



NINTH ANNUAL

Waimea

OCEAN FILM
FESTIVAL

January 1-4, 2019

Waimea, Mauna Kea Resort
+ Fairmont Orchid, Hawai'i

January 5-9, 2019

Four Seasons Resort Hualālai

Waimea
OCEAN FILM
FESTIVAL



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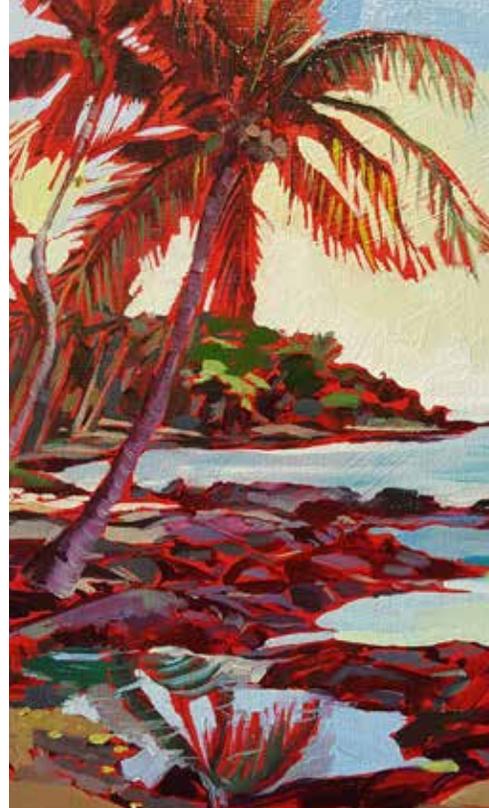
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Cover artwork ©Sophie Twigg-Smith Teururai

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The Glow. Artwork by Christian Enns

About Our Area

The Island of Hawai‘i, known as The Big Island to avoid confusion with the state, was formed by five volcanoes to become one land mass. The still active Kīlauea sits at the heart of Hawai‘i Volcanoes National Park, while Mauna Kea, Mauna Loa and Hualālai rise about the Kohala and Kona coastline, where stark lava fields meet turquoise waters and multihued sand beaches. The gentle slopes of the Kohala Mountains, now volcanically extinct, provide the backdrop to the town of Waimea and to northern Hawai and Kapa‘au.

The Kohala Coast is one of the driest regions in all of the Hawaiian Islands. It is an area rich in both Hawaiian history and sea life. Tropical fish, many of which are found nowhere else in

the world, inhabit these reefs, along with Hawaiian Hawksbill turtles, octopus, eel and smaller reef sharks. Spinner dolphins come to rest in shallow bays during the day, before returning to deeper water to hunt at night. Humpback whales can be seen along the coast during winter, when the ocean fills with the sound of their beautiful song.

The town of Waimea, also known as Kamuela, sits in the saddle between the dry and green sides of the island, nestled into the Kohala Mountains. The pastoral community is known as much for the paniolo culture the town was built around, as for the rainbows that reflect the ever-shifting weather patterns between rain, mist and sun.

About the Festival

USING THE PROGRAM

All film screenings, presentations and special events are listed by day and venue in the festival schedule. Each Breakfast Talk location is presented, along with its description, in the Breakfast Talk section of the program. Films are grouped with other films and/or speakers into film blocks, as shown in the schedule. When filmmakers will be present for discussion after the film; this is noted by "Q&A."

FESTIVAL HOSPITALITY DESK

The Festival Hospitality Desk is located in the lobby of the Kahilu Theatre during the Waimea portion of the event. This year, the Hospitality Desk will be in either foyer of the Ballroom when the festival moves to Four Seasons Resort Hualālai or nearby at outdoor Hoku Amphitheatre. Passes and programs are available for pickup at the Festival Hospitality Desk at Kahilu Theatre starting 9 am-5 pm Dec 29. Passes may be purchased at the desk, along with other items. The Festival Hospitality Desk is available to answer questions and provide additional information as the festival progresses.

FESTIVAL HOSPITALITY DESK HOURS OF OPERATION AT KAHILU THEATRE

Saturday, Dec 29: 9 am-5 pm
Sunday, Dec 30: 9 am-5 pm
Monday, Dec 31: 9 am-3 pm
Tuesday, Jan 1: 9 am-10 pm
Wednesday, Jan 2: 9 am-10 pm
Thursday, Jan 3: 9 am-10 pm
Friday, Jan 4: 9 am-6 pm

HOURS OF OPERATION AT FOUR SEASONS BALLROOM FOYER

Saturday, Jan 5: 11 am-9 pm
Sunday, Jan 6: 9 am-9 pm
Monday, Jan 7: 9 am-9 pm
Tuesday, Jan 8: 9 am -9 pm
Wednesday, Jan 9: 9 am -9 pm

THEATRE ENTRY

Remember to wear your passes. Festival volunteers will open doors for seating 15 minutes prior to each show. The theater will be cleared between screenings.

TBAS (TO BE ANNOUNCED)

A certain number of films will be screened as TBAs. The most popular films from the festival will be shown at this time, along with a few films pending at publication. TBA schedules and special screenings will be posted at the Festival Hospitality Desk starting on Wednesday, Jan 2. TBA schedules will also be posted simultaneously on-line and on Facebook. Please let our theatre volunteers know if you have a TBA request!

THE PASS SYSTEM

The pass system enables the festival to organize a dynamic event that includes films, speakers, presentations, Breakfast Talks and other activities, plus allows for rich and complex content, with one aspect woven together with the next.

While passes are the ideal way to enjoy the festival, remaining seats for films and presentations will be opened for individual ticket purchase 15 minutes prior to each show. For more information on passes, please speak with the Hospitality Desk, visit the website at www.waimeaoceanfilm.org, or contact the festival office at 808-854-6095.

Letter from the Director

Welcome to the 2019 Waimea Ocean Film Festival. This year's festival offers a dynamic lineup of award-winning films, dynamic guest speakers, special exhibits, important topics and inspiring stories.

In many ways, the festival began through the realization of what the dual-impacts of climate change and ocean acidification would mean for our children. As in 2017, through 2018, we've continued to see the start of what half of that equation—climate change—might mean.

What you would expect to see in a warming climate would be more unpredictable and unusual weather patterns; more intensive and destructive storms; more and stronger hurricanes; more extremes in conditions; more unusual conditions; more periods of flooding; more periods of drought; more periods of extreme heat; more periods of extreme cold; more fires; more wind. Ultimately, this would mean more difficulty in sustaining agricultural production and uncertainty around water cycles, along with all things that would come with disruptions in food and fresh water supply.

The perfect, steady amount of carbon dioxide (CO₂) in the atmosphere over the past 10,000 years allowed for the development of agriculture and civilization, and the resulting human population growth—from a few million individuals then, prompting the first migrations outward, to seven billion now. This perfect amount of CO₂ maintained a stable climate, with a degree of storm events and variation that was largely manageable, around which we could plan, and rely on agriculture as a basis for our subsistence, our economy and our way of life.

By disrupting this stable climate system, we are changing the predictable patterns of rainfall and climate we have relied on to grow food, for reliable sources of fresh water and for a sense of security in the places we live. The implications for the economy, let alone our lives, are profound.

To understand global warming—and resulting climate change—it is important to understand that approximately one-third of the CO₂ we release through combustion enters the atmosphere; approximately one-third is absorbed by the ocean; and approximately one-third is taken up by trees. Every molecule of CO₂, or other greenhouse gas we add to the atmosphere, re-radiates heat back to earth that would otherwise escape into space. You might envision each molecule of CO₂ as a ping-pong paddle. With more CO₂ in the atmosphere re-radiating or bouncing heat back, both earth and ocean temperatures are warming, and the climate is changing.

At the same time, the excess CO₂ being absorbed by the ocean is causing the acidity of the ocean to change at a rapid rate. Because increasing acidity dissolves the skeletal structures of organisms at the bottom of the food chain, this second threat—now known as ocean acidification—could potentially have a devastating impact on the entire ocean ecosystem; just as we start to have trouble growing food on land.

Unfortunately, at a time when we most need to be working together towards a common goal—addressing a common threat—we stand divided, polarized and manipulated from without and within. In the absence of political leadership on this



issue—with great minds in both parties working together to find balanced solutions—perhaps it will be left to those at the helm of the business world, and to states, to forge the way ahead.

Through the years, we've shown films that have given homage to the brave men and women who gave or risked their lives in defense of the nation. These are individuals who chose, and continue to choose, to step into the line of fire on our behalf. Fortunately, none of what we need to do to combat climate change requires that we make a similar choice. Everything we could do to combat climate change is positive—positive for our economy, positive for our country, positive in terms of job creation and positive in terms of what it would mean for our daily lives.

To tackle the problem quickly, it is helpful to understand that nearly one-half of the energy we consume is actually consumed by buildings. The energy requirements of a building can be reduced 70 to 80 percent simply through good design. Day-lit, well-designed buildings are more pleasant and productive places to live and work, in addition to resulting in lower energy bills. It is estimated that most buildings in the nation will need to be re-built to some degree within the next 30 years, providing opportunity for retrofit, while new buildings could be built to LEED standards.

Solar and wind production present an enormous opportunity on a global scale in meeting the remaining electricity demand, perhaps using pumped water systems as storage. Big box and other roof top space could be utilized as primary solar energy production sites, rather than open space, perhaps leased by utilities or municipalities to maintain the traditional grid. This could be done at a substantially lower cost than development of new generation plants, not to mention the efficiency inherent in this energy source; yielding cost reductions for both rate and tax payer.

In terms of job creation, windmill manufacturing plants could be built in coal-mining towns, offering good, above-ground jobs for these communities; or solar arrays built in depressed or denuded areas. Energy companies are perhaps best positioned overall to jump into the solar race early, to maximize gains.

Transportation accounts for roughly 29 percent of energy consumed, over half of which is in the shipment of goods and materials. Solving transportation issues—developing good transportation options and reducing transportation costs—requires a shift to systems thinking.

A multi-modal transportation system based around rail is the most efficient—and hence ultimately least expensive—transportation system to build and maintain. People love to walk, ride their bicycles and take the train, when nice facilities exist; communities with good transportation systems tend to be highly desirable and pleasant places to live, work and do business, as walking becomes integrated into the day to day.

While it is challenging to retrofit an urban landscape—and better to plan and build with a systems approach to start—doing so at any time saves money in the end. The same number of people can be moved in a single rail line as in eight lanes of traffic. The implications of this are important to understand—from land use and open space, to reduction in the carbon footprint incurred by the roadway system, to tax payer savings given the burden of maintaining ever-expanding roadways. Electric cars, buses,

machinery and trucks—as part of an overall system and including in-house fleets—form an important part of the overall equation.

Our founding fathers understood the importance of education at the core of a successful democracy. It is critical all Americans have access to a good education, including a solid foundation in history, science and literature. In this age of emerging tech, the importance of understanding history, like the lessons of Versailles, are more important now than perhaps ever in the past. Determining how to provide a solid education, in all corners of the nation, is another great task of our time.

Our founding fathers also understood the foundational role of a free press in a democracy. Until 1979, broadcast news was regulated as a service to the American people. It could be that we need to bring this system back, so that broadcast news again becomes a not-for-profit arm of the networks, set up solely as a service to the nation. Understanding the channels that can be established through social media—how they can be manipulated and used, and what this might mean for the country—will be important for us moving forward as well.

Regardless of differences in political beliefs, it is crucial that we come together to address the issues we face, both as they impact the ocean and as we experience them on land. The issues we face are daunting, if we admit them. The opportunities in them are exciting, boundless and without limit. To find our way through, we must both recognize the peril and work together towards solutions, while we can.

Thank you to everyone who makes the festival possible. The films, speakers, talks and exhibits throughout the festival are not-to-be-missed. Many touch on important topics, while others bring inspiration and fun. Start early, to see as much as you can. We hope you enjoy.

Mahalo,

Tania Howard
Founder and Director

Host Venues

WAIMEA Kahilu Theatre

A historic, 490-seat theatre in the center of Waimea town, Kahilu Theatre will host the Festival's Hospitality Desk and film screenings. Inquire at the Festival Hospitality Desk at Kahilu Theatre with questions.

Hawai'i Preparatory Academy (HPA) - Gates Performing Arts Center

The Gates Performing Arts Center is a 360-seat theatre, located in the heart of the upper Hawai'i Preparatory Academy (HPA) campus, about two miles west of town. HPA Gates will host film screenings and presentations.

Parker School Theatre

Originally built in 1920 on Parker Ranch as an entertainment center for ranch residents and workers, Parker Theatre has been renovated over the decades and seats 280. Still maintaining its original charm, Parker Theatre is within walking distance of Kahilu Theatre. It is suggested attendees walk between the two. Parker Theatre will host film screenings.

Anna Ranch Heritage Center

Listed on both the National and State Registers of Historic Places, the ranch was purchased in 1848 by Englishman James Fay and his Hawaiian wife Ka'ipukai, and was in the same ranching family for five generations. Visitors may tour the spectacular and expansive gardens as well as the 14-room, historic ranch house with a treasure trove of Hawaiian koa furnishings, artifacts and

fine millinery. Anna Ranch will host morning Breakfast Talks 8:15-9:15 am Jan 2-4, with coffee and light fare provided.

KOHALA COAST

Mauna Kea Beach Hotel

Breakfast Talks are scheduled at the Mauna Kea Beach Hotel 8:15-9:15 am Jan 2-4 in the Garden Room, with coffee and light fare provided. A sunrise yoga class is available to festival pass holders 7-8 am Jan 2-4 on the lawn by the lu'au grounds during this same period. Festival artist Christian Enns will paint en plein air at the beach 8-11 am Jan 2-4 and 6-8:30 pm Jan 3-4 in the lobby, where attendees can observe as Enns works on a large-scale oil painting.

Anna Ranch



The Fairmont Orchid, Hawai'i hosts film showings and presentations in its own Lehua Theater, as well as exhibits and presentations in the adjoining downstairs ballrooms.

Directions to the Fairmont Orchid, Hawai'i from Waimea:

- Drive approximately 11 miles down Kawaihae Road (Highway 19), until you reach the T-intersection on your left, where the road heads to Kona. Turn left to continue on Highway 19. You are now traveling south, parallel to the ocean on your right.
- Continue approximately seven miles, past the Mauna Kea Beach Hotel entrance, until you see the Mauna Lani Resort sign on your right before a tall coconut grove entry road.

- Turn right onto Mauna Lani Drive. Proceed past the Guard House to the traffic circle and take the first right to the Fairmont Orchid on North Kaniku Drive.
- Stay on North Kaniku Drive until you reach the main entrance to the Fairmont Orchid at the end of the drive, less than a mile. Valet and self-parking available.

FOUR SEASONS

Four Seasons Resort Hualālai will host the Festival's Hospitality Desk, film screenings and presentations Jan 5-9. Breakfast Talks are scheduled upstairs at 'Ulu Restaurant 8:45-9:45 am Jan 6-9, with coffee and pastries provided. Contact the Festival Hospitality Desk with questions.

White Rhino

Initially started as a project to share the stories behind surf photographer Brian Biemann's most memorable photos, *White Rhino* evolved into a broader story following the unfolding of a dual quest: that of the big wave surfers seeking to ride some of the largest swells yet seen in the South Pacific, including a mythical "white rhino" wave, and the photographers who position themselves to capture the action.

Brian Biemann's images have appeared on more than 150 magazine covers and were featured in over 30 books. His work has been published in a wide array of magazines, including *Rolling Stone*, *Men's Journal*, *National Geographic* and *Sports Illustrated*. Biemann's work captures the surf lifestyle and continues to push the boundaries of photography both above and below the water.

The idea for the film was born when director Brent Storm met Brian Biemann at the HIC Pro in Hale'iwa, Hawai'i on the North Short of O'ahu. Director Brent Storm notes: "What began as a passion project has led to much bigger things. This film would not have been possible if it wasn't for the support of the surf community.



Nathan Fletcher at Teahupo'o. Photo ©Brian Biemann

Originally, this film was plotted to be a short, revealing the stories behind Brian Biemann's most memorable photos. After completing the interview process, we realized there was a much bigger story to be told. As the film developed, we received more and more content through the generosity of some of the finest surf cinematographers and photographers in the industry, allowing us to tell the stories behind these memorable days in surfing."

Surfers featured in the film include Kalani Chapman, Dave Wassel, Nathan Fletcher, Bruce Irons, Mark Healey, Kohl Christensen and Herbie Fletcher. Other photographers whose work-in-action is featured include Peter 'Joli' Wilson, Ryan Foley and Erik Aeder.

The line up at Cloudbreak, Fiji. Photo ©Brian Biemann



Koa Rothman at Teahopo'o, Tahiti. Photo ©Brian Biemann



ALBATROSS

Chris Jordan (US, 97 min)

Initially a photography project—documenting the impact of plastic on albatross—the film brings to life the story of albatross on Midway Atoll, including the issue of ocean plastic. With stunning cinematography throughout, *Albatross* presents a poetic and visual narrative on these birds: beautiful, enthralling, poignant and, at times, not easy-to-watch. *Parental guidance suggested.*



THE CAMINO VOYAGE

Dónal O’Céilleachair (Ireland, 98 min)

HAWAI’I PREMIERE

For nearly a thousand years, people sailed from Ireland to Northern Spain; to walk the Camino de Santiago. When a writer, two musicians, an artist and a stonemason decide to attempt the pilgrimage again, they build a traditional boat, or “Naomhóg,” by hand and make their way on the dangerous, 1,500-mile journey, in stages, sharing music, poetry and stories along the way. *With subtitles.*



APOLLO 13: THE INSIDE STORY

Tom Whitter (UK, 50 min)

HAWAI’I PREMIERE

When an explosion tore through the skin of Apollo 13, 200,000 miles from earth, NASA mounted a dramatic inter-space rescue, relaying meticulous instructions from mission control in Houston to the astronauts on board. For the first time, the astronauts themselves, along with the people on the ground, share their experience in this story of ingenuity, level-headed thinking and problem-solving under pressure.



CHASING CORAL

Jeff Orlowski (USA, 89 min)

2018 AUDIENCE CHOICE WINNER

Coral reefs are the ocean’s nursery. As carbon emissions warm the planet and ocean temperatures rise, a phenomenon called “coral bleaching”—a sign of mass coral death—has been accelerating around the world. The bleaching has implications for the entire ocean ecosystem and landscape. A team of divers, photographers, technicians and scientists set out to document the process.



ATTENBOROUGH: BEHIND THE LENS

Anne Sommerfield (UK, 50 min)

HAWAI’I PREMIERE

In person: Anthony Geffen

In his early 80s, David Attenborough embarked on one of the most ambitious chapters of his career, collaborating on 11 pioneering and fascinating film projects—pushing the boundaries of both knowledge and film—all while maintaining his busy schedule as sought-after presenter and narrator. Using behind-the-scenes footage, the film shares a rare glimpse into both the projects, and the man.



CHASING ICE

Jeff Orlowski (USA, 76 min)

In person: James Balog

2013 AUDIENCE CHOICE WINNER

After a 2005 *National Geographic* assignment on the Earth’s changing climate, photographer James Balog returned to the Arctic to capture a multi-year record of the world’s changing glaciers using time-lapse cameras. The images compress years into seconds, capturing ancient mountains of ice in motion as they disappear at an alarming rate.



CHASING NIAGARA

Rush Sturges (USA, 77 min)

In person: Rush Sturges

A story within a story, *Chasing Niagara* provides a fascinating history of the running of Niagara Falls, in some form or another, now illegal, along with an extraordinary look at the kayaking skills of some of the world's top professional white water kayakers—Rush Sturges, Evan Garcia, Tyler Bradt and Rafa Ortiz—and their running of large waterfalls, from Mexico to the Pacific Northwest. *Parental guidance suggested.*



COLD WATER WETSUIT REVOLUTION

Matt Crocker, James Dean (UK, 4 min)

USA PREMIERE

Since the dawn of surfing on British shores, to quote the wit and words of the filmmakers, “the British natives have faced one obstacle above all—the bloody cold. To really rule the icy waves, they would need to get creative, industrious if you will.” Hence the story of Dennis Cross, a waterman with a roll of neoprene, a love of surfing and a determination to find a way.



CONQUERING THE DRAGON

Rich Heap (UK, 37 min)

USA PREMIERE

Conquering the Dragon shares the story of five participants in the Berghaus Dragon's Back Race®. The foot race follows the mountainous, spiny backbone of Wales from north to south—on a demanding, five-day course spanning 196 miles—over 50,000 feet of elevation change and wild terrain. The film tracks the race as it unfolds, revealing the runners' inspiring spirit and the stunning Welsh landscape.



CONQUEST OF THE SKIES - THE FIRST TO FLY

David Lee (UK, 50 min)

HAWAII PREMIERE

In person: Anthony Geffen

With astonishing detail, David Attenborough seeks to unravel the fascinating 300-million-year story of the evolution of flight. He begins at the beginning; with the insects. Stunning images help provide new insight, as Attenborough looks at the evolution of these early fliers.



CONQUEST OF THE SKIES - RIVALS

David Lee (UK, 50 min)

HAWAII PREMIERE

In person: Anthony Geffen

David Attenborough continues to chart the origins of flying animals and birds, turning to the flight of larger creatures: extinct reptiles that flew on wings of skin; dinosaurs that evolved feathers to become the ancestors of birds; and the gliding mammals that became bats.



CONQUEST OF THE SKIES - TRIUMPH

David Lee (UK, 50 min)

HAWAII PREMIERE

In person: Anthony Geffen

David Attenborough concludes his history of flight with a detailed look at the highly skilled and versatile birds and bats we see today. He examines the exceptionally diverse array of birds, with their keen sense of sight—from peregrine falcons to hummingbirds—to the sonar-guided precision of bats, traveling to Gomantong cave in Borneo to witness one million bats take flight at once.



THE CORONATION

Harvey Lilley (UK, 59 min)

HAWAI'I PREMIERE

In person: Anthony Geffen

Released while filmmaker Anthony Geffen attended the festival in 2018, Geffen returns to share this rare production of the coronation of the Queen of England on June 2, 1953 at Westminster Abbey, in which—for the first time—the queen recounts her memories of that day. Interviews with others involved bring to life the story behind-the-scenes, along with that of the coronation regalia.



DOLPHIN REEF

Keith Scholey (USA, 77 min)

In person: Paul Baribault

DisneyNature dives under the sea in *Dolphin Reef* to frolic with some of the planet's most engaging animals—dolphins. Echo is a young, bottlenose dolphin who just wants to play. Dolphin society is complex and Echo must learn to do his part. But with humpback whales, orcas, sea turtles and cuddfish as a distraction, Echo has a tough time resisting all the ocean has to offer.



ECLIPSE

Anthony Bonello (Canada, 31 min)

In person: Bjarne Salén

2017 WINNER BEST FILM - ADVENTURE

To realize photographer Reuben Krabbe's vision of capturing a single unique image—one of skiers in action during and in front of a solar eclipse—the Salomon Freeski TV team set out on an expedition to the Arctic. They positioned themselves to be in the right place at the right time on March, 20, 2015, not knowing until that moment whether conditions would open for the shot.



EMOCEAN

Tony Harrington (Australia, 63 min)

BIG ISLAND PREMIERE

In person: Tony Harrington

Emocean shares stories from people who have built their lives around the sea; each relate their own unique tale and sense of connection to the ocean, from adventure and inspiration to challenging loss. From Hawai'i to Tahiti, and from California to remote spots in northwest Australia, the film quietly imparts the power and mystery of the ocean, and the effect it has on those who spend their lives around it.



FAMILY OF THE WA'A

Alyssa Fedele (USA, 81 min)

2012 AUDIENCE CHOICE WINNER

Shown in honor of the upcoming voyage of Makali'i through the Northwestern Hawaiian Islands, *Family of the Wa'a* recounts the commitment Kimokeo Kapahulehua made to his uncle to paddle all 1,750 miles through the Northwestern Hawaiian Islands by outrigger paddling canoe, and the extraordinary team of people who assembled to paddle with him.



FOLLOW THROUGH

Adam Clark, Isaiah Branch-Boyle

(USA, 22 min)

Since the age of 16, Caroline Gleich has been driven by the challenge laid out in *The Chuting Gallery*, which describes a set of 90 difficult and dangerous ski mountaineering lines in Utah's Wasatch Range that few have managed to complete. In setting out, however, Gleich must not only overcome her own self-doubts, but also the negative input of random people in this social media world.



THE GAME: THE STORY OF HURLING - EPISODE ONE

Gerry Nelson (Ireland, 52 min)

USA PREMIERE

The Game explores the Irish sport of hurling, which evolved in its own unique way in Ireland, and yet shares the common human experience of a stick and ball game, developed in various shapes and forms across cultures. Through extensive research, the first episode lays the groundwork on how hurling was founded, through a difficult time, bringing hurling's story to life.



THE GAME: THE STORY OF HURLING - EPISODE TWO

Gerry Nelson (Ireland, 50 min)

USA PREMIERE

The Game continues to explore the origins of hurling from the realm of legend through its growth over the last century into one of the world's fastest field sports today. As hurling developed into a national sport, and travel became more accessible, people traveled across country to see legendary players. Emerging radio, and then television broadcasts, brought the game into every home as well.



THE GAME: THE STORY OF HURLING - EPISODE THREE

Gerry Nelson (Ireland, 55 min)

USA PREMIERE

For the true fan of sport, and of the Irish, Episode Three continues to delve further into the game, exploring the chase for perfection in modern hurling and the elevation in tactics, fitness and training. Modern hurling brings the early stick and ball game to a new, colorful level all its own; developed and perfected on this unique island, set amidst the cold, grey of the Atlantic.



GOING SOLO

Ant Hoard (South Africa, 5 min)

HAWAI'I PREMIERE

In this beautiful, short film, Andrew Kellett shares the special connection he's always felt with the Witte River, above Cape Town, and the treasured sense of solitude he's found kayaking there. He notes the added danger and reality inherent in kayaking solo, relating his own experience, along with that of bringing his son back to kayak with him, years later.



HESBURGH

Patrick Creadon (USA, 106 min)

HAWAI'I PREMIERE

Hesburgh offers a thought provoking look at more than 50 years of American history, seen through the life and achievements of the long-time president of the University of Notre Dame, the late Father Theodore Hesburgh. Advisor and friend to national and world leaders, Hesburgh was asked to help with the most challenging issues of the day. *Parental guidance suggested.*



HOME OF TRAILS

Stu Thomson (UK, 6 min)

Danny MacAskill goes to beautiful Graubünden, Switzerland and takes the Graubünden motto, "everything is rideable," to a whole new level. No summit is too high, no trail too steep, no boat too small, no table off limits. Joined by fellow mountain bike pro, Swiss Claudio Caluori, the two bring another stunning and fun mountain bike sequence to the big screen.



HOW TO RUN 100 MILES

Brendan Leonard (USA, 28 min)

HAWAII PREMIERE

In person: Jayson Sime

Inspirational speaker Jayson Sime grew up in poverty. He was bullied in school because of his dyslexia, started to fist-fight back, learned to wrestle formally instead, lost every match for two years, before finally winning his first. Sime went on to work his way, one step at a time, to a successful career as a political organizer. And, then, he ran his first ultramarathon.



INSTANT SURF

Adam Bell (UK, 5 min)

USA PREMIERE

Matt Smith has been shooting Polaroid and instant photographs for over a decade, capturing the surf and beach scenes that inspire him. Smith breathes new life into this near-forgotten form of photography, using expired film and an armory of vintage cameras he has collected and repaired over the years.



THE HUMAN ELEMENT

Mathew Testa (USA, 78 min)

HAWAII PREMIERE

In person: James Balog

Photographer James Balog, whose work in establishing the Extreme Ice Survey was documented in the film *Chasing Ice*, seeks ways to use his camera to convey the impact climate change and air quality issues are having on the lives of Americans. Balog looks at sea level rise, wildfires, asthma and hurricanes, along with recent investment in solar by coal mining executives.



IRELAND'S DEEP ATLANTIC - LEVIATHAN

Ken O'Sullivan (Ireland, 52 min)

HAWAII PREMIERE

In person: Chad Wiggins

Ken O'Sullivan hopes to find that both blue and sperm whales may once again be found off the coast of Ireland. In collaboration with researchers and scientists from around the North Atlantic, along with ocean acoustics expert Dr. Joanne O'Brien, O'Sullivan embarks to document these animals as part of an effort to confirm migration routes—an important step in their conservation.



INSIDE THE INDUS

Ciarán Heurteau (France, 27 min)

HAWAII PREMIERE

In November 2016, fresh from winning the extreme kayaking world title, Spaniard Aniol Serrasolses, New Zealander Mike Dawson and Irish filmmaker Ciarán Heurteau went to Pakistan to attempt a descent of the fabled Rondou Gorge, on the Indus River. The film shares beautiful scenery, epic whitewater and the support and assistance the kayakers receive from Pakistanis along the way.



IRELAND'S DEEP ATLANTIC - THE OPEN OCEAN

Ken O'Sullivan (Ireland, 52 min)

HAWAII PREMIERE

In person: Chad Wiggins

Underwater cameraman Ken O'Sullivan sets out on a series of voyages into the North Atlantic. O'Sullivan encounters large aggregations of sharks, films whales underwater for the first-time off Irish shores and discovers deep-water coral reefs supporting ecosystems of tens of thousands of species of animals and plants, along with spawning fish stocks and upwellings of plankton.



JUDI DENCH: MY PASSION FOR TREES

Harvey Lilley (UK, 58 min)

HAWAI'I PREMIERE

Judi Dench joins tree scientists and historians to unlock the remarkable secret lives of trees, the mechanisms behind how they work and the stories they might share. With the latest scientific techniques, and through the four seasons, she learns how they communicate, hears how they intake water and discovers how they fight off invading armies and extreme weather.



LOST LAND OF THE VOLCANO - EPISODE ONE

Jonny Keeling (UK, 60 min)

In person: Chad Wiggins

Lost Land of the Volcano follows a scientific expedition to the island of New Guinea. The expedition team, which includes specialist zoologists, explorers and the BBC Natural History Unit crew, travels to the extinct volcano of Mount Bosavi in central Papua New Guinea to document the biodiversity of this little-visited area, discovering over 40 new species.



KA HANA KAPA

Joy Chong-Stannard (USA, 57 min)

In person: Victoria Kneubuhl, Roen Hufford

Ka Hana Kapa documents the history of kapa in Hawai'i and follows the complex process of Hawaiian kapa making from start to finish. In Hawai'i, kapa, or bark cloth made from the wauke plant, was used for everything from clothing to important ceremonies, making it an integral part of everyday life. In the late 1960s and 1970s, a small group of women revived this lost art.



LOST LAND OF THE VOLCANO - EPISODE TWO

Jonny Keeling (UK, 60 min)

In person: Chad Wiggins

The team of scientists and filmmakers continue to explore the jungle wilderness of New Guinea. Adventurer and natural historian Steve Backshall leads an expedition into a cave; while wildlife cameraman Gordon Buchanan traces birds-of-paradise through their calls, filming their courtship behaviors. The enthusiasm of the team in discovering new species is catching.



LIVING IN THE FUTURE'S PAST

Susan Kucera (USA, 84 min)

HAWAI'I PREMIERE

Living in the Future's Past provides a fascinating and spell-binding discussion, through a series of compelling interviews and eye-opening imagery, into human behavior patterns and their unintended consequences for the future. The film delves into the hold peer pressure has on the individual and suggests a positive future outcome were we to reexamine our beliefs around what is possible.



LOST LAND OF THE VOLCANO - EPISODE THREE

Jonny Keeling (UK, 60 min)

In person: Chad Wiggins

Former Oxford University biologist Dr. George McGavin ventures towards Turvuvar, an active volcano, where he uncovers life in surprising places. Steve Backshall, Gordon Buchanan and biologist Kris Helgen descend into the crater of a giant, extinct volcano in Papua New Guinea, where they find a new silky cuscus, a tree kangaroo, a wallaby and a very cute, large rat.



MADE IN IRELAND

Mikey Corker (Ireland, 28 min)

HAWAII PREMIERE

On the western edge of Europe—its raw and rural coastline battered by giant storms, frigid water and huge waves—Ireland is a unique surfing spot. The harsh environment has shaped its own distinctive surf culture, which includes a group of determined surfers pushing the limits of big wave surfing—in the cold, dark water—drawing in even those from more idyllic locations.



NATURAL HISTORY MUSEUM ALIVE

Mike Davis (UK, 64 min)

HAWAII PREMIERE

In a special collaboration with experts and curators from the museum, and using groundbreaking technology, David Attenborough explores the Natural History Museum in London, after dark, when the exhibitions magically come to life. As night falls, Attenborough meets the extinct creatures that fascinate him the most: dinosaurs, Ice Age beasts and giant reptiles.



MIDWAY: EDGE OF TOMORROW

Ian Shive (USA, 40 min)

HAWAII PREMIERE

In person: Alice Garrett

Midway: Edge of Tomorrow recounts both the natural and human history of Midway Atoll, including the pivotal WWII battle with which it is identified. Overseen by the U.S. Fish & Wildlife Service, the film shares historical footage of the battle, along with portraits of the atoll's wildlife, including spinner dolphins, Laysan albatross and green sea turtles. *Parental guidance suggested.*



NORTH OF NIGHTFALL

Jeremy Grant (USA, 66 min)

Freeride mountain bikers Darren Berrecloth, Carson Storch, Cam Zink and Tom van Steenberg embark on an expedition to the Arctic's uninhabited Axel Heiberg Island. With guidance from scientists based on the island to study glacial retreat, the bikers discover a rapidly changing environment, along with challenging first descents topping 2,500 feet.



THE MIRNAVATOR

Sarah Menzies (USA, 11 min)

HAWAII PREMIERE

Ultra-runners face obstacles every step of the way, from finding time to train to dealing with the challenges of the sport itself: physical fatigue, injuries, conditions, weather, altitude and self-doubt. While competing in her first 50K trail race of the season, Mirna Valerio finds—in our social media world—that she must also overcome negative comments from random people.



