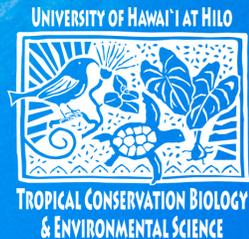


TCBES  
SYMPOSIUM  
**PROGRAM**

**I ulu no ka lālā i ke kumu.**  
*The branches grow because of the trunk.*



**APRIL 28 & 29**

9:00 am – 4:30 pm  
virtual

To register visit:  
[tcbes.uhh.hawaii.edu/symposium](http://tcbes.uhh.hawaii.edu/symposium)

The TCBES program in collaboration with Lā Honua  
are thrilled to present our joint  
**keynote speakers:**

# Dr. Manu Aluli Meyer

Konohiki for Kūlana o Kapolei – University of Hawai‘i, West O‘ahu

**Keynote: Thursday April 28th, 9:30–10:30 am**



## Bio:

Manu Aluli Meyer is the fifth daughter of Emma Aluli and Harry Meyer. She is part of a larger ‘ohana who hail from Mokapu, Kailua, Kamamalu, Wailuku, Hilo, Kohala and Kipahulu. Her family is dedicated to the transformation of Hawai‘i via kānaka cultural ideas with land, health, education, economics, publishing, art, law, justice, and philosophy. Dr. Aluli Meyer earned her doctorate from Harvard in 1998 thinking through Hawaiian epistemology and its role in world-wide awakening. She remains a staunch advocate of cultural agroforestry with her focus on niu, or coconuts, and has been a haku ho‘oponopono most of her adult life. Auntie Manu is now part of UH West Oahu and lives in the mauka lands of Palehua with her beloved partner, Ngahiraka Mason.

## Title:

I ulu nō ka lālā i ke kumu – I am because of you

## Abstract:

Understanding our own mō‘ike, the cultural genesis of our passions, insights and life work, is an awakening process linking us to the work of Spirit. How then do we embody contemporary principles of ‘ike kupuna? How indeed does ‘ike ‘āina teach and inspire us within our own lives? We are at the threshold of radical potential. This post-pandemic moment is perfectly poised for unusual collaborations that will give life to the noa huna of ‘auamo kuleana – collective transformation through individual excellence. I ulu nō lālā i ke kumu – I am because of you. Come, the door opens inward. Let us enter this mythic space of mutual causality together with care and kindness.

The TCBES program in collaboration with Lā Honua  
are thrilled to present our joint  
**keynote speakers:**

# Lokelani Brandt

Senior Archaeologist- ASM Affiliates

Keynote: Friday April 29th, 9:00-10:00 am



## Bio:

Born in Kailua, O'ahu and raised in Hilo and Puna, Hawai'i, Lokelani Brandt currently works as a Senior Archaeologist and Ethnographer at ASM Affiliates, an archaeological consulting firm in Hilo. Her early Hawaiian immersion education at Ke Kula Kaiapuni O Keaukaha and Nāwahītokalani'ōpu'u has made her a fluent speaker of the Hawaiian language. In 2017, she graduated with her master's degree from the Heritage Management Program at the University of Hawai'i at Hilo. Her thesis, which was oriented around building community, pulled together primary archival and secondary resources to help reveal the Hawaiian cultural history of Pi'opi'o, a traditional land division in coastal Waiākea. Although she works as a full-time archaeologist and ethnographer and is a mom of two, Lokelani has made it her life's work to continue sharing the Hawaiian cultural history of Pi'opi'o and Hilo. She currently lives in Waiākea with her 'ohana.

## Title:

Pa'a mua ke aloha: Lessons for a productive future as told in the Legend of Uweuwelekehau

## Abstract:

Traditional Hawaiian mo'olelo offer rich insights into understanding Hawai'i's ecological past. Join Lokelani Brandt in exploring the value and importance of incorporating Hawaiian mo'olelo into contemporary conservation efforts. We will spend some time journeying from Wailuku River, Hawai'i to Manā, Kaua'i as we examine the legend of Uweuwelekehau—an account filled with lessons of overcoming challenges and landscape transformation.

# Patrick Hart & Taupōuri Tangarō

University of Hawai'i at Hilo

Workshop: Thursday April 28th, 1:30–2:45 pm



## Title:

Kani Manu & Oli Kānaka, Connecting the Language of Birds and Chant

## Abstract:

Seabirds and shorebirds were the first animals to arrive in the Hawaiian islands millions of years ago, bringing with them the kani (sounds) that they have used to communicate for millenia. Later, the first forest birds arrived, and their original kani and mele (song) changed through time and as dozens of new species evolved through adaptive radiation across the archipelago. The islands were alive with the chorus of bird song ('ūle'ule'u manu) for millions of years. When the first humans arrived, they brought with them the mele and oli (chants) from their homelands, which blossomed, thrived, and evolved as they interacted with their new landscape. In this presentation, we discuss and provide examples through sound and voice of how the kani and mele of the birds informed the way that leo oli kānaka (human chanting voice) would grow and develop. We also examine parallels between the ways that the kani of the manu and the kani and leo oli of the Hawaiian people have changed more recently in time as their populations have declined, and in some cases blossomed again. Finally, we present and teach a new oli manu (bird chant) to use when entering the forest.

# Thursday April 28th

## Session 1 Schedule

9:00 am – 12:30 pm

9:00	Opening remarks and Kīpaepae	
9:30	Dr. Manu Meyer	Keynote: I ulu nō ka lālā i ke kumu – I am because of you
10:30	Break	
10:45	Amberly Pigao	Optimizing forest restoration techniques to increase species habitat and mitigate future drought: Kanakaleonui Bird Corridor
10:58	Noah Hunt	Nature's Playlist: On Shuffle
11:06	Darrian Muraoka	Understanding Human- Induced Waste Within Through Storm Water Runoff in Hilo, Hawai'i
11:19	Rachel Willard	Shell Utilization Patterns in Hawaiian Hermit Crabs: Choice or Availability?
11:27	Ihilani Kamau	Effects of stocking density and nutrient treatments on the growth of the native Hawaiian red macroalga <i>Lepe-o-hina</i> ( <i>Halymenia hawaiiiana</i> ) in culture
11:41	Lily Gavagan	Investigations of Unknown "Aio Limu" (Annelida: Polychaeta) through Microscopic Morphology and Untargeted Metabolomics via LCMS
11:49	Nikola Rodriguez	How will mass bleaching events affect the prevalence of <i>ciguatera</i> on Hawaiian reefs?
12:02	Nathaniel Greenwald	How many <i>Ama'ama</i> are in Kaloko?
12:10	Reed Test	<i>Pocillopora meandrina</i> (Cauliflower coral) growth rates using a selection substrates
12:30	Lunch	

# Thursday April 28th

## Session 2 Schedule

1:30 pm – 4:30 pm

1:30	Workshop with Pat and Tangarō	Kani Manu & Oli Kānaka, Connecting the Language of Birds and Chant
2:50	Ryan Liu	Human-in-the-Loop AI to advance Tropical Science Annotation and Data Collection
3:03	Zach Taylor	Reassessment of Coral Reef Fish Surveys
3:11	Carson Green	Prediction of macroalgal species composition using macroalgal abundance: case study on reefs in the Northwestern Hawaiian Islands
3:24	Olivia Jarvis	Observing Patterns in UH Hilo MOP Turtle Tagging Data Through Statistical Analysis
3:32	Walter Boger	Shifts in Carbon Exports from a Hawaiian Watershed under a Changing Climate
3:45	Sophia Smith	The Distribution and Abundance of 'Ōhi'a-Associated Ