in West Hawai'i, Chad Wiggins	Moderator: Aarin Gross Aarin Gross, Conservation International Celeste Connors, Hawai'i Green Growth	To the soll			

3:00 - 3:15PM 3:15 - 4:45PM

BREAK

What We Know And What We Need To Know

engeli) in Hawaiian Estuaries, **Eva Schemmel** Humans and Wildlife in the Same Canoe: Science-

guided Resolutions to Human-Wildlife Conflicts on Invaded Pacific Islands, Shane Siers

About The Invasive Mullet, Kanda (Mugil

5:00PM

2:30 PM

2:45 PM

STUDENT PRESENTATION AWARDS & CLOSING PAU HANA RECEPTION, 3RD FLOOR CONCOURSE

CLOSING PROTOCOL, 3RD FLOOR CONCOURSE

Poster Session



Poster Session and Reception: Tuesday, July 18th, 2017 5:30 - 7:30pm, Room 311

Posters are listed by group number and monitor number. For example, P2-11 is Group 2 (6:00-6:30pm) & Monitor 11

POSTER GROUP 1 (P1-1 TO P1-20), 5:30 - 6:00PM

- P1-1 Fishing Among Sea Turtles: Best-Practice Suggestions for Recreational Shore-based Fishermen in Hawai'i, Irene Kelly
- P1-2 Progress in reducing seabird interactions in the Hawai'i longline fisheries, Sarah Ellgen
- P1-3 Seed Dispersal in a Novel Hawaiian Ecosystem:
 Can Mutualisms between Exotic Birds and
 Endemic Ornithochorous Plants be Cultivated?
 Sean MacDonald
- **P1-4** Risky Business: Male Aggression and Female Choice in the Hawaiian Monk Seal, **Thea Johanos**
- P1-5 What is Lurking in O'ahu, HI Harbors: Marine Bioinvasions in the 21st Century, Justin Goggins
- P1-6 Determining the Effectiveness of Watershed
 Management Activities to Reduce Land-Based
 Sources of Pollution on West Maui, Bernardo
 Vargas-Angel
- P1-7 Effective ex situ Conservation of Hawaiʻi's Rare
 Plants with Micropropagation at Lyon Arboretum,
 Matthew Keir
- P1-8 The Conservation of *Polyscias bisattenuata* (Araliaceae), a Rare Critically Endangered PEP Species Endemic to Eastern Kauaʻi Island, Randy Umetsu
- P1-9 Breeding System of the Kauaʻi Endemic Hibiscus waimeαe subsp. waimeαe (Malvaceae), Blanca Begert, Seana Walsh
- P1-10 Halapepe in Trouble: The Decline of

 Chrysodracon hawaiiensis at Pu'uwa'awa'a, and
 Potential Recovery Actions, Elliott Parsons,
 Edith Adkins
- P1-11 Impact of Marine Debris Entanglements on Hawaiian Monk Seals, John Henderson
- P1-12 Pollination and Breeding System of the Endangered Hawaiian Tree Hibiscus wαimeαe subsp. hαnnerαe (Malvaceae), Susan Deans, Seana Walsh
- P1-13 CCA and Fleshy Algal Cover as an Indicator of Reef Recovery, Christina Jayne

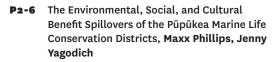
- P1-14 Japanese Tsunami Marine Debris: an Aquatic Invasive Species Perspective, Brian Neilson
- P1-15 Human Interventions to Enhance Hawaiian

 Monk Seal Pup Survival at French Frigate Shoals,

 Brenda Becker, Charles Littnan
- P1-16 Looking Out for the Little Guys: a New Captive Rearing Program for Native Invertebrates, William Haines
- P1-17 Pollen Desiccation Tolerance of two Kaua'i Single Island Endemic *Hibiscus* Taxa: Implications for ex situ Pollen Conservation, Seana Walsh
- P1-18 Emerging In-Water Hull Cleaning Technologies and Policies can Significantly Reduce the Biosecurity Risks Associated with In-Water Hull Husbandry, Julie Kuo
- P1-19 Ke Kai Ola: the Role of Rehabilitation in Hawaiian Monk Seal Recovery, Shawn Johnson
- P1-20 Distribution of Pueo or Hawaiian Short-eared
 Owl: Utilizing Citizen Science to Aid Monitoring
 Surveys, Javier Cotin