RAIL ROAD

Gustavo Imigrante (Portugal, 23 min)

USA PREMIERE

Rail Road follows professional surfer Nic Von Rupp on a surf trip, but this time traveling via rail rather than plane. As Von Rupp notes, “We live in an age where there is a sense of limited time. For this trip, we opted to take the long road, and found out the longest is actually the oldest...The train is a path of history, full of people, but most of all...full of time!”



THIS AND NOTHING ELSE: RED BULL WA'A

Justin Mitchell, Marc Levy, Marc Solomon
(USA, 30 min)

In person: Red Bull Wa'a

Once a mode of transportation between islands, paddling an outrigger canoe is now Hawai'i's official team sport. The season builds towards the grueling race from Moloka'i to O'ahu; the Moloka'i Hoe. While over 1,000 paddlers compete from around the world, Team Red Bull Wa'a, newly formed on the Big Island—with a hardworking, local crew at the core—has its eyes set on the big prize.



SENSE OF WONDER

Mathieu Le Lay (France, 3 min)

USA PREMIERE

Set in the Dolomites, in the early hours of the morning, *Sense of Wonder* evokes the feeling of early morning stillness, of mist rising in the mountains, of the first light of dawn breaking pink and orange through the clouds, of wonder at the beauty all around. "This undefinable beauty," the filmmaker writes, "pointing so clearly to something immeasurably greater than ourselves."



THE RIDGE

Stu Thomson (UK, 7 min)

Danny MacAskill returns home to the Isle of Skye, in his native Scotland, to attempt his lifelong dream of riding the Cuillin Ridge. A technically challenging route for even an accomplished mountaineer to hike, MacAskill imagines riding the trail on his mountain bike. Featuring jaw-dropping imagery, mind-boggling mountain biking sequences and Danny MacAskill himself.



SERENGETI RULES

Nicolas Brown (UK, USA, 84 min)

BIG ISLAND PREMIERE

In the 1960s, a small group of scientists, working in various parts of the world, independently come to understand that some species, or "keystones," maintain the conditions and environment necessary to support the whole web of life around them; this holds for any ecosystem, in any location. When keystones are removed, other species and, at times, whole ecosystems, disappear.



SATORI

Rick Wall (South Africa, 54 min)

HAWAI'I PREMIERE

A beautiful and cinematic surf film, *Satori* follows a group of surfers whose lives were shaped by the waves near Cape Town, at Dungeons and Sunset Reef. The film notes, "To have the confidence to overcome your fears, and unlock your potential, you need to be completely present. The feeling of opening yourself up to the ocean is one of both beauty and fear. In that moment 'satori' is reached."



SHREDDING MONSTERS - MAVERICKS

Pedro Temboury, JT Taylor (Spain, 53 min)

HAWAI'I PREMIERE

Shredding Monsters: Mavericks follows big wave surfer Garrett McNamara as he returns to Mavericks for the first time since an epic wipeout there two years prior. McNamara is joined by surfers Jamie Mitchell, Aaron Gold, Alessandro Marciano, Emily Erickson and 16-year-old Luca Padua as they face this challenging and notoriously menacing wave, and McNamara paddles in again. *Parental guidance suggested.*



SNOWMAN

Mike Douglas (Canada, 82 min)

Growing up, Mike Douglas and Kevin Fogolin loved skiing, spending every weekend in the mountains they could. *Snowman* follows their split paths as Douglas moves to the mountains, becomes a professional skier—part of the New Canadian Air Force—is featured on magazine covers and helps set the course in freeskiing. Fogolin's path back to the snow, takes a little longer.



TIME TO CHOOSE

Charles Ferguson (USA, 97 min)

Time to Choose explores the comprehensive scope of climate change along with an array of solutions available to us to change course, should we implement them in time, taking an unwavering look at this moment in human history. Through interviews with world-renowned entrepreneurs, innovators and people on the front line, *Time to Choose* shares both the challenge and the opportunity.



SURF SIBERIA

Konstantin Kokorev (Russia, 79 min)

USA PREMIERE

Beautifully filmed, *Surf Siberia* shares a glimpse into the history of surfing, and surf culture, in Russia. The film follows surfers Kostya Kokorev, Sergei Rasshivaev, Anton Morozov, Irina Kosobukina, Dmitry Pitiya and David Dzhlagoni in a two-year-long quest as they search for waves—and walk and camp in the snow—from St. Petersburg to Vladivostok, to the Arctic. *With subtitles.*



VAGUE À L'ÂME

Vincent Kardasik (France, 52 min)

BIG ISLAND PREMIERE

On December 11, 2014, Benjamin Sanchis was towed into one of the biggest waves ever ridden at Nazaré. He fell, was filmed through the ensuing dramatic wipeout, and earned the WSL "Wipeout of the Year" Award. Determined to win a different kind of big wave award, Sanchis sets out to find and ride the biggest waves, working with other surfers on the way. *With subtitles.*



TALES BY LIGHT - DYLAN RIVER

Abraham Joffe (Australia, 46 min)

HAWAI'I PREMIERE

Dylan River is an award-winning Aboriginal filmmaker and photographer. Largely self-taught, River comes from a family of storytellers and filmmakers; his grandmother, Freda Glynn, was one of the founders of the Central Australian Aboriginal Media Association (CAAMA). Inspired by his grandmother's work, Dylan's mission is to find examples of living Aboriginal culture.



THE WEIGHT OF WATER

Michael Brown (USA, 80 min)

HAWAI'I PREMIERE

In person: Harlan Taney

In 2001, Erik Weihenmayer became one of a small group of people to have climbed all Seven Summits, including Everest, and is the first blind person to have done so. *The Weight of Water* follows Weihenmayer as he now attempts to kayak through Grand Canyon. Joined by fellow blind kayaker Lonnie Bedwell, Weihenmayer again sets out to achieve what only few can imagine.



WHITE RHINO

Brent Storm (USA, Canada, 67 min)

BIG ISLAND PREMIERE

What started as a project to share the stories behind surf photographer Brian Biemann's most memorable photos, evolved into a broader story following the unfolding of a dual quest: that of the big wave surfers seeking to ride some of the largest swells yet seen in the South Pacific, including a mythical "white rhino," and the photographers who position themselves to capture the action.



YOUNG SEA

Mattias A. Klum (Sweden, 55 min)

USA PREMIERE

National Geographic photographer Mattias A. Klum follows the cycle of seasons around the beautiful, yet also threatened, inland Baltic Sea. In this quiet film, *The Young Sea* shows the hidden life of the extraordinary species that live in the Baltic Sea; a unique place that, as the filmmaker notes, "is worth fighting to save, to pass to future generations as a vibrant, living place."



WOLF SPIRIT

Julia Huffman (USA, 9 min)

WORLD PREMIERE

Most who are unfamiliar with wild wolves, don't realize filming a wolf up close, as done by *National Geographic* photographer Jim Brandenburg, is extremely rare. Wolves are elusive and avoid contact with humans, generally remaining out of sight. Brandenburg describes a deeper understanding of wolves, along with a sadness in their decline, as they continue to be hunted.



WORLD'S HIGHEST MARATHON

Bjarne Salén (USA, 7 min)

HAWAI'I PREMIERE

In person: Bjarne Salén

The Tenzing Hillary Everest Marathon is held each year from Everest Base Camp on May 29, with the course, crisscrossing the high sherpa trails of Khumbu Valley. The event commemorates the historic ascent of Mount Everest by the late Tenzing Norgay Sherpa and Sir Edmund Hillary on May 29, 1953. Christopher Mohn, a Lyme disease survivor, takes up the challenge.

Surfing in the Russian arctic, from the film *Surf Siberia*. Photo ©Tania Elisariva



TUESDAY, JAN 1

	Parker	Kahilu	HPA Gates	Fairmont	Fairmont 2
8:00	[Blank]				
8:30	[Blank]				
9:00	[Blank]				
9:30	[Blank]				
10:00	10:00a-11:30a Lost Land of Volcano- Ep. 1	10:00a-11:30a The Ridge Instant Surf White Rhino	10:00a-11:30a Serengeti Rules	10:00a-11:30a Home Trails Mimavator Follow Through How to Run	
10:30	Q & A			Q & A	
11:00					
11:30	11:45a-1:00p Natural History Museum Alive	11:45a-1:15p Home Trails Mimavator Follow Through How to Run	11:45a-1:15p Family of the Wa'a	11:45a-1:15p The Ridge Instant Surf White Rhino	noon-1:00p Andy Collins
noon		Q & A			Q & A
12:30					
1:00	1:15p-2:15p Cold Water Apollo 13	1:30p-3:45p Conquest of the Skies- First to Fly	1:30p-3:15p Hesburgh	1:30p-3:00p Family of the Wa'a	1:30p-2:30p Drew Harvell
1:30					Q & A
2:00					
2:30	2:30p-3:45p Ireland's Deep Atlantic- Leviathan	Snowman			
3:00	Q & A				
3:30			3:30p-5:00p Inside Indus Midway: Edge of Tomorrow	3:15p-4:45p Going Solo Rail Road	
4:00	4:00p-5:00p The Game - Ep. 1	4:00p-5:00p Voyager Exhibit		Satori	
4:30			Q & A		
5:00	[Blank]				
5:30	[Blank]				
6:00	6:00p-7:45p TBA: Snow Collective	6:00p-7:45p Chasing Ice	6:00p-7:30p Going Solo Rail Road	6:00p-7:30p Surf Siberia	
6:30	Q & A				
7:00	Conquering the Dragon		Satori		
7:30		Q & A			
8:00	8:00p-9:15p Emocean	8:00p-9:15p North of Nightfall	7:45p-9:15p The Human Element	7:45p-9:15p Cold Water Made in Ireland Vague à l'Âme	
8:30					
9:00	Q & A		Q & A		
9:30	[Blank]				
10:00	[Blank]				

WEDNESDAY, JAN 2

	Parker	Kahilu	HPA Gates	Fairmont	Fairmont 2
8:00	8:15a-9:15a BREAKFAST TALKS				
9:30a-11:15a	The Camino Voyage	9:30a-10:45a Conquest of the Skies- Rivals	9:30a-11:00a Wonder Living in Future's Past	9:30a-11:00a Going Solo High Marathon	
		Q & A		Q & A	
11:00a-12:30p		TBA	11:15a-12:45p Home Trails Mimavator Follow Through	11:15a-12:30p Attenborough: Behind the Lens	
11:30a-12:45p	Lost Land of Volcano- Ep. 2	Shredding Monsters	Q & A	Q & A	
1:00p-2:15p	Ireland's Deep Atlantic- Open Ocean	12:45p-1:45p Conquest of the Skies- Triumph	1:00p-2:45p Serengeti Rules	12:45p-2:15p TBA	1:00p-2:15p Anthony Geffen
	Q & A				Q & A
2:00p-3:45p		2:00p-3:45p Weight of Water	Q & A	2:30p-3:45p Natural History Museum Alive	2:45p-3:45p Jules Kortenhorst
2:30p-4:00p	The Human Element	Q & A	3:00p-4:00p Judi Dench: My Passion for Trees		Q & A
4:15p-5:15p	The Game - Ep. 2	4:00p-5:30p Wonder Living in Future's Past	4:15p-5:45p The Ridge Instant Surf White Rhino	4:00p-5:30p Inside Indus Midway: Edge of Tomorrow	
				Q & A	
6:15p-7:45p	Snowman	6:00p-7:45p Hesburgh	6:15p-8:00p Time to Choose	6:00p-7:45p Instant Surf The Ridge Chasing Niagara	
				Q & A	
8:00p-9:45p	TBA: Finding the Line	8:00p-9:30p Chasing Coral	8:15p-9:45p Surf Siberia	8:00p-9:30p Serengeti Rules	
	Q & A			Q & A	
9:30	[Blank]				
10:00	[Blank]				

THURSDAY, JAN 3

	Parker	Kahilu	HPA Gates	Fairmont	Fairmont 2
8:00	8:15a-9:15a				
8:30	BREAKFAST TALKS				
9:00					
9:30	9:30a-10:45a Lost Land of Volcano- Ep. 3	9:30a-11:00a Going Solo High Marathon Q & A	9:30a-10:30a Attenborough: Behind the Lens	9:30a-10:30a Conquest of the Skies- First to Fly	
10:00	Q & A	Eclipse Q & A			10:00a-11:00a TBA: Snow Collective Q & A
10:30			10:45a-12:15p Instant Surf Chasing Niagara	10:45a-12:30p Dolphin Reef	
11:00	11:00a-noon Caren Loebel-Fried Q & A	11:15a-12:30p Wolf Spirit Midway: Edge of Tomorrow Q & A	Q & A	Q & A	11:15a-12:30p Tony Harrington Q & A
11:30					
noon	12:15p-1:15p Conquest of the Skies- Rivals	12:45p-2:30p Home of Trails Rail Road	12:30p-2:00p Going Solo High Marathon Q & A	12:45p-2:30p Weight of Water	12:45p-2:15p Emocean
12:30			Eclipse Q & A	Q & A	
1:00	1:30p-3:00p Family of the Wa'a	Satori	2:15p-3:45p Wolf Spirit TBA: Rare Creatures Q & A	2:45p-4:15p Wonder Living in Future's Past	3:30p-4:30p James Balog EIS Q & A
1:30					
2:00		2:45p-3:45p Judi Dench: My Passion for Trees	4:00p-5:15p Lost Land of Volcano- Ep. 1 Q & A	4:30p-5:30p Judi Dench: My Passion for Trees	
2:30					
3:00	3:15p-4:45p Inside Indus				
3:30		4:00p-5:15p Ka Hana Kapa Roen Hufford Q & A			
4:00	The Game- Ep. 3				
4:30					
5:00	Red Bull Wa'a				
5:30	5:30p-6:30p Red Bull Wa'a		6:00p-7:45p The Camino Voyage	6:15p-7:30p The Coronation	
6:00	Q & A	6:30p-8:30p Albatross			
6:30	6:45p-8:30p Home of Trails Chasing Niagara				
7:00			8:00p-9:30p Cold Water Made in Ireland Vague à l'Amé	7:45p-9:30p Cold Water Apollo 13	
7:30					
8:00	Q & A	Q & A			
8:30	8:45p-10:00p The Ridge North of Nightfall	8:45p-10:15p Surf Siberia		Conquering the Dragon	
9:00					
9:30					
10:00					

FRIDAY, JAN 4

	Parker	Kahilu	HPA Gates	Fairmont	Fairmont 2
8:00	8:15a-9:15a				
8:30	BREAKFAST TALKS				
9:00					
9:30	9:30a-11:15a TBA	9:30a-11:15a Dolphin Reef	9:30a-11:15a TBA	9:30a-11:15a TBA	
10:00		Q & A			
10:30					
11:00	11:30a-1:30p Wolf Spirit Tales by Light Dylan River	11:30a-1:15p TBA	11:30a-1:00p Lost Land of Volcano- Ep. 2	11:30a-1:00p TBA	11:30a-1:00p TBA
11:30			Q & A		
noon	The Young Sea	Q & A			
1:00		1:30p-3:15p TBA		1:15p-2:45p TBA	1:15p-2:45p TBA
1:30					
2:00	1:45p-3:30p TBA				
2:30					
3:00		3:15p-5:15p TBA		3:00p-5:15p TBA	3:00p-5:00p TBA
3:30					
4:00	3:45p-5:15p TBA				
4:30					
5:00	Red Bull Wa'a				
5:30					
6:00				6:00p-7:45p TBA	6:00p-7:30p TBA
6:30					
7:00					
7:30					
8:00					
8:30					
9:00					
9:30					
10:00					



Kauna'oa Bay from Mauna Kea Beach Hotel. Photo credit: Josh Fletcher

Breakfast Talks

Start your day with light fare, coffee and compelling conversation. Breakfast talks are from 8:15-9:15 am. Breakfast talk locations are the Garden Room at the Mauna Kea Beach Hotel and at Anna Ranch Heritage Center in Waimea.

WED JAN 2

Anna Ranch Heritage Center Attendee Talk Story

Bring your mug, your Festival Program, grab a cup of coffee and hear the buzz from other attendees as you plan your day.

Mauna Kea Beach Hotel

Anthony Geffen

Anthony Geffen has garnered over 50 international awards, including multiple British Academy Film Awards (BAFTAs), multiple Emmy Awards and the Sir Charles Wheatstone Award for outstanding contribution to film and television. His work encompasses 11 projects with David Attenborough, including the award-winning *Conquest of the Skies* series. Join Anthony Geffen as he shares behind-the-scenes stories from recent productions and his work with both David Attenborough and the late Stephen Hawking.

THU JAN 3

Anna Ranch Heritage Center

Harlan Taney

Based out of Flagstaff, Arizona, Harlan Taney is the founder of 4 Corner Film Logistics, a company specializing in outdoor and adventure film production. With clients including National Geographic, BBC, Discovery Channel and others, 4 Corner Film Logistics provides innovative filming solutions and logistics for film production in challenging, remote and difficult-to-access regions, and harsh climate conditions. Join Harlan Taney as he shares stories behind-the-scenes from filming in remote and challenging environments.

Mauna Kea Beach Hotel

Paul Baribault

Paul Baribault is a vice president at Walt Disney Studios Motion Pictures. He leads Studio Marketing Operations and Strategy for Pixar Animation Studios and Disney Animation Studios films. Baribault also leads the Disney nature film label as the Brand, Creative, Marketing and Production Lead. Baribault has overseen a range of films in this role, including *Incredibles 2*, *Finding Dory*, *Frozen*, *Coco*, *Moana*, *Inside Out*, *Zootopia*, *Monsters University*, *The Muppets*, *Earth*, *Oceans*, *African Cats*, *Chimpanzees*, *Bears*, *Monkey Kingdom* and *Born in China*. Join Paul Baribault as he shares behind-the-scenes stories from recent productions.

FRI JAN 4

Anna Ranch Heritage Center

Jayson Sime

Jayson Sime is a motivational speaker, coach, ultrarunner and yoga teacher. Sime is the founder of Right to Shine LLC, which provides training and coaching to individuals and teams. He recently wrote and published his first book, *Self-Care Hacks: 50 Tips and Tricks to Maximize Your Performance, Well-Being and Happiness*. Join Jayson Sime as he shares words of wisdom and thoughts on how to run 100 miles.

Mauna Kea Beach Hotel

Jules Kortenhorst

Jules Kortenhorst is the chief executive officer (CEO) of Rocky Mountain Institute. Prior to RMI, Kortenhorst was the founding CEO of the European Climate Foundation (ECF); served as a member of the Dutch parliament; and worked for 20 years as a corporate executive, both as CEO for International Operations of ClientLogic Corporation and as managing director of Shell Bulgaria. Join Kortenhorst as he discusses the market transition to a clean and prosperous low carbon energy future and the importance of the role buildings play in this transition.



Artwork by Sophie Twigg-Smith Teururai

Morning Activities

WED JAN 2 – FRI JAN 4

Mauna Kea Beach Hotel

Yoga on the Beach

7-8 am

Join fellow festival attendees 7-8 am Jan 2-4 for sunrise yoga with instructor Chelsea Morriss. Classes meet at the upper lawn by the lu'au grounds, and if conditions permit, will move to the beach. Come enjoy first light on the ocean and an invigorating start to the day. Bring your own mat or towel, and a water bottle.



Photo credit: Josh Fletcher

Photo credit: Josh Fletcher



Artwork by Sophie Twigg-Smith Teururai

WED JAN 2 – FRI JAN 4

Kawaihae Canoe Club

Paddle an Outrigger Canoe

6:15-7:45 am

Waimea Ocean Film Festival attendees are invited to join Kawaihae Canoe Club in Kawaihae Harbor to learn how to paddle an outrigger canoe.

Participants must sign up in advance, know how to swim and sign a waiver, recognizing they understand there is some risk to any ocean-based activity. Participation is limited. Please sign up at the Festival Hospitality Desk at Kahilu Theatre by 5 pm the evening prior, or contact the Festival Office at 808-854-6095. Participants should arrive 15 minutes early.

Kawaihae Canoe Club in Kawaihae Harbor

The Kawaihae Canoe Club was formed in 1972 by a group of athletic and civic-minded individuals from Waimea and has been instrumental to the revival of the ancient Hawaiian tradition of outrigger canoe racing on the Big Island.

The club's dedication to promoting and perpetuating outrigger canoe paddling brings participants ranging in age from 10 to 80. Hawai'i's official team sport challenges kids by giving them a sense of direction and discipline.

FOUR SEASONS SCHEDULE January 5-9, 2019

	SAT JAN 5		SUN JAN 6	MON JAN 7	TUE JAN 8		WED JAN 9
	BALLROOM	HOKU	BALLROOM	BALLROOM	BALLROOM	HOKU	BALLROOM
9:30			9:30a-10:45a Natural History Museum Alive Q & A	9:45a-11:00a Wolf Spirit Midway: Edge of Tomorrow Q & A	9:30a-10:30a TBA: Lost Land of Volcano - Ep. 2		9:30a-11:00a Home Trails Mirnavator Follow Through How to Run Q & A
10:00							
10:30					10:45a-12:15p Going Solo High Marathon Conquering the Dragon Eclipse		
11:00			11:00a-12:15p Conquest of the Skies - Rivals Q & A	11:15a-12:45p Cold Water Made in Ireland Vague à l'Âme			11:15a-1:00p The Camino Voyage
11:30							
noon	noon-1:15p Conquest of the Skies - First to Fly Q & A		12:30p-1:30p Conquest of the Skies - Triumph	1:00p-2:30p Family of the Wa'a	12:30p-2:15p Weight of Water Q & A		1:15p-2:45p Emocean TBA: Snow Collective
12:30							
1:00			1:45p-2:30p Jules Kortenhorst				
1:30	1:30p-3:00p Attenborough: Behind the Lens Q & A		2:45p-4:00p Lost Land of Volcano - Ep. 1 Q & A	2:45p-4:15p Wonder Living in Future's Past	2:30p-3:30p TBA: Lost Land of Volcano - Ep. 3		3:00p-5:00p Hesburgh
2:00							
2:30			4:15p-5:15p Rick Hazlett Kilauea Q & A	4:30p-5:15p Red Bull Wa'a Q & A	4:00p-5:00p Ka Hana Kapa	5:15p-6:15p Hālau	
2:30							
3:00	3:15p-4:30p Judi Dench: My Passion for Trees Q & A						
3:30							
4:00							
4:30							
6:00	6:00p-7:15p The Coronation	7:00p-8:15p The Ridge White Rhino	6:00p-8:00p Chasing Niagara Q & A Inside Indus	6:00p-8:00p Albatross Q & A	6:15p-8:00p TBA: Rare Creatures Tales by Light-Dylan River		6:00p-7:00p TBA Q & A
6:30							
7:00			8:15p-9:45p Cold Water Surf Siberia	8:15p-9:45p Going Solo Rail Road Satori	8:15p-10:00p The Ridge Home of Trails White Rhino	6:45p-8:15p TBA	7:15p-9:00p Cold Water Apollo 13
7:30	7:30p-9:15p Wonder Serengeti Rules	8:30p-9:45p Home of Trails TBA: 60 Minutes North of Nightfall				8:30p-10:00p TBA	Follow Through
8:00							
8:30							
9:00							
9:30							
10:00							



Four Seasons Breakfast Talks

Start your day with coffee, pastries and compelling conversation. Breakfast Talks are 8:45-9:45 am in Moana Terrace above 'Ulu Ocean Grill.

SUN JAN 6

Anthony Geffen

Anthony Geffen has garnered over 50 international awards, including multiple British Academy Film Awards (BAFTAs), multiple Emmy Awards and the Sir Charles Wheatstone Award for outstanding contribution to film and television. His work encompasses 11 projects with David Attenborough, including the award-winning *Conquest of the Skies* series. Join Anthony Geffen as he shares behind-the-scenes stories from recent productions and his work with David Attenborough and the late Stephen Hawking.

MON JAN 7

Alice Garrett

Alice Garrett currently serves as a special assistant for the Pacific Region (Region One) Refuges Program of U.S. Fish and Wildlife Service. The Pacific Region contains 67 National Wildlife Refuges located in Hawai'i and other Pacific Islands, Idaho, Oregon and Washington, including Midway Atoll National Wildlife Refuge, which sits within Papahānaumokuākea Marine National Monument. Join her as she talks about Papahānaumokuākea Marine National Monument and recent and future film productions about these areas.



Artwork by Sophie Twigg-Smith Teururai

Artwork by Sophie Twigg-Smith Teururai



TUE JAN 8

Harlan Taney

Harlan Taney is the founder of 4 Corner Film Logistics, a company specializing in outdoor and adventure film production. During production of *The Weight of Water*, Taney wore multiple hats. He was co-producer; he was a cameraman; he coordinated all logistics for the trip itself, including river support, the film crew and acquisition and set up of any specialized camera equipment required; and he was guide and safety for kayaker Erik Weihenmayer. Join Harlan Taney as he shares behind-the-scenes stories from this production and discusses current and future projects.

WED JAN 9

Jayson Sime

Jayson Sime is a motivational speaker, coach, ultrarunner and yoga teacher. Sime is the founder of Right to Shine LLC, which provides training and coaching to individuals and teams. He recently wrote and published his first book, *Self-Care Hacks: 50 Tips and Tricks to Maximize Your Performance, Well-Being and Happiness*. Join Jayson Sime as he shares words of wisdom and thoughts on how to run 100 miles.

Anthony Geffen

Anthony Geffen, founder and CEO of Atlantic Productions, worked 10 years for the British Broadcasting Corporation (BBC) before establishing Atlantic Productions in 1992. Geffen has garnered over 50 international awards for his work, including three British Academy Film Awards (BAFTAs), eight Emmy Awards and the Sir Charles Wheatstone Award— one of the highest honors in filmmaking—for outstanding contribution to film and television.

Screened worldwide, Geffen’s films comprise a fascinating mix of documentaries, theatrical films and IMAX productions. His work encompasses 11 projects with David Attenborough, including the award-winning *Great Barrier Reef Series*, *Conquest of the Skies* and *Natural History Museum Alive*. Geffen also produced the highly regarded BBC series *Inside the Commons*, the landmark BBC/Discovery series *The Promised Land* and the award-winning, theatrical film *Wildest Dream: Conquest of Everest*.

Recent and current productions include *Judi Dench: My Passion for Trees*, *The Coronation*—a very special production filmed with the Queen of England and released during the festival period last year, a film about the Titanic, a Nova special about the 2018 eruption of Kīlauea volcano, and *Deep Planet*—a five-part series for the Discovery Channel which involves dives to the deepest points of every ocean. Geffen was also involved in an immersive project about Black Holes; creating a virtual tour of the universe with Hawking as the guide.

Atlantic Productions is one of the most highly regarded, high-end, factual production companies in the world.

Considered a pioneer in multi-platform storytelling, Geffen is well known for his work on multiple digital platforms, including projects in 3D, interactive apps and now immersive experiences. Under its umbrella, Atlantic Productions incorporates a group of companies including Zoo (computer graphics) and Colossus (3D).

Geffen was also responsible for setting up Alchemy VR. In the December 2018 edition, which features Geffen’s recent work with the late Stephen Hawking, *Wired Magazine* called Atlantic Productions “the pioneering company behind some of the most exciting advancements in VR (virtual reality), 3D and AR (augmented reality) storytelling outside of Hollywood.”

In 2017 Geffen received the first BAFTA awarded for VR storytelling. He speaks regularly at key media and technology forums, including TEDx and Google Zeitgeist. Geffen is a Fellow of St Cross College, Oxford.

Join Anthony Geffen for a special presentation as Geffen shares a behind-the-scenes look at immersive storytelling and his future productions 1 pm Wednesday, Jan 2 in the Fairmont Orchid - Festival Presentation Room. The Festival Presentation Room is located across the hall from film screenings.

Join Anthony Geffen for a Breakfast Talk Wednesday, Jan 2 at Mauna Kea and Sunday, Jan 6 at Four Seasons.

In the December 2018 edition, which features Geffen’s recent work with the late Stephen Hawking, *Wired Magazine* called Atlantic Productions “the pioneering company behind some of the most exciting advancements in VR (virtual reality), 3D and AR (augmented reality) storytelling outside of Hollywood.”



Join Anthony Geffen for discussion following the showing of the film David Attenborough’s *Conquest of the Skies* - Rivals 9:30 am Wednesday, Jan 2 at Kahilu Theatre; and 11 am Sunday, Jan 6 at Four Seasons. Join Anthony Geffen for discussion following the showing of the film Attenborough: Behind the Lens 11:15 am Wednesday, Jan 2 at Fairmont Orchid; and 1:30 pm Saturday, Jan 5 at Four Seasons. Also join Anthony Geffen for an introduction to the film *The Coronation* 6:15 pm Thursday, Jan 3 at Fairmont Orchid; and 6 pm Saturday, Jan 5 at Four Seasons.

Join Anthony Geffen for discussion following the showing of the film Judi Dench: *My Passion for Trees* 3:15 pm Saturday, Jan 5 at Four Seasons; for discussion following the showing of the film *Natural History Museum Alive* 9:30 am Sunday, Jan 6 at Four Seasons; for discussion following the showing of the film David Attenborough’s *Conquest of the Skies* - First to Fly noon Saturday, Jan 5 at Four Seasons; and David Attenborough’s *Conquest of the Skies* - Triumph 12:30 pm Sunday, Jan 6 at Four Seasons.



Jules Kortenhorst

Jules Kortenhorst is the Chief Executive Officer of Rocky Mountain Institute. He is a recognized leader on global energy issues and climate change. His background spans business, government, entrepreneurial and nonprofit leadership.

Since 1982, Rocky Mountain Institute (RMI) has advanced market-based solutions that transform global energy use to create a clean, prosperous and secure future. An independent, nonprofit think-and-do tank, RMI engages with businesses, communities and institutions to accelerate and scale replicable solutions that drive the cost-effective shift from fossil fuels to efficiency and renewables.

Prior to RMI, Kortenhorst was the founding CEO of the European Climate Foundation (ECF), the largest philanthropic organization dedicated to policy development and advocacy on climate change in Europe. Before launching ECF, he served as a member of the Dutch parliament for the Christian Democratic Party.

During the first 20 years of his career, Kortenhorst worked in the business world. He was the CEO for International Operations of ClientLogic Corporation, a global leader in outsourced customer relationship management (CRM) solutions. He worked for almost 10 years for Royal Dutch/Shell, among others, as managing director of Shell Bulgaria, and he began his career as an analyst at McKinsey & Co.

Prior to RMI, Kortenhorst was the founding CEO of the European Climate Foundation (ECF), the largest philanthropic organization dedicated to policy development and advocacy on climate change in Europe. Before launching ECF, he served as a member of the Dutch parliament for the Christian Democratic Party.



The RMI Innovation Center is a 15,000 square-foot office building. It produces more energy than it uses on an annual basis plus enough to power six electric vehicles.

Kortenhorst currently serves on the Energy Transition Commission, on the World Economic Forum Future Council on Energy and on the board of Stedin Holding NV. Jules is married to Searl Vetter and has four children.

Kortenhorst holds a Masters of Business Administration from Harvard Business School and is a Baker Scholar with a Masters in Economics, from Erasmus University of the Netherlands.

Please join Jules Kortenhorst for a presentation titled The Accelerating Energy Transition: the Market Transition to a Clean and Prosperous Low Carbon Energy Future 2:45 pm Wednesday, Jan 2 in the Fairmont Orchid - Festival Presentation Room; and 1:45 pm Sunday, Jan 6 at Four Seasons.

Join Jules Kortenhorst for a Breakfast Talk Friday, Jan 4 at Mauna Kea.

Rocky Mountain Institute (RMI) — Buildings *Excerpts reprinted with permission from rmi.org*

INITIATIVE: PATHWAYS TO ZERO

We are driving early movers in the buildings industry on a path to—or beyond—net zero energy by working with individual buildings, districts, cities and portfolios to significantly reduce energy use, and powering them with renewable energy sources cost-effectively while also supporting dynamic grid interface. We’re doing this by helping owners “lead by example,” with pioneering demonstration projects that show net zero can be achieved profitably and uncover new sources of value.

Why It Matters

If we are going to make meaningful progress toward global climate targets, we need to fix our buildings. They are the largest end-users of energy, and given the average 30-year lifespan, can be part of the problem or our climate solution for years to come. While demand for net zero energy (NZE) buildings has grown 700 percent between 2012 and 2016, NZE buildings still represent a mere fraction of our building stock. Plus, many of these projects are new construction, not retrofits. We need to bridge the gap today between the promise that NZE holds for commercial buildings and districts and actual market adoption.

Who’s Involved?

We’re working with leading private and government sector partners where we see the greatest opportunity to increase the speed and scale of net-zero energy buildings and districts. We work with large portfolio owners and managers, district-scale developers and leading federal agencies.

What We Are Doing

- **Net-Zero Carbon Buildings, Districts and Portfolios**
We’re overcoming design and business-model barriers to NZE in individual buildings and districts through leading-edge demonstration projects and industry convenings.
- **NZE Leasing**
We’re pioneering new lease structures to make NZE profitable for both landlord and tenants alike.
- **Grid-Integrated, Energy-Efficient Buildings (GEBs)**
We’re designing the integration of energy efficiency, renewable energy and energy storage, enabled by smart controls and microgrids that provide profit to building owners while supporting a clean energy system.
- **Zero-Carbon Policies**
We’re advising cities, regions and states to institute innovative policies and codes encouraging the building sector to implement carbon-free solutions.

INITIATIVE: PORTFOLIO ENERGY OPTIMIZATION

RMI’s Portfolio Energy Optimization initiative is capturing a \$290 billion opportunity in net present value by bringing building efficiency into the age of the portfolio owner with an innovative, hands-on, approach.

Why It Matters

Commercial buildings consume more than 35 percent of the generated electricity in the U.S. and are underperforming at every level. They waste energy, emit too much carbon and are too costly for owners

and occupants. But retrofits are not happening at the rate or scale needed. Today, portfolio property owners own most commercial buildings. Yet most building efficiency work is focused on single buildings, which has very different needs than traditional owner-occupiers. The diverse nature of commercial buildings, combined with technology and performance uncertainty, make simple energy optimization initiatives—which could greatly reduce energy use and improve building value—financially unattractive, resulting in slow adoption rates. The industry demands a better solution.

Who’s Involved?