POSTER GROUP 2 (P2-1 TO P2-20), 6:00 - 6:30PM

- **P2-1** Auwahi Wind Predator Control Program: Saving Kahikinui's Last Hawaiian Petrels, **George Akau**
- P2-2 Is an Increase in the Number of Flooding Events
 Impacting Nesting Success in the Endangered
 Hawaiian Stilt (Himantopus mexicanus
 knudseni)? Kristen Harmon
- P2-3 Community Based Efforts to Promote Native Species Regeneration in a Heavily Invaded Hawaiian Mesic Forest Ecosystem, Kyle Aukai, Miles Thomas, Shaun Wriston, Mia Melamed, Juli Burden, Nicolas Bly, Wendy Kuntz, Mike Ross, Jason Misaki
- P2-4 Laulima: Community Partnership in Mapping Invasive Algae Along Molokaʻi's Southern Shoreline, Kendall Tejchma
- P2-5 Persistence of a small population of the endangered Orangeblack Hawaiian damselfly (Megalagrion xanthomelas) at Kaloko-Honokōhau National Historical Park,
 Robert Peck



- P2-7 Rodent Trapping Drives Down Invasive Rat
 Populations in Key Endangered Bird Habitat on
 Kaua'i. Maria Costantini
- P2-8 Long-term history of vehicle collisions on the endangered Nēnē (*Branta sandvicensis*),

 Christopher Lepczyk
- P2-9 Collaborative and Integrative Management of Invasive and Rare Species on UH Managed Lands of Maunakea, Darcy Yogi
- P2-10 Using Remote Cameras to Augment Hawaiian Monk Seal Survey Data From Hard-to-Reach Islands, Johann Becker
- P2-11 Assessing Public Awareness of Rapid 'Ōhi'a Death for Outreach and Education Needs, Erin Bishop
- P2-12 Cultivating Capacity through 'Ike Hawai'i, Rae DeCoito, Hannah Kaumakamānōkalanipō Anae
- P2-13 Invasive Species Removal at 'Uko'a Pond, Jacob Dutton
- P2-14 Wireless Watershed: Internet Protocol Based Video Monitoring Network in Remote Montane Forest on the Island of Kaua'i, Hawai'i, Lucas Behnke
- P2-15 Plant Pono, a Proactive Approach to Combatting
 Invasive Horticultural Species, Molly Murphy
- P2-16 Seed Storage and Germination Condition for Flueggeα Neowαwrαeα (Phyllanthaceae) to Promote Seed Longevity and Increased Germination, Christina Sloss, Dustin Wolkis
- P2-17 Conservation Breeding and Reintroduction of the 'Alalā (Corvus hawaiiensis): 2017 update,
 Bryce Masuda
- **P2-18** Biocontrol of Weeds Releases Current and Pending, **M. Tracy Johnson**
- **P2-19** Impacts of Alien Freshwater Turtles on Native Hawaiian Wetland Birds, **Aaron Works**



P2-20 Preliminary Results from an In-Situ Coral Nursery in Hawai'i: Can Corals of Opportunity be used as a Restoration Tool? Anne Rosinski

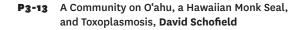
POSTER GROUP 3 (P3-1 TO P3-20), 6:30 - 7:00PM

- P3-1 Mālama na Honu Educational Outreach and Public Management in Hawai'i, Irene Kelly
- P3-2 Herbivore Biocontrol and Manual Removal Successfully Reduce Invasive Macroalgae on Coral Reefs, Brian Neilson
- P3-3 Hand-Pollination of Critically Endangered
 Schiedeα hαleαkαlensis at Haleakalā National
 Park, Monica Lomahukluh, Michelle Osgood
- P3-4 Composition of Native Forest Birds Captured
 On East Maui, Laura Berthold, Chris Warren
- P3-5 Response of Hawaiian Coral to Long-term
 Contact with Invasive Gorilla Ogo, Using
 Non-molecular Biomarkers, Victoria Sindorf
- **P3-6** Effects of Loss of Seed Dispersers on Rare Lobelioids: Assessment of Seed Viability in Senescing Fruits, **Michelle Akamine**
- P3-7 Banking from Scratch: How to Set up a Seed Bank for Native Hawaiian Plants, Kaili Kosaka
- P3-8 Manu-o-Kū of Diamond Head: Breeding Behavior of an Indigenous Seabird on the Kapi'olani Community College Campus, Paul Alexander Awo, Kristen Feato, Ka'iulani O'Brien, Katie Gipson
- P3-9 30 Years of Interns: Benefits to Participants and Endangered Wildlife at Haleakalā National Park, Raina Kaholoaa, Erika Kekiwi
- P3-10 Federal Pathways Program Provides Careers in Resource Management at Haleakalā National Park, Joy Tamayose, Cathleen Natividad Bailey
- P3-11 Development of a Rodent Bait with Slugrepellent Properties, Stephanie Joe, Tyler Bogardus
- P3-12 'Opihi Partnership: Reports on Collaborative
 Efforts to Monitor, Restore, and Sustainably
 Harvest Hawai'i's Intertidal Resources, Walter Pu



Poster Session

(CONTINUED)