We are working with leading U.S. commercial building portfolio owners, real estate investors and financial institutions, building managers, and energy conservation-measure providers and installers interested in capturing new sources of value and positioning commercial real estate portfolios for the future by deploying this innovative retrofit model.

INITIATIVE: RESIDENTIAL ENERGY

RMI is providing customer-focused solutions that empower and motivate U.S. homeowners to invest in trustworthy, home energy performance improvements at a rate and scale needed to combat climate change. By driving market-ready offerings that customers want, we can better deliver greater health, comfort, cost savings and property value to American families.

Why It Matters

The residential energy efficiency market provides one of the greatest opportunities to reduce greenhouse gas emissions, lower energy bills and improve home values. The market

We are working with leading U.S. commercial building portfolio owners, real estate investors and financial institutions, building managers, and energy conservation-measure providers and installers interested in capturing new sources of value and positioning commercial real estate portfolios for the future by deploying this innovative retrofit model.

can capture roughly \$144 billion by improving the performance of single-family homes, while also helping the planet and millions of families.

Who’s Involved?

We are working with partners in the real estate, finance, design, technology and marketing industries to drive residential energy upgrades.

What We Are Doing

- **City Support**
Providing support and expertise to U.S. cities looking to drive meaningful carbon reductions in the residential sector.
- **REALIZE**
Catalyzing the development of a speedy and scalable process for zero-carbon residential energy retrofits.
- **Finance the Future**
Increasing the availability of capital for home energy improvements and transparency of energy performance in the home purchase process.



James Balog

James Balog (“BAY-log”) is founder and director of the Earth Vision Institute and Extreme Ice Survey. For almost 40 years, his photography has broken new conceptual and artistic ground on one of the most important issues of our era: human modification of nature.

Balog is the author of eight books. His images have been collected in dozens of public and private art collections—and extensively published in magazines, including *National Geographic*, *Life*, and *Vanity Fair*; *National Geographic* featured the Extreme Ice Survey in 2007, 2010 and 2013.

To document the rapid glacial retreat underway, Balog founded the Extreme Ice Survey (EIS) in 2007. The project was featured in the 2009 PBS/NOVA special *Extreme Ice* and the internationally acclaimed documentary *Chasing Ice*. *Chasing Ice* won an Emmy in 2014 and was shortlisted for the Academy Awards. It has been screened at the White House, U.S. Congress, Great Britain’s House of Commons, the United Nations, and major international science and policy conferences, including COP-15 in Copenhagen and COP-21 in Paris. NBC, ABC, CBS, CNN, PBS and NPR have all done features on his work, as have David Letterman, Bill Maher and Bill Moyers.

Many organizations have given Balog their highest awards and accolades: the Heinz Foundation; American Geophysical

Union; Duke University; the Universities of Alberta, Missouri and Colorado; Nikon; the American Alpine Club; the International League of Conservation Photographers; the HIPA award under the patronage of the Crown Prince of Dubai; and the Royal Photographic Society of Great Britain.

James Balog has given multimedia presentations about EIS at TED and dozens of institutions, including the White House, the U.S. Congress, NASA, the Environmental Protection Agency, Apple, Qualcomm, Cornell University and Duke University. Balog was also a keynote speaker at an environmental philosophy conference in Istanbul sponsored by the Ecumenical Patriarch of the 300-million-member Orthodox Church.

The most recent of Balog’s eight books is *ICE: Portraits of Vanishing Glaciers*. Among his other titles are *Tree: A New Vision of the American Forest* and *Survivors: A New Vision of Endangered Wildlife*. His work can be found in dozens of public and private art collections, including the Museum of Fine Arts Houston, the Corcoran Gallery, the Peabody Essex Museum, the Denver Art Museum and the Gilman Paper Company.

Please join James Balog for discussion following the showing of the film *The Human Element* 7:45 pm Tuesday, Jan 1 at HPA Gates; and 2:30 pm Wednesday, Jan 2 at Parker Theatre. Also join James Balog for discussion following the showing of the film *Chasing Ice* 6 pm Tuesday, Jan 1 at Kahilu Theatre.

The Extreme Ice Survey (EIS)

In 2005, James Balog traveled to Iceland to photograph glaciers for *The New Yorker*. This led to a 2006 *National Geographic* assignment to document changing glaciers in various parts of the world. While shooting that story, which became the June 2007 cover story titled *The Big Thaw*, Balog, who in addition to being a photographer is a mountaineer with a graduate degree in geomorphology, recognized that extraordinary amounts of ice were vanishing with shocking speed. He noticed features, that took centuries to develop, were collapsing and vanishing in just a few years—or even weeks.

In response to what he saw, Balog founded the Extreme Ice Survey (EIS) in 2007. Guided by the recommendations of glaciologists, the EIS team installed time-lapse cameras at sites that represent regional conditions and have high scientific value, anchoring these cameras on cliff faces above the glaciers and custom-fitting them to withstand arctic conditions.

EIS maintains an extensive portfolio of over one million, single-frame photos detailing the art and architecture of ice, with 27 Nikon cameras watching over glaciers in Antarctica, Greenland, Iceland, Alaska, Austria and the Rocky Mountains. The cameras record changes in the glaciers every hour, year-round during daylight, and yield approximately 8,000 frames per camera per year. These images are combined into time-lapse videos that reveal how quickly climate change is transforming large regions of the planet and provide scientists with basic and vitally important information on the mechanics of glacial melting.



Photo ©James Balog

Join James Balog for a slide presentation and update on EIS, sharing images captured since completion of the film *Chasing Ice*, 3:30 pm Thursday, Jan 3 in the Fairmont Orchid - Festival Presentation Room; and 2:30 pm Tuesday, Jan 8 at Four Seasons.

Harlan Taney

Based out of Flagstaff, Arizona, Harlan Taney is the founder of 4 Corner Film Logistics, a company specializing in outdoor and adventure film production. With clients including National Geographic, BBC, Discovery Channel and others, 4 Corner Film Logistics provides innovative filming solutions and logistics for film production in challenging, remote and difficult-to-access regions, and harsh climate conditions.

As a professional kayaker and adventure sports athlete, Taney developed a reputation for dependability in the extreme sports environment with a resume that includes putting up ski mountaineering lines in Greenland, to executing 12-day, first descents on Class V rivers not previously run. For the last 18 years,



Harlan Taney



Harlan Taney in action. Photo credit: René Collins

Erik Weihenmayer rolls in Lava Falls with Harlan Taney just behind. Photo credit: James Q Martin



Taney spent summers as a Grand Canyon river guide, leading over 160 trips down the Colorado River.

Recently, Taney helped director Michael Brown and athlete Erik Weihenmayer realize the production of the film, *The Weight of Water*, working as one of the producers, cameramen and guide. Prior to filming, Taney organized the logistics for the trip through the Grand Canyon, including arrangements for river support, the film crew and specialized filming equipment. While filming, Taney also became Erik's eyes and guide as they navigated downstream, kayaking just off Erik's stern through each rapid.

In addition to his projects in film production, Taney also works to protect the Grand Canyon for future generations. Current issues he is involved with include proposed uranium

mining on the rim and the Grand Escalade Development Project, in which the Navajo Nation looks to develop a tram into the heart of the Grand Canyon. Taney recently helped in the production of a National Geographic film, *Divided Confluence*, to share what is at stake.

Please join Harlan Taney for discussion following the showing of The Weight of Water 2 pm Wednesday, Jan 2 at Kahilu Theatre; 12:45 pm Thursday, Jan 3 at Fairmont Orchid; and 12:30 pm Tuesday, Jan 8 at Four Seasons.

Join Harlan Taney for a Breakfast Talk Thursday, Jan 3 at Anna Ranch; and Tuesday, Jan 8 at Four Seasons.

Drew Harvell, Ph.D.

Dr. Drew Harvell, Ph.D., is a professor of ecology and evolutionary biology at Cornell University, where she teaches courses in marine ecology, marine invertebrate biodiversity and conservation oceanography. She is a past director for environment at the Atkinson Center for a Sustainable Future and a current faculty fellow.

Dr. Harvell has authored over 120 research papers and is widely recognized for work on health of marine ecosystems, chairing both the World Bank Targeted Research Program on Coral Health and the National Center for Ecological Analysis and Synthesis program on the Ecology of Marine Disease. She currently leads a group of scientists in a National Science Foundation (NSF)-funded study investigating how a changing climate might increase outbreaks of infectious disease in the ocean.

Publications by Dr. Harvell have appeared in *Science*, *Nature*, *Proceedings of National Academy of Sciences*, *Ecology*, *Public Library of Science*, *Biology* and *Frontiers in Ecology and the Environment*. Dr. Harvell has received support from the NSF, the Global Environmental Fund, National Geographic, NOAA and the Atkinson Center for Sustainable Future.

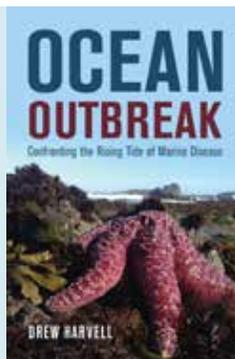
Dr. Harvell's laboratory research focuses on the ecology of infectious disease and ocean sustainability. A subtheme of this work includes evaluating the impacts of a warming climate on coral reef ecosystems. Projects in her lab involve multi-disciplinary, cross-scale approaches, including field studies, remote sensing, genetics, chemical analyses and mathematical modeling. One recent project focuses on detection of a virus and environmental conditions causing widespread sea star mass

mortality in U.S. waters. She is currently a senior scientist at The Kohala Center in Hawai'i and Fellow of the Ecological Society of America.

Curator of the Blaschka Marine Invertebrates Collection at Cornell, Dr. Harvell authored the book, *A Sea of Glass: Searching for the Blaschka's Fragile Legacy in an Ocean at Risk*. Released in the spring of 2016, *A Sea of Glass* was featured and reviewed by *Discover*, *Scientific American*, *The Guardian*, *The New York Times* and *Nature*, with full chapters excerpted in *Natural History* and *American Scientist*, and was picked as one of the best eight "Art Meets Science" books of 2016 by the *Smithsonian*.

Harvell's new title, *Ocean Outbreak*, is scheduled for release in April, 2019. As Harvell notes, "A healthy ocean is a lifeline for humanity, but the ocean's health is at risk as epidemics devastate both habitat-forming species, like seagrasses and corals, and keystone species, like starfish and salmon." The book explores the impact from a perfect storm of outbreak conditions caused by human activity, as infections cause massive die-offs in the ocean with sweeping ecological impacts, including loss of food harvest and impacts to our own health as a warming ocean provides an incubator for pathogens.

Please join Drew Harvell, Ph.D., for a presentation titled *Ocean Outbreak: Confronting a Rising Tide of Marine Disease* 1:30 pm Tuesday, Jan 1 in the Fairmont Orchid - Festival Presentation Room. The Festival Presentation Room is located across the hall from film screenings.



Anna Segal climbing Aiguille D'Argentiere Chamonix while filming *Finding the Line*, directed by Bjarne Salén. Photo ©Bjarne Salén

Bjarne Salén

An accomplished skier, climber and kayaker, Bjarne Salén founded Endlessflow Films in 2010 while working in Chamonix, France. Endlessflow Films specializes in providing footage in the mountains, in difficult terrain that might otherwise be challenging to access, and in expedition environments, garnering a reputation for quality production in adventure films and photography.

Bjarne Salén worked as cinematographer on a former festival favorite, the award-winning film *Eclipse*, which returns this year to allow attendees to hear behind-the-scenes stories from Salén himself. Salén recently worked with Olympian and X Games Slopestyle champion Anna Segal and her Freeride World Tour, plus big mountain skiing sister, Nat Segal, on the film *Finding the Line*.



Please join Bjarne Salén for discussion following the showing of *World's Highest Marathon and Eclipse* 9:30 am Wednesday, Jan 2 at Fairmont Orchid; 9:30 am Thursday, Jan 3 at Kahilu Theatre; and 12:30 pm at HPA Gates.

Join Bjarne Salén for discussion following a TBA showing of *Finding the Line* 8 pm Wednesday, Jan 2 at Parker Theatre.

Paul Baribault

Paul Baribault is a vice president at Walt Disney Studios Motion Pictures. He leads Studio Marketing Operations and Strategy for Pixar Animation Studios and Disney Animation Studios films. Baribault also leads the Disneynature film label as the Brand, Creative, Marketing and Production Lead. Baribault has overseen the release of a range of films in this role, including *Incredibles 2*, *Finding Dory*, *Frozen*, *Coco*, *Moana*, *Inside Out*, *Zootopia*, *Monsters University*, *The Muppets*, *Earth, Oceans*, *African Cats*, *Chimpanzees*, *Bears*, *Monkey Kingdom* and *Born in China*.



Baribault was involved with the production and release of *Earth, Oceans* (executive produced by Jake Eberts), *African Cats*, *Chimpanzee*, *Bears*, *Monkey Kingdom* and *Born in China*; seven of the top eight most successful, feature-length nature films.

Born in China marked one of the first co-productions in China and became the most successful nature film ever produced in China. Baribault assembled a diverse creative team for the project: a premier Chinese national director based in Beijing; a leading nature-filmmaking unit, based in Bristol, UK; and an academy award-winning producer based in Burbank, bringing the story of China's natural world to life.

Baribault serves on a number of board capacity positions including as executive chair of The Aspen Institute High Seas Initiative, vice chair of the Board of Directors for The Jane Goodall Institute and director on the Board of Directors for the United States Luge Association.

Baribault graduated with a Bachelor of Arts from Stanford University and a Masters of Business Administration from the University of Southern California, Marshall School of Business.

Baribault's responsibilities encompass strategic campaign planning, marketing operations, and the coordination of creative development, media planning and placement, digital media, social media, synergy, publicity, promotions, research, finance and events. Over the past eight years, a number of these campaigns have broken animation box office records, from the highest opening weekend to the highest worldwide gross of all time.

Baribault is also accountable for all aspects of the Disneynature theatrical division, a wildlife-focused, inspirational brand that produces and releases feature films, as well as related wildlife content and experiences. As executive in charge, he is responsible for feature production, finance, brand growth and development, educational content, consumer and retail strategy, and all marketing. Having grown the Disneynature label from scratch,

Please join Paul Baribault for a special advanced screening of *Dolphin Reef* 10:45 am Thursday, Jan 3 at Fairmont Orchid; and 9:30 am Friday, Jan 4 at Kahilu Theatre.

Join Paul Baribault for a Breakfast Talk Thursday, Jan 3 at Mauna Kea.

Rick Hazlett, Ph.D.

Dr. Richard Hazlett is an associate researcher for the U.S. Geological Survey (USGS) at Hawaiian Volcano Observatory (HVO) and an affiliate faculty member in the Department of Geology, University of Hawai'i at Hilo. He is also a professor emeritus from Pomona College, where he helped establish and coordinate the Environmental Analysis Program.

Hazlett's research in volcanology has taken him to various and remote regions in the world: Central America, southern Italy, the Western Cascades, the American Southwest and the Aleutian Islands of Alaska. He has authored several publications, including *Roadside Geology of Hawaii*, *Explore the Geology of Kīlauea Volcano* and *Volcanoes: A Global Perspective*.

Hazlett formed part of the team of USGS volcanologists called in from all over the country after Kīlauea

Volcano's 2018 Lower East Rift Zone eruption that began May 3, 2018. These scientists assisted current HVO and National Park Service (NPS)



staff in monitoring and understanding the eruption. The HVO monitors the active volcanoes in Hawai'i, assesses their hazards, issues warnings and advances scientific understanding to reduce impacts of volcanic eruptions.

Please join Rick Hazlett, Ph.D., for a presentation titled *Lava and Steam: The Great 2018 Eruption of Kīlauea*, as he discusses the mechanics of the recent eruption and shares stories behind-the-scenes 4:15 pm Sunday, Jan 6 at Four Seasons.

Photo credit: Richard Hazlett, U.S. Geological Survey





Rush Sturges

Rush Sturges is an award-winning filmmaker whose commercial clients include National Geographic, Red Bull, GoPro, Toyota and the Mexican Board of Tourism. His production company, River Roots, has released eight kayaking films, including *Chasing Niagara*.

In addition to his filmmaking career, Sturges is considered among the top freestyle kayakers in the world. Sturges won the Junior World Championship in 2003 and has since represented the United States at the Freestyle World Championships on two occasions and been a four-time member of the USA Team.

In 2011, Sturges was a part of an expedition team that completed a first descent of the Inga Rapids of the Congo River, considered the largest whitewater rapids on the planet. No prior attempt had been successful and the feat was documented in the film *The Grand Inga Project*. Sturges also completed a record descent down the



Rush Sturges running "Dome Drop" on the Rio Santo Domingo in Mexico. Photo credit: Matt Baker



L: Rush Sturges doing a front flip over Spirit Falls, WA. Photo credit: Austin Jackson. R: Rush Sturges drops down a 90-foot waterfall in Chiapas, Mexico. Photo credit: Marcos Ferro

Rio Santo Domingo in Chiapas, Mexico; the steepest navigable section of whitewater on earth, as documented in the film *Chasing Niagara*.

Sturges is credited with having invented several freestyle moves. One involves doing a complete front flip over a waterfall and is considered to be one of the most cutting-edge moves in freestyle kayaking. Sturges was named an Outdoor Idol by the Outdoor Industry Foundation and was chosen one of the 20 greatest outdoor athletes by *Outside Magazine*.

Sturges films, edits, produces and performs in his films.

Please join Rush Sturges for discussion following the showing of *Chasing Niagara* 6 pm Wednesday, Jan 2 at Fairmont Orchid; 10:45 am Thursday, Jan 3 at HPA Gates; 6:45 pm Thursday, Jan 3 at Parker School; and 6 pm Sunday, Jan 6 at Four Seasons.

Jayson Sime

Jayson Sime is a motivational speaker, coach, ultrarunner and yoga teacher. Sime is the founder of Right to Shine LLC, which provides training and coaching to individuals and teams. He recently wrote and published his first book, *Self-Care Hacks: 50 Tips and Tricks to Maximize Your Performance, Well-Being and Happiness*.



yoga instructor.

Since that time, Sime has taught yoga around the world and studied the self-care techniques employed by other cultures. After returning to Colorado in 2013, he committed himself to helping people and organizations achieve better health and wellness.

Sime's inspirational story and bid to run 100 miles with a friend was recently told in the short film, *How to Run 100 Miles*.

Please join Jayson Sime for discussion and book signing following the showing of the film How to Run 100 Miles 10 am Tuesday, Jan 1 at Fairmont Orchid; 11:45 am Tuesday, Jan 1 at Kahilu Theatre; and 11:15 am Wednesday, Jan 2 at HPA Gates.

Join Jayson Sime for a Breakfast Talk Friday, Jan 4 at Anna Ranch.

Prior to launching Right to Shine, Sime spent 16 years working in politics. He served as the state director for America Votes in both Colorado and Nevada, building the infrastructure for the first "early window" caucus in the history of the state of Nevada. In the midst of this campaign, Sime went to his first yoga class and discovered a new way to manage the stress of working in politics. He lost 75 pounds, stopped taking antidepressants and became a



Tony Harrington

Tony Harrington has been capturing images of the extremes of snow and surf around the globe for 30 years. Featured in media around the globe, his work has appeared on over 150 magazine covers and won numerous awards.

Harrington also creates and produces major adventure projects and events working with Red Bull, Teton Gravity Research and on TV networks including the Discovery Channel, NBC, Channel 10, ONE HD, FUEL TV and others across Japan and Asia.

Harrington founded the World Heli Challenge backcountry freeride competition, held in the Southern Alps of New Zealand, which he ran for 20 years until 2015. Freeriding—also known as big-mountain, freestyle or extreme— involves skiing or snowboarding on natural, ungraded terrain without a set course, goals or rules. The competition drew top skiers and snowboarders from around the globe.

Harrington has also published a ski magazine, operated ski resort and underwater photo services, and developed unique snow events including the Wanaka Big Air, Buller X extreme freeride competition and Junior Urban

Pro at Mt. Buller, Australia.

As both big wave surfer and former competitive surfer, plus big-mountain skier, Harrington has been able to bring his experience as an athlete in these extreme environments—whether carving first descents in Alaska and Greenland or searching for 50-foot waves—to his photography work and, later, to film.

Please join Tony Harrington for discussion following the showing of Emocan 8 pm Tuesday, Jan 1 at Parker Theatre; and 12:45 pm Thursday, Jan 3 in the Fairmont Orchid - Festival Presentation Room. Join Tony Harrington for discussion following a TBA showing of The Snow Collective 6 pm Tuesday, Jan 1 at Parker Theatre; and 10 am Thursday, Jan 3 in the Fairmont Orchid - Festival Presentation Room.

Please join Tony Harrington for a slide show presentation as Harrington shares behind-the-scenes stories behind some of his best-known images and magazine cover shots 11:15 am Thursday, Jan 3 in the Fairmont Orchid - Festival Presentation Room. The Festival Presentation Room is located across the hall from film screenings.

Andy Collins and Mokupāpapa Discovery Center

Andy Collins has worked for the National Oceanic and Atmospheric Administration (NOAA)'s Office of National Marine Sanctuaries since 2001. In this capacity, Collins currently manages the Mokupāpapa Discovery Center for Papahānaumokuākea Marine National Monument and World Heritage Site.

The Northwestern Hawaiian Islands are encompassed by Papahānaumokuākea Marine National Monument and World Heritage Site, and Collins has led several expeditions and programs to this region. Collins works on developing educational and outreach material to share information and stories about, and contained within, these islands.

During his tenure at NOAA, Collins has been deeply involved in work to expand the protection and international recognition for the remote islands and reefs of the Hawaiian Archipelago, including three expansions in size of the protected area, the World Heritage designation and numerous campaigns to raise awareness of this unique place.



Mokupāpapa Discovery Center in Hilo. Photo credit: NOAA

Collins received his dual bachelor's degree in forestry and ecology from SUNY College of Environmental Science and Forestry in Syracuse NY.

Please join Andy Collins for a presentation titled Twenty Years of Expanding Protections for the Northwestern Hawaiian Islands noon Tuesday, Jan 1 in the Fairmont Orchid - Festival Presentation Room. The Festival Presentation Room is located across the hall from film screenings.

The Mokupāpapa Discovery Center (MDC) was established in 2003 to interpret the natural science, culture and history of the Northwestern Hawaiian Islands and surrounding marine environment. As most people will never have the opportunity to visit these remote islands, the facility, located in Hilo on Hawai'i Island, serves to "bring the place to the people" and spur greater public awareness of the region and ocean conservation issues.



Aquarium at the Mokupāpapa Discovery Center. Photo credit: NOAA

THE MOKUPĀPAPA DISCOVERY CENTER

The Mokupāpapa Discovery Center (MDC) was established in 2003 to interpret the natural science, culture and history of the Northwestern Hawaiian Islands and surrounding marine environment. As most people will never have the opportunity to visit these remote islands, the facility, located in Hilo on Hawai'i Island, serves to "bring the place to the people" and spur greater public awareness of the region and ocean conservation issues.

Housed in Hilo's historic, century-old Koehnen Building, Mokupāpapa features a 3,500-gallon saltwater aquarium, interactive educational exhibits, life-size models of wildlife found in the Northwestern Hawaiian Islands, artwork inspired by those islands and Hawaiian culture, plus many interpretive panels

in both Hawaiian and English. The beauty of the historic Koehnen building has been preserved and refreshed to show off its majesty, including a koa wood staircase, Hawaiian hardwood floors, and high ceilings.

The nature and culture of the Northwestern Hawaiian Islands comes alive in this facility, transporting visitors to this remote ocean wilderness where predators rule the reefs; the skies teem with swooping, screeching seabirds; and the Native Hawaiian chanting of the Kumulipo (a Hawaiian creation chant) sets the mood for exploration and learning.

The center is open 9 am-4 pm Tuesday through Saturday for normal operating hours.

Alice Garrett

Alice Garrett currently serves as a special assistant for the Pacific Region (Region One) Refuges Program of U.S. Fish and Wildlife Service. The Pacific Region contains 67 National Wildlife Refuges located in Hawai'i and other Pacific Islands, Idaho, Oregon and Washington, including Midway Atoll National Wildlife Refuge, which sits within Papahānaumokuākea Marine National Monument.

Midway Atoll is one the oldest atoll formations in the world. The Hawaiian place name for Midway is Pihemanu, which means loud din of birds. It provides nesting habitat for millions of seabirds and is a touchstone for one of the most significant naval battles in our human history. Nearly three million birds nest much of each year at Midway Atoll including the world's largest population of albatrosses, Bonin petrels and endangered Laysan ducks. Hawaiian monk seals, green sea turtles and spinner dolphins frequent Midway's crystal blue lagoon encircled by coral.

Garrett has worked for the U.S. Fish and Wildlife Service for nine years;



The Pacific Region contains 67 National Wildlife Refuges located in Hawai'i and other Pacific Islands, Idaho, Oregon and Washington, including Midway Atoll National Wildlife Refuge, which sits within Papahānaumokuākea Marine National Monument.

most recently she has focused primarily on producing regional and national film projects starting with films in honor of the Midway 75th Anniversary Commemoration Event. The U.S. Fish and Wildlife Service co-hosted a livestream event with the U.S. Navy at Midway Atoll along with six satellite locations around the country. Garrett also collaborated with Tandem Stills & Motion Director Ian Shive on the production of a suite of still images and film products including *Midway: Edge of Tomorrow*, in addition to several projects underway.

Garrett holds a bachelor's degree in biology and a juris doctorate, with a specialization in environmental law and policy.

Please join Alice Garrett for discussion following the showing of Midway: Edge of Tomorrow 3:30 pm Tuesday, Jan 1 at HPA Gates; 4 pm Wednesday, Jan 2 at Fairmont Orchid; 11:15 am Thursday, Jan 3 at Kahilu Theatre; and 9:45 am Monday, Jan 7 at Four Seasons.

Join Alice Garrett for a Breakfast Talk Monday, Jan 7 at Four Seasons.

Chad Wiggins

A marine biologist by training, Chad Wiggins serves as director of The Nature Conservancy's Hawai'i Island Marine Program. In this capacity, Wiggins works to develop and implement strategies that combine science and traditional knowledge to maintain and improve West Hawai'i's coastlines and coral reefs.

As director, Wiggins leads efforts that help inform collaborative ocean management decisions, such as measuring the reef recovery from unprecedented coral bleaching across 40 miles of West Hawai'i coastline; modeling the effect of sea level rise on coastal habitats and fishponds; evaluating the benefits of current watershed protection efforts and integrating traditional knowledge with science for effective restoration.

As part of his role, Wiggins helps to translate scientific data for communities—he has worked with the Ka'upulehu community for the last 10 years to help people understand changes in fish abundance and coral health. In 2016, the community requested, and the state approved, a 10-year marine reserve, or rest area, along a 3.6-mile stretch of coastline, and early results demonstrate this area is working. Wiggins continues to work with the community to develop a fishery management plan that would maintain a sustainable harvest after the rest period.

At Kiholo, Wiggins and his team manage 6.5 acres of fishpond estuarine habitat donated in 2013 to The Nature Conservancy by Angus Mitchell. In partnership with local, non-profit Hui Aloha Kiholo, the Hawai'i State Parks, the Ala Kahakai National Historic Trail and thousands of volunteers and students, the team has removed



more than 200 cubic yards of invasive vegetation and rebuilt 560 feet of traditional rock walls. Through their efforts, the team has engaged over 4,000 volunteers and more than doubled mullet populations.

Wiggins also helped establish the South Kohala Coastal Partnership, which conducted a coastline use survey to assess compliance with existing fishing rules, reduced sediment delivered to coastal areas and removed invasive species from coral reefs. He volunteers as a scientific member of the West Hawai'i Fishery Council, which in collaboration with agencies, universities and local communities, has prohibited spearfishing while using SCUBA equipment and established protections for sharks.

Please join Chad Wiggins for discussion following the showing of Lost Land of the Volcano - Episode One 10 am Tuesday, Jan 1 at Parker Theatre; and 4 pm Thursday, Jan 3 at HPA Gates. Join Chad Wiggins following the showing of Lost Land of the Volcano - Episode Two 11:30 am Wednesday, Jan 2 at Parker Theatre; and 11:30 am Friday, Jan 4 at HPA Gates. Also join Chad Wiggins following the showing of Lost Land of the Volcano - Episode Three 9:30 am Thursday, Jan 3 at Parker Theatre.

Join Chad Wiggins for discussion following the showing of Ireland's Deep Atlantic: Leviathan 2:30 pm Tuesday, Jan 1 at Parker Theatre. Also join Chad Wiggins for discussion following the showing of Ireland's Deep Atlantic: The Open Ocean 1 pm Wednesday, Jan 2 at Parker Theatre.

Roen Hufford

After working for the City and County of Honolulu's Department of Parks and Recreation, and then purchasing and operating their own flower shop, Roen Hufford and husband Ken moved to her family's 10-acre homestead and flower farm in Waimea. There, they built a home, started to grow organic vegetables and became part of a group of people to start the first farmer's market in Waimea.



With a keen interest in growing their own food, coupled with years of experience in the florist industry, the Huffords were able to carve a life for themselves in Waimea. Roen's mother, esteemed lei maker and author Marie McDonald, was an art educator for most of her life and is also renowned for bringing back the lost art of kapa making. Hufford writes that her mother "has been my mentor and guide for many of my life endeavors. I am one of her best students. Whatever she was interested in, I learned to do too. Her kapa work started when I was a child. It was only after her retirement from teaching that she was able to get

serious about kapa. Naturally, I was her kokua."

Having learned to beat kapa from her mother, Hufford has been doing so for nearly 15 years, sharing the art and practice with those in the community who wish to do the same. Hufford continues to run the organic farm, along with husband Ken. Their delicious produce and flowers can be found at the Waimea Midweek Farmer's Market at Pukalani Stables on Wednesdays and the

Waimea Homestead Farmer's Market by the Thelma Parker Library entrance on Saturday mornings. Wauke is also grown on the farm for the making of kapa.

Hufford attended Pratt Institute in Brooklyn, New York, and received a Bachelors in Fine Art from the University of Hawai'i in 1973. At her mother's urging, encouragement and insistence, Hufford continues to grow flowers, make leis and beat kapa.

Please join Roen Hufford for a kapa making demonstration 5:15-6:15 pm following the showing of the film *Ka Hana Kapa* 4 pm Thursday, Jan 3 at Kahilu Theatre.



Images from the film *Ka Hana Kapa*

Victoria Nalani Kneubuhl

Victoria Nalani Kneubuhl is a Honolulu playwright and author. Her many plays have been performed in Hawai'i, the continental United States and have toured Britain, Asia and the Pacific. An anthology of some of her work, *Hawai'i Nei: Island Plays*, is available from the University of Hawai'i Press, along with her three mystery novels: *Murder Casts a Shadow*, *Murder Leaves its Mark*, and *Murder Frames the Scene*, set in the 1930s in Hawai'i.

Kneubuhl is currently the researcher, writer and co-producer for the popular local series *Biography Hawai'i* on PBS Hawai'i. She has also written other documentaries that feature local history and historic sites. The playwright has

written scripts for numerous living history and humanities performance programs at historic sites and for community organizations.

Kneubuhl holds a master's degree in drama and theatre from the University of Hawai'i. She is the recipient of the Elliot Cades Award for Literature and the prestigious Hawai'i Award for Literature, the highest literary honor in the state.

Please join Victoria Nalani Kneubuhl for discussion following the showing of *Ka Hana Kapa* 4pm Thursday, Jan 3 at Kahilu Theatre.



Kapa made by Marie MacDonald. Photo © Joshua McCullough, PhytoPhoto

The Voyager Exhibit

For the past three years, The Voyager Exhibit focused on the worldwide voyage of Hōkūle‘a, specially printing one-of-a-kind exhibits each year, showcasing the voyage from the year prior. The display featured the work of the ‘Ōiwi TV photographers on board, to share a sense and feel for life during the voyage. This year, the exhibit focuses on the upcoming voyage of Makali‘i, the voyaging canoe run by the organization Nā Kālai Wa‘a, as the culmination of its current voyaging project, Honauna Ola. The voyage will travel to and through the Northwestern Hawaiian Islands, which lie within Papahānaumokuākea



Kalo. Artwork by Caren Loebel-Fried.

Marine National Monument, a designated UNESCO World Heritage Site.

The Voyager Exhibit forms the basis for talks and discussions around voyaging during the festival. It is an interactive tool and basis for the discussion and educational programs taking place during the festival as well as in subsequent school visits. Films and programs weave together with the exhibit, as does the exhibit with the films and programs in the festival.

In 2019, the exhibit and talks focus on three aspects of the upcoming voyage of Makali‘i: Papahānaumokuākea Marine National Monument and the proposed sail plan for the voyage to the Northwestern Hawaiian Islands; canoe plants and



Acacia koa. Photo © Joshua McCullough, PhytoPhoto

Mokumanamana, Northwestern Hawaiian Islands. Photo credit: Brad Wong



the objective stemming from the Nā Kālai Wa‘a Hōea Moku Canoe Garden Project to supply and provision the wa‘a (canoe) sustainably from plants and material grown and harvested on the island; and crew training, which includes developing an understanding of non-instrument weather forecasting and navigation.

As the backdrop to the journey, the exhibit explores the creation and expansion of Papahānaumokuākea Marine National Monument, now a UNESCO World Heritage Site. The exhibit and associated talks share the proposed sail plan through the Northwestern Hawaiian Islands and the many considerations that went into planning the route for the voyage.

The exhibit also provides background information about canoe plants, central to the Nā Kālai Wa‘a Hōea Moku Canoe Garden Project, and the related goals for the voyage. Canoe plants include those brought by the early Polynesian settlers to the islands for a multitude of uses (canoe building, sustenance and

medicinal). Canoe plants also refer to plants native to Hawai‘i used in the building and lashing of canoes.

In conjunction with the Hōea Moku Project, and in collaboration with school gardens, part of the goal for the upcoming voyage is to supply and provision Makali‘i entirely with food and material grown and harvested on the island, relying on traditional canoe plants as the basis for the voyage.