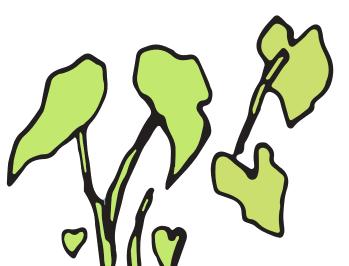
- P3-14 Abundance and breeding success of Hawaiʻi elepaio in mesic montane forest in Hawaiʻi Volcanoes National Park, Paul Banko
- P3-15 A Bottom-up Approach to Biosecurity on Kaua'i: the Pono Endorsement Program Partnership, Tiffani Keanini
- P3-16 Prioritizing Management Strategies to Alleviate
 Avian Botulism Impacts on Endangered Hawaiian
 Waterbirds on Hanalei National Wildlife Refuge
 (NWR), Kauaʻi, Hawaiʻi, Tristan Luxner
- P3-17 Prescriptions for Novel Rodent Control Devices to Protect High Elevation Endangered Species from Non-native Rats at Hawaii Volcanoes National Park, Heather Coad
- P3-18 Acoustic Variability of a Native Hawaiian Thrush in a Fragmented Landscape, Nicole Fernandez
- P3-19 Population Dynamics of Feral Pigs in a Lowland Wet Forest - Wainiha Preserve, Kauaʻi, Nicolai Barca, Lucas Behnke
- P3-20 Predator control and monitoring during Year 1 of the 'Alalā reintroduction in Pu'u Maka'ala Natural Area Reserve, Jacqueline Gaudioso-Levita, Ku'ulei Vickery

POSTER GROUP 4 (P4-1 TO P4-20), 7:00 - 7:30PM

- P4-1 Habitat Features that Influence Nest Success and Depredation of Endangered 'Alae 'Ula Nests on Hanalei and Hulē'ia National Wildlife Refuges, Bryn Webber
- P4-2 Temporal Variation in the Fish Community of He'eia Stream Mouth Estuary, O'ahu, Hawai'i, Spencer Mallette, Susan Carstenn
- P4-3 Recent Red Listing Efforts In Hawaii and Why It
 Matters, Maggie Sporck-Koehler
- P4-4 Comparing a Model Scenario to the Spread of Miconia on O'ahu, Jean Fujikawa
- P4-6 A Novel Methodology for Mapping Invasive Species Albizia (Falcataria moluccana) Using High Spatial Resolution Satellite Imagery, Qian Zhang



- P4-7 Investigating abundance and behavior of black rats (*Rattus rattus*) prior to rodenticide treatment in mesic montane Hawaiian forest, Kelly Jaenecke
- P4-8 Evaluating Population Viability and Conservation
 Options for the Endangered Puaiohi, Christopher
 Lepczyk
- P4-9 Depth is more potent at structuring reef crab assemblages than latitude, geography, or human impact across the Hawaiian Archipelago, Kaleonani Hurley
- P4-10 Ulu Lāʿau Kahiko. Natural Regeneration of
 Ancient Natives. A new chapter of rare dryland
 plant regeneration at Kaʿūpūlehu dryland forest,
 Pihanui Brawner, Reko Libby
- P4-11 Does 'A'ā Lava Field Roughness Affect Outplant Growth in the Keaukaha Military Reservation on Hawai'i Island? Bronson Palupe
- P4-12 Albizia Rust Gall Fungus the First Potential
 Biocontrol Agent for Albizia in Hawai'i, Kenneth
 Puliafico
- P4-13 Invasive Pine Management and Target Detection using Satellite Remote Sensing at Haleakalā
 National Park, Maui, Hawaiʻi, Jonathan
 Marshall, Woody Mallinson
- P4-14 Defense Against Invasive Species: Biosecurity in Papahānaumokuākea, Kristy Lapenta
- **P4-15** Groundwater Recharge from Kaua'i Watershed Alliance Managed Forests, **Stephanie Tom**
- P4-16 Transforming Middle School Science Education:
 Investigating Culturally Responsive Teaching
 Through Place Based Education, Brigitte Russo,
 Margarita Alo-Chu



Exhibitors



Advance Wildlife Education

iPosterSessions

Board of Water Supply

Center for Conservation Research & Training, University of Hawai'i at Mānoa

Conservation Council for Hawai'i

Conservation International

Coral Reef Alliance

Division of Forestry and Wildlife

Esri

Hau'oli Mau Loa Foundation

Hawaiʻi Alliance of Nonprofit Organizations (HANO)

Hawaiʻi Forest and Trail

Hawai'i Wildlife Center

Hawaiian Electric Co.

Hawaiian Islands Land Trust

Honolulu Zoo

Protect our Marine Monuments

Kamehameha Schools

Mālama Learning Center

Maui Forest Bird Recovery Project, UH Mānoa

Microsoft

National Park Service

National Tropical Botanical Garden

Natural Resource Data Solutions

NOAA - Papahānaumokuākea Marine National Monument

NOAA Fisheries

Oʻahu Army Natural Resources Program

O'ahu Invasive Species Committee

Pacific Birds Habitat Joint Venture

Pacific Rim Conservation

PCSU/Coordinating Group on Alien Pest Species

Resource Mapping Hawai'i

The Nature Conservancy

The Trust for Public Land

The Wildlife Society

U.S. Geological Survey, Pacific Island Ecosystems Research Center

UH Hilo Analytical Lab

UH Hilo Pacific Internship Programs for Exploring Science

Ulupono Foundation

Under My Umbrella

University of Hawai'i Press

U.S. Fish & Wildlife Service

U.S. Forest Service

USDA Wildlife Services

USFS Institute of Pacific Islands Forestry

HAWAI'I STATE SCIENCE AND ENGINEERING FAIR HCA AWARDEES

First Place, Senior Division:

OBSERVING THE EFFECTIVENESS OF SEVERAL PLANT COMPOUNDS ON IMPEDING THE GROWTH OF CERATOCYSTIS FIMBRIATA

Benjamin K. M. Poppas, Waiākea High School

Runner-Up, Senior Division:

PUBLIC PERCEPTIONS OF INVASIVE SPECIES SALES ON HAWAI'I ISLAND

Jamie Ebersole, Waiākea High School

Junior Division:

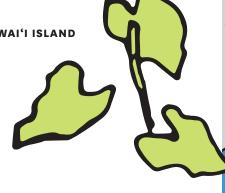
MOSS, MUD AND NATIVE KEIKI TREES

Ben May, Parker School

Junior Division:

NATIVE HAWAIIAN PLANS THAT PREVENT WATER RUNOFF

Niccolo Hayashi, Niu Valley Middle School



Мар

HAWAI'I CONVENTION CENTER

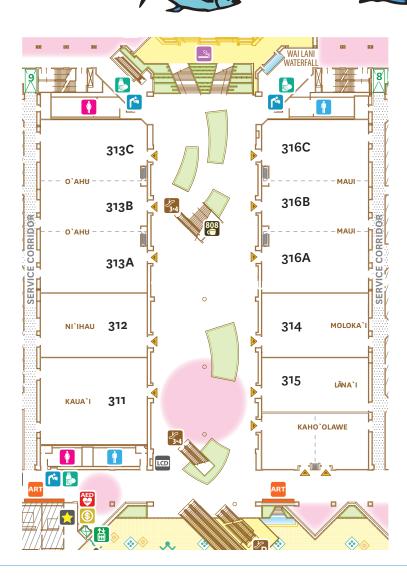
THIRD FLOOR

Exibitors >> 313 A,B,C

Registration/ Help Desk >> outside 311 & 312

Keynotes/Plenary >> **316A,B,C**

Poster Exhibit & Pavilion >> 311



HAWAI'I ALOHA

E Hawaiʻi e kuʻu one hānau e Kuʻu home kulaīwi nei ʻOli nō au i nā pono lani ou E Hawaiʻi, aloha ē

HUI:

E hauʻoli nā ʻōpio o Hawaiʻi nei ʻOli ē! ʻOli ē! Mai nā aheahe makani e pā mai nei

Mai nā aheahe makani e pā mai nei Mau ke aloha, no Hawaiʻi

E haʻi mai kou mau kini lani e Kou mau kupa aloha, e Hawaiʻi Nā mea ʻōlino kamahaʻo no luna mai E Hawaiʻi aloha ē

Nā ke Akua E mālama mai iā 'oe Kou mau kualona aloha nei Kou mau kahawai 'ōlinolino mau Kou mau māla pua nani ē O Hawaiʻi, o sands of my birth My native home I rejoice in the blessings of heaven O Hawaiʻi, aloha

CHORUS: Happy youth of Hawaiʻi Rejoice! Rejoice! Gentle breezes blow Love always for Hawaiʻi

May your divine throngs speak Your loving people, o Hawaiʻi The holy light from above O Hawaiʻi aloha

God protects you Your beloved ridges Your ever glistening streams Your beautiful gardens





- >> PLENARY PANEL: Hawai'i Commitments:
 Inspiring Conservation at Home and Around the World
 Thursday, July 20th, 9:00 10:00am, 316 B/C
- >> FORUM: IUCN World Conservation Congress Legacy:
 Lasting Outcomes & Next Steps for Hawai'i
 Thursday, July 20th, 11:00am 12:00pm, 316 B/C
- >> MEETING: Hawaiʻi IUCN Member Talk Story for all current and curious prospective members Why and how to get involved in the IUCN 'Ohana Thursday, July 20th, 1:00 – 2:00pm, 316 B/C



IUCN World Conservation Congress



Read about the IUCN Hawai'i Commitments at https://portals.iucn.org/congress/hawaii-commitments



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