Finally, the exhibit explores an understanding of non-instrument weather forecasting and navigation, central to the successful completion of this or any canoe voyage, along with other elements of crew training. A Star Compass will be on display and attendees will have the opportunity to learn about its use.

The exhibit opens with a ceremony 4 pm Jan 1 and will remain on display at Kahilu Theatre through Jan 27.



Northwestern Hawaiian Islands. Images this page ©Brad Wong

Voyager Exhibit Talks

TUE, JAN 2: THE VOYAGE

The upcoming voyage of Makali'i through the Northwestern Hawaiian Islands and Papahānaumokuākea Marine National Monument, a UNESCO World Heritage Site, will mark the culmination of years of planning and effort. The logistics behind planning and preparation for the journey involve determining the sail plan for the voyage itself, managing the proper maintenance and preparation of the canoe, crew training and provisioning of the canoe for the voyage.

Join Master (Pwo) Navigator Chadd Paishon and others to learn about the logistics and planning involved with the voyage: the planned route for the voyage, the intended destinations along the way, the considerations involved with setting the sail plan— including weather and conditions, and the dry dock preparation in advance of the voyage.



Following Breakfast Talks, The Voyager Exhibit Talks are 10-11 am in front of The Voyager Exhibit at Kahilu Theatre. Join Master (Pwo) Navigator Chadd Paishon, other members of Nā Kālai Wa'a and the Makali'i crew to learn more about voyaging and the upcoming voyage of Makali'i through the Northwestern Hawaiian Islands.

Guest Speakers and Presentations



WED, JAN 3: NAVIGATION AND CREW TRAINING

The Star Compass forms the basic framework for wayfinding. While the navigator uses a physical Star Compass as a learning tool in the beginning, the navigator will ultimately memorize the star charts—through years of study—and employ the Star Compass as a mental map to categorize the information needed for navigation.

Join Master (Pwo) Navigator Chadd Paishon to learn about the Star Compass, the art of non-instrument weather forecasting; the Honauna Ola program leading up to and culminating in this voyage; and the process overall of crew training.

THU, JAN 4: HOE'A MOKU, CANOE PLANTS, KAULA (CORDAGE) AND PROVISIONING THE CANOE

The logistics behind planning and preparation for the journey involve a team of people to plan for the voyage itself, to manage maintenance of the canoe and to ensure the canoe is properly stocked and provisioned. The goal for the upcoming voyage of Makali'i is to provision the canoe with food grown on Hawai'i Island, in collaboration with island school gardens. It also involves providing the kaula (cordage) and other material required on the canoe, using the same canoe plants the early Polynesians would have relied on for their voyages.

Join Master (Pwo) Navigator Chadd Paishon and others to learn more about the Hoe'a Moku Canoe Garden Project and the planning and collaboration underway in the provisioning of the canoe. Find out about the contribution from school gardens and the canoe plants used to build, maintain and provide cordage for the canoes. Learn how to braid cordage (rope) using material from plants grown on island.



Hawaiian monk seal and turtle napping. Photo credit: Mark Sullivan, NOAA Fisheries Hawaiian Monk Seal Research Program, 2007. Photo collected under NMFS Research Permit #848-1695

Chadd ‘Onohi Paishon and Makali‘i

Chadd ‘Onohi Paishon is one of the five Hawaiian Master (Pwo) Navigators who were inducted by Master (Pwo) Navigator Mao Pailug, the Micronesian navigator who brought the knowledge of wayfinding back to Hawai‘i. He is also senior captain of Makali‘i and helps to run Nā Kālai Wa‘a, the organization that built and manages the voyaging canoe Makali‘i on the Big Island. In this capacity, he participates in the wa‘a leadership, meeting regularly with the other Pwo captains.

Paishon has sailed on Hōkūle‘a since 1984, was a crewmember on the 1992 voyage of Hōkūle‘a to Tahiti and subsequently, joined Clay and Shorty Bertelmann’s efforts in the construction of the 54-foot voyaging canoe Makali‘i, sailing on her maiden voyage in 1995. Since then, Paishon has continued to captain Makali‘i, overseeing the operation of the canoe and helping to run the educational programs organized on Makali‘i by Nā Kālai Wa‘a. Paishon helped to captain Hōkūle‘a on several of the Worldwide Voyage (WWV) legs in 2015, before returning to the Big Island, where he helps to run the other programs maintained by Nā Kālai Wa‘a, including Hoesa Moku, Project Holokai and Honauna Ola. Paishon is joined by his wife and navigator, Pomai Bertelmann, by Pwo Captain Shorty Bertelmann and other members of Nā Kālai Wa‘a in these efforts.

Hoesa Moku is the canoe sustainability project currently housed at Nā Kālai Wa‘a’s 10-acre parcel in Hawi. The project focuses on canoe plants native to



Pwo Navigator Chadd ‘Onohi Paishon. Photo ©2015 Polynesian Voyaging Society. Photo credit: ‘Ōiwi TV Photographer Nā‘ālehu Anthony

Hawai‘i and supports canoe construction, maintenance and sustainability. The project offers crew, ohana, and community opportunity to learn about the use and maintenance of these resources, both at Hoesa and also on a larger scale with the natural forest.

Project Holokai provides opportunities for Hawai‘i Island students to experience the canoe and attain an understanding of open-ocean voyaging and non-instrumental navigation throughout all seasons. A cohort of 30 students meets throughout the year with the captains and crew of Makali‘i, who provide youth with hands-on canoe activities to connect them to the wa‘a and prepare for a final sail.



Northwestern Hawaiian Islands. Photo ©Brad Wong

Honauna Ola maintains the goal of sustaining Hawaiian cultural practices and sense of well-being through voyaging, which will culminate in the upcoming voyage through the Northwestern Hawaiian Islands.

Paishon reflects, “There is a saying that was started by Clay Bertelmann—the canoe is our island so the island is our canoe, he wa‘a he moku he moku

he wa‘a; we need to care for our resources when on our wa‘a or on our moku. The canoe always brings those lessons home.”

Please join Master (Pwo) Navigator Chadd Paishon as he leads The Voyager Exhibit Talks 10-11 am Jan 2-4 at Kahilu Theatre.

HONAUNA OLA OBJECTIVES:

Instruct and evaluate 24-to-30 potential canoe crew in the knowledge, practices and advanced skills required in wayfinding (navigating) and voyaging in order to fill the roles of captain, navigator, watch captain, quartermaster and crew.

Train 300 support crew in the important knowledge and practices critical to successful voyage support. Instruct trainees to cultivate plants in canoe gardens, prepare food and braid cordage, and learn chants and prayers for voyage ceremonies. Measure progress in learning and performance.

Demonstrate the knowledge, practice and skills learned through this period by successfully applying to the upcoming voyage of Makali‘i through the Northwest Hawaiian Islands—both on board the canoe, as well as in the support on the ground for the voyage itself.



Volcano Art Center Gallery. Photo credit: Jesse Tunison

Volcano Art Center Exhibit

Volcano Art Center (VAC) is a nonprofit art and educational organization founded in 1974, which operates both a gallery and an educational center. The highly regarded Volcano Art Center Gallery, located within Hawai'i Volcanoes National Park, is a fine art gallery representing the work of nearly 200 local artists. The Niaulani Campus in Volcano Village serves as Volcano Art Center's educational campus where classes, workshops, performances and events occur.

Volcano Art Center also develops and offers the award-winning Nā Mea Hawai'i Hula Kahiko performance series at the Pā Hula in Hawai'i Volcanoes National Park.

The Volcano Art Center Gallery is located in the historic 1877 Volcano House Hotel in Hawai'i Volcanoes National Park. Sales of art work in the gallery supports gallery artists and the Volcano community, along with the Volcano Art Center's cultural, arts education, forest restoration and professional artist development programs.

Ongoing classes and workshops in the visual arts are taught at Volcano Art

Center's Niaulani Campus in Volcano Village, often instructed by artists whose work is on display in the gallery.

As a special extension of the Volcano Art Center's Hula Arts Program, and as part of the Volcano Art Center Festival Exhibit, Hālau Na Kipu'upu'u, under the direction of Kumu Hula Micah Kamohoali'i, will share hula 5:15 pm Tuesday, Jan 8 in Hoku Amphitheatre at Four Seasons.

The Volcano Art Center Festival Exhibit features five artists whose work is represented by Volcano Art Center Gallery: Michael and Misato Mortara, Margaret Barnaby, Marian Berger, Dietrich Varez and Dino Morrow. The exhibit will be on display in the Fairmont Orchid - Festival Exhibit Room 10 am-8 pm Jan 1-3 and 10 am-6 pm Jan 4. The Festival Exhibit Room is located across the hall from film showings.



DINO MORROW

Dino Morrow is a documentary and portrait photographer who specializes in imagery of indigenous and local cultures. He is known for his stunning images documenting the practice of hula. Morrow also enjoys portraiture, lifestyle, events, travel and nature photography.

Morrow notes his current focus is to respectfully document Hawaiian and indigenous cultures as an intimate and traditional expression of sense of place, identity, connection, art, values, spirituality and offering. "For me, the ultimate value of an image is given when the participants accept the perspective, composition and feeling to be honorable and authentic. In order to achieve this, I rely on a personal connection with the subject and a keen sense of a deeper understanding from their perspective."



Dancer from Hālau Hula O Nā Like Ao Puna under the direction of Kumu Kona Garcia

Morrow's work will be on display at Volcano Art Center Gallery in a special exhibit titled Experiencing Ancient Hula Through the Photographer's Lens 9 am-5 pm daily Mar 30 through May 5, 2019.



Volcano Art Center's Hula Arts Program. Hālau Na Kipu'upu'u under the direction of Kumu Micah Kamohoali'i



DIETRICH VAREZ

The late Dietrich Varez remains one of the best-known artists on Hawai'i Island, popular for his vibrantly colored, uniquely stylized paintings, block prints and book illustrations that often celebrate ancient Hawaiian myths and legends. He was especially fond of the legends of the Volcano Goddess Pele and has portrayed her numerous times in his works.

Varez worked for decades, carefully hand-carving complex block prints out of linoleum. Linoleum, known for its use in 1950s and '60s' vintage flooring, allowed him to carve his master plates with incredible precision, creating lines so thin they could have been drawn with a fine-point pen.

Varez was born in Germany in the midst of World War II. His mother met and married a U.S. army sergeant during the U.S. occupation of Germany, and she and Dietrich moved with him back to Hawai'i. Varez noted that, after growing up in war-torn Germany, Hawai'i was his salvation and he was driven by a desire to give back to the place that had given him so much.

In 1968, Varez moved to Volcano, built a cabin, and began tending bar at the Volcano House Hotel. The budding-artist would make wood carvings of the goddess Pele and stand them on the bar while he worked. The carvings, cut from firewood, sold well enough to encourage his career as an artist. His experience carving wood naturally translated to block printing and in 1974 he took prints across the street to the newly opened Volcano Art Center Gallery. When seven sold in the first month, his career as a full-time artist was born, along with his long-standing relationship with the gallery, as one of its earliest artists.

By nature a quiet man, Varez lived with his wife Linda, a noted painter, in a remote rainforest setting near Volcano Village. Isolated by several miles of bad road, he was able to maintain the tranquility he desired for his work and the connection to the forest around him.

Varez had always been fascinated with the legends of Pele, and they proved rich subjects for his art. Some of his favorites were the ones about the relationships of Pele with the island's



plants, such as the 'ohelo berry, which is one of Pele's favorite offerings. He carefully depicted Hawaiians practicing the arts, skills and values of old Hawai'i, along with the stories of other myths and legends.

Dietrich Varez passed away August 14, 2018 at sundown to a beautiful sunset similar to his original paintings. His spirit will live on through the many artworks he created in his lifetime.

The Volcano Art Center continues to sell his work through a legacy program and offers printmaking classes weekly in his honor. Visit the calendar of events at www.volcanoartcenter.org for more information on these special classes.





Recognition, multiple plate wood block print. Below: *Look Both Ways*, multiple plate wood block print. Artwork by Margaret Barnaby

MARGARET BARNABY

Over her 30-year career as an artist, Margaret Barnaby has worked as a jeweler, a sculptor and a painter, as well as a printmaker. In the Honolulu print-makers annual show, her woodblock prints have been awarded the Jean Charlot prize, the John Chin Young award for Outstanding Relief (2011), and Hobbie purchase awards in 2007 and 2011, as well as the Hawai'i State Foundation on Culture and the Arts purchase awards in 2008 and 2011.



Many of the plants and animals Barnaby captures in her prints can be seen from her studio in Volcano Village. "Often the prints portray things that I'd like to see combined with real observation. I see a rare plant in bloom and then picture it with an 'alala flying through the foliage."

Barnaby begins her multiple-plate,

woodcut prints by drawing and planning for several days. It then takes her two or three days to hand-carve each plywood plate. Each plate will print one or more colors in the final picture. Depending on the number of plates required, carving can take up to a month. After making several trial copies of the print, she inks the first plate, puts it and the paper through an etching press, and repeats the process to make 10 to 15 copies. She goes through the inking and printing process for each successive color, carefully positioning the plate and paper for each pass through the press. Each print represents a long and careful process.

Barnaby's work can be found represented in Volcano Art Center Gallery as well as a few other galleries on the island.



L: *'I'iwi Up Close*, watercolor by Marian Berger. R: *Palila Up Close*, watercolor by Marian Berger

MARIAN BERGER

Known as a naturalist artist, Marian Berger has received many awards and commissions for her art, particularly her paintings of Hawai'i's native birds. Berger has received top honors for her entries in several Hawai'i Nei shows and multiple commissions including Bishop Museum Natural History calendars and a series of Audubon-style paintings of Hawai'i's Living Endemic Birds, completed in 2011. Berger's work has been featured in two solo exhibits at the Volcano Art Center Gallery; her most recent titled *Up Close*, which focused on 10 native Hawaiian forest birds.

In 1987, Berger created a series of paintings of Kaua'i's most endangered birds and plants for the Aston Kaua'i Resort, from which an edition of 2,000 prints was published. Proceeds from the sales were donated to the Hawai'i Nature Conservancy. Berger also presented U.S. Senator Daniel Inouye



and U.S. Representative Daniel Akaka with several of her original watercolors as tribute to their contributions in preserving Hawai'i's native wildlife.

The daughter of a meteorologist, Berger spent her early childhood on Wake Island and in Alaska where she acquired her father's love of science and her mother's artistic bent, along with their mutual love of the outdoors. "I assumed that art was a natural part of life, a way that everyone expressed themselves," Berger notes.

Marian Berger earned a Bachelor of Science in Wildlife Management from Humboldt State University, where she also took courses in representational drawing.

Berger's original watercolors, as well as fine art giclee reproductions, can be found at the Volcano Art Center Gallery.



Mirage Series, handblown glass vessels by Michael and Misato Mortara

MICHAEL AND MISATO MORTARA

Michael and Misato Mortara have been making glass together for over 20 years, opening their Volcano studio in 2000. The Mortara's work is found in private collections worldwide, as well as the permanent collection of the Hawai'i State Foundation on Culture and the Arts and The Contemporary Museum, Honolulu.

Michael Mortara notes, "There is something both dramatic and dynamic about the manipulation of a molten mass of glass, such that the process has almost as much appeal for me as the end result. Hot glass is a medium in constant motion where balance, timing and rhythm are the essential tools in the process. Once you start, you can't stop until it's done. After more than 30 years in glass, I've conceded that it is the glass that is really in control, however much I would like to think otherwise. There is no denying the inherent beauty of the material, and I have never made any attempt to direct

glass away from what it does best. I consider a work successful if the people whose life it becomes a part of derive some satisfaction from beauty and a sense of mystery as to how it evolved."

Michael Mortara earned a bachelor's degree in architecture at the University of Hawai'i, with a minor in fine art, studying glass under Rick Mills. He has been blowing glass full time since 1986. Misato Mortara was born in Shizuoka, Japan. She earned an associate degree in business administration at Pasadena City College before transferring to the University of Hawai'i. There, she took a course in glass with Rick Mills, after which she has devoted her life to study glass, mastering both blown and fused glass techniques.

The Mortara's fine art glass will be featured in a special exhibit titled From the Slopes Of Two Mountains at the Volcano Art Center Gallery 9 am-5 pm daily Jan 5 through Feb 10, 2019.

"There is something both dramatic and dynamic about the manipulation of a molten mass of glass, such that the process has almost as much appeal for me as the end result. Hot glass is a medium in constant motion where balance, timing and rhythm are the essential tools in the process. Once you start, you can't stop until it's done. After more than 30 years in glass, I've conceded that it is the glass that is really in control, however much I would like to think otherwise. There is no denying the inherent beauty of the material, and I have never made any attempt to direct glass away from what it does best. I consider a work successful if the people whose life it becomes a part of derive some satisfaction from beauty and a sense of mystery as to how it evolved."

—Michael Mortara



Autumn Calabash (handblown glass) Michael Mortara



Night Scope Series of handblown glass vessels by Michael and Misato Mortara

The Volcano Art Center Festival Exhibit features these five artists whose work is represented by Volcano Art Center Gallery: Michael and Misato Mortara, Margaret Barnaby, Marian Berger, Dietrich Varez and Dino Morrow. The exhibit will be on display in the Fairmont Orchid - Festival Exhibit Room 10 am-8 pm Jan 1-3 and 10 am-6 pm Jan 4. The Festival Exhibit Room is located across the hall from film showings.

Caren Loebel-Fried

Caren Loebel-Fried is an artist and author residing in Volcano, Hawai'i. She has published numerous books retelling Hawaiian legends through story and art: *Lono and the Magical Land Beneath the Sea*, *Hawaiian Legends of Dreams*, *Hawaiian Legends of the Guardian Spirits*, *Pua Polu and the Pretty Blue Hawaiian Flower*, *Legend of the Gourd* and *Naupaka*.

Loebel-Fried's awards include the Hawaii Book Publishers Association Ka Palapala Po'okela Awards for illustration and children's Hawaiian culture and the American Folklore Society's Aesop Prize for Children's Folklore. She has created iconic, educational art for conservation organizations and government agencies such as the U.S. Fish and Wildlife Service, Midway Atoll National Wildlife Refuge, Kīlauea Point Natural History Association and Conservation Council for Hawaii.

During the winter of 2014-2015, Loebel-Fried spent five weeks on Midway Atoll, counting nesting albatrosses and assisting with research efforts underway, so she might better represent the birds in print. With these activities and creating art for fundraising efforts, she hopes to help preserve, protect and restore Midway's biological diversity and support conservation efforts for



albatross. More than 70 percent of the world's population of Laysan albatross (Mōlī) reside on Midway Atoll, as does the largest population in the world of nesting black-footed albatross (Ka'upu). Following this experience, and in collaboration with Cornell Lab of Ornithology, Loebel-Fried created her most recent publication, *A Perfect Day for an Albatross*.

Some of Loebel-Fried's artwork from her book projects are on display as part of *The Voyager Exhibit* at Kahilu Theatre. The art is representative of canoe

plants that would have been brought by voyaging Polynesians to Hawai'i as food sources and other important uses, and/or were used here in the building and making of canoes.

Please join Caren Loebel-Fried for a "live documentary" presentation based on her book *A Perfect Day for an Albatross* 11 am Thursday, Jan 3 at Parker Theatre.

Please join Caren Loebel-Fried for a book signing to represent her books, artwork and prints 1-4 pm Thursday, Jan 3 at Kahilu Theatre. Books available at the signing will include *Lono and the Magical Land Beneath the Sea* and *A Perfect Day for an Albatross*.

Origami with Bonnie Cherni of Epic Origami

Epic Origami was founded by Bonnie Cherni, who was inspired to fold origami when she discovered John Montroll's collection of origami books at the age of 15. At Epic Origami, Cherni engages a team of accomplished origami artists and innovative engineers to create large-scale origami exhibitions, including a recent full gallery installation at the Denver International Airport and Big Island exhibits at 'Imiloa Astronomy Center and Keck Observatory.

In addition to larger-than-life origami installations, Epic Origami is also known for innovative teaching workshops that attract and excite audiences to the potential of origami. Epic Origami sculptures vary from miniature to life-size and are often made of exotic mediums such as aluminum, copper and canvas, in addition to paper.

Epic Origami has been featured in several publications, including *Hawaiian Airlines/Hana Hou*, *Alaska Airlines/Alaska Beyond* and *Ke Ola Magazine*. Through its work, Epic Origami



maintains a mission to raise awareness of endangered species through animal and ocean sculptures while furthering origami as an art form.

Join Bonnie Cherni for origami classes noon-3 pm Jan 1-4 at the Fairmont Orchid - Festival Seminar Room. The Festival Seminar Room is located next door to film screenings.





Maur'a Tapu. Artwork by Sophie Twigg-Smith Teururai

Sophie Twigg-Smith Teururai

Tahiti-based artist Sophie Twigg-Smith Teururai was born and raised at Waiuli, on the coast of Hilo Bay, one of seven brothers and sisters. She is the granddaughter of noted Hawai'i artist William Twigg-Smith. Having studied photography in high school and college, Sophie began making annual visits to French Polynesia as a photographer for noted Bishop Museum archaeologist Dr. Yosihiko Sinoto, before going on to study of painting at the University of Hawai'i (UH).

Sophie studied French literature and painting at the University of Hawai'i (UH), where she received her Bachelor of Arts. Sophie's artwork features lifestyle scenes and vistas from Hawai'i and Huahine, Tahiti, where she now

resides and reflects her love for the beauty and people of these islands. She is fluent in French and Tahitian and is a life-long surfer and swimmer.

Sophie Twigg-Smith Teururai will display her work Jan 1-4 at the Fairmont Orchid Festival Exhibit Room. The Festival Exhibit Room is located across the hall from film screenings.

Join Sophie Twigg-Smith Teururai to "Meet the Artist" 10 am-1 pm Jan 1 and 10 am-6 pm Jan 4 in the Fairmont Orchid Festival Exhibit Room.



Paradise. Artwork by Christian Enns

Christian Enns

A two-time National Scholastic Surfing Association (NSSA) Champion and Hawai'i Amateur Surfing Association (HASA) Champion, Christian Enns spent 10 years traveling as a professional surfer before settling down on the Big Island. As an artist, Enns creates visually striking, Hawai'i-themed paintings that feature the beauty of the islands and local shoreline, as well as intimate scenes from modern-day and traditional Hawaiian life.

Enns studied figurative realism and classical painting techniques at Laguna College of Art and Design in California, where he graduated cum laude with a Bachelor of Fine Arts. He works primarily with oil paint on panel or canvas.

The experience as a big wave surfer, riding 50-foot waves, brings a unique, personal perspective and connection to the ocean that Enns carries to his

work. Enns is represented by Tiffany's Art Agency and can also be viewed by appointment at his studio. He creates large-scale oil paintings, for inclusion in his own body of work, as well as by commission.

Enns often works en plein air, taking his paints and canvases to the shoreline, where he can feel and sense the ocean again. For the last few years, festival attendees have been given the opportunity to watch Enns paint on-location. The artist has also provided artwork for the Waimea Ocean Film Festival for a number of years, including at the festival auction.

This year, attendees can observe Christian Enns as he paints en plein air 8-11 am Jan 2-4 at the beach at Mauna Kea Beach Hotel, to gain a sense of his process. Attendees can also observe Enns 6-8:30 pm Jan 3-4 in the lobby of the Mauna Kea Beach Hotel, while he works on a large-scale oil painting.



Alaska Airlines

Excerpts reprinted with permission from Alaska Airlines 2017 Sustainability Report: We Fly Greener.

Alaska Airlines has a proud tradition of innovation in environmental performance. From our fleet to our fuel to the facilities we manage, we're always looking for ways to improve the efficiency of our operations and reduce the burden we place on the planet. With 21,500 employees, dozens of buildings and a 281-aircraft fleet, our day-to-day operations leave a significant environmental footprint. Given the impacts of our business, it is our responsibility to continuously innovate to improve the sustainability of our

flights and operations, increase our performance and protect the beautiful places we live and fly.

Reducing our impact on the environment is not only the right thing to do, it's also good for business; a sustainable approach to the way we perform, purchase and provide service creates long-term value for us, our employees and our guests. From napkins to fuel, every choice we make has an impact, so we are devoted to making choices that help preserve the health and allure of the communities we love.

REDUCING OUR AIRCRAFT EMISSIONS. FUEL USE AND EMISSIONS REMAINS OUR TOP OPPORTUNITY

We face increasing global pressure regarding carbon footprint reductions, as well as stakeholder concerns about the financial risks of carbon exposure. Consumers are concerned about the impacts of climate change and corporate customers are working to reduce carbon emissions across the life cycle of their products and in the delivery of services, including the transportation of people and goods. It also makes good business sense for us to reduce our fuel consumption and do our part to take care of our planet. All combined, these make reducing greenhouse gas (GHG) emissions a strategic priority for us.

As a member of the International Air Transport Association (IATA) and Airlines for America (A4A), we are working alongside other airlines to address the challenge of climate change. We have adopted a set of global targets to mitigate CO2 emissions from air transport and are working to meet these goals through:

- Improved technology, including the deployment of sustainable, low-carbon fuels and more efficient aircraft
- More efficient aircraft operations, including:
 - Infrastructure improvements, including modernized air traffic management systems
 - A single global market-based measure to fill the remaining emissions gap on international routes
 - At Alaska, we break our emissions reduction strategy down into three overarching categories that reflect this analogy: what we fly, how we fly and the fuel we use.

Reducing our impact on the environment is not only the right thing to do, it's also good for business; a sustainable approach to the way we perform, purchase and provide service creates long-term value for us, our employees and our guests. From napkins to fuel, every choice we make has an impact, so we are devoted to making choices that help preserve the health and allure of the communities we love.

ALASKA AIRLINES' CARBON OFFSET PROGRAM
Alaska Airlines' fleet is among the industry's most fuel-efficient. In order to further minimize our impact to the environment, Alaska partners with the Carbonfund.org Foundation to reduce the environmental impact of each flight. Purchasing carbon offsets helps to reduce the impact of each flight's CO2 emissions by investing in projects that reduce CO2 elsewhere in the U.S.

THE FUEL WE USE

In 2017, we continued to build strong foundational partnerships with industry leaders in the sustainable aviation fuels arena. We are working with the port authorities, other industry leaders, local and state government representatives, and major producers to develop the strategy for a sustainable fuels path for SeaTac, San Francisco and other airports on the West Coast. We also expanded our partnership with the Port of Seattle to define a strategic path toward a sustainable future and reduced emissions in the aviation space through the use of sustainable aviation fuels.

REDUCING WASTE FROM OUR INFLIGHT SERVICE.

Our goal: Reduce inflight waste sent to landfills by 70 percent over our 2010 baseline (lbs./passenger).

Our recycling efforts began in the late 1980s, when a grassroots team of Horizon Air employees began taking cans and bottles to their local recycling centers after their shifts. Their enthusiasm was infectious and soon employees in other locations were doing the same. Over time, their efforts became easier, as airports started offering recycling facilities onsite.

In 2006, the U.S. aviation industry was generating approximately 7.5 million pounds of waste every day, with only 20 percent making it to a recycling center, according to a study by the Natural Resources Defense Council (NRDC).

In 2007, Alaska Airlines' Green Team implemented a recycling program similar to Horizon's that applied to the airline's larger aircraft operation. Starting small, with only newspaper

and cans, it grew into a consistent commingled process—to include plastic, paper, aluminum and glass—and it was implemented across several diverse geographical locations. This is the process in place today on each and every one of Alaska Air Group flights. Intrinsically, part of our West Coast focus (where sorting recyclables has been an institution for years), offers inflight recycling as one way we engage guests in our environmental efforts.

In addition to having the most comprehensive inflight recycling program of any U.S. airline, we're proud of the variety of food and beverage items that allow us to delight our guests and which continue to earn our airline accolades for customer service. We strive to strike a balance by sourcing sustainably made items and proactively pursuing recycling and other alternative methods of disposal.

Recycling is a point of pride for our flight attendants; without their hard work and dedication, our recycling efforts would not be so successful. These efforts are also supported by our Inflight Food and Beverage Department. Recycling is included in employee performance assessments and it is a measurement for our catering vendors, who follow relevant catering policies and procedures that contribute towards our goal. With landfill rates at approximately \$100 per ton on the West Coast, recycling makes good business sense for the catering vendors in charge of waste disposal.

Alaska Airlines also remains the sole domestic airline that collects compostable material, which is collected in green compost bags on each flight. Flight attendants capture several tons of coffee grounds each year, which are diverted to composting facilities instead of the landfill. We

also source napkins, cups and other service ware items that are reusable, compostable, or easy to recycle to reduce waste, lower our costs and reduce the environmental impacts caused by harvesting and processing virgin materials.

Despite the challenges, Alaska and Horizon flight attendants recycled 82 percent of newspapers, cans, plastic cups and other materials in 2017. Alaska's industry-leading, inflight recycling program means today's guests produce 54 percent less garbage per person than they did in 2010.

Veteran Flight Attendant Jan Christensen sets the recycling bar particularly high during a flight—nothing goes to waste that doesn't need to. "I'm known as a recycling guru. I love doing it," she said. "I don't want to leave a lot of garbage for the next generation."

We will pursue several other opportunities in 2018, such as reducing the footprint of our catering equipment and supplies. For example, we are investigating opportunities to reduce

plastic straw use and replace plastic stir sticks with ones made of bamboo or other more sustainable materials. Premium Class snack boxes will also be removed and guests will simply be offered a choice of snacks to streamline service and reduce the waste created by the individually wrapped boxes. We will also re-implement an inflight program to save supplies onboard—such as opened, but unused, rolls of cups—that are currently disposed of at the catering kitchens.

We anticipate individual eight-ounce waters will be substituted with bulk bottled water on Virgin America flights in fall of 2018 and we will investigate different options for bulk water packaging. Except for a small amount of plastic coming from international flights, we recycle close to 100 percent of all large water bottles used onboard.

For more information or to read the full report, please visit: www.flysustainably.com.

BRING A BOTTLE

Help us reduce inflight waste by bringing a refillable water bottle to the airport and fill it up once you're past security. If just 10% of our guests brought a pre-filled water bottle it would save 680,000 plastic bottles per year. Starting summer 2018, Alaska Airlines replaced non-recyclable, plastic stir straws and citrus picks - we used 22 million last year - with sustainable, marine-friendly alternatives on all domestic and international flights, as well as in Alaska's lounges across the country.



Artwork by Sophie Twigg-Smith Teururai

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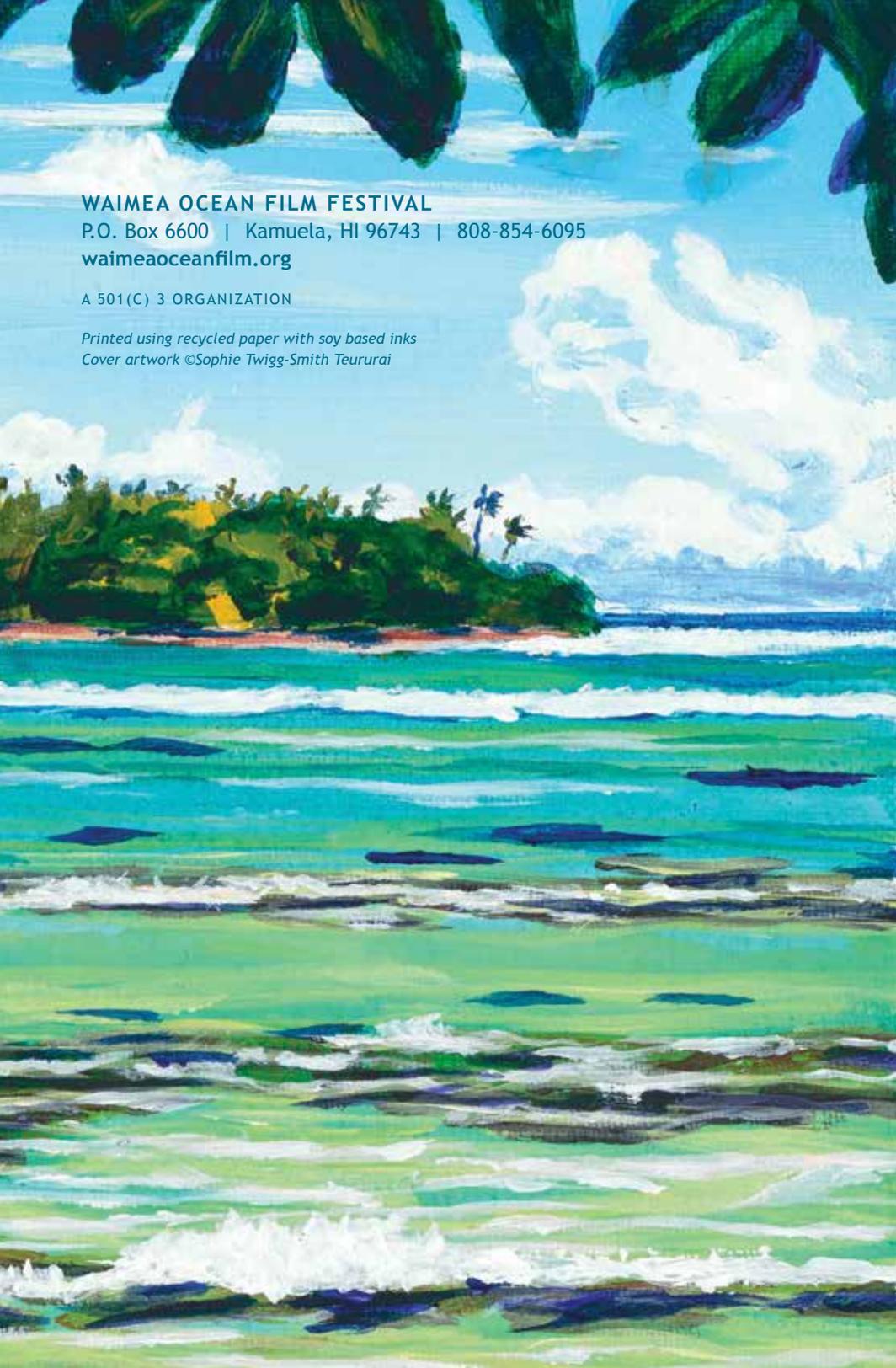
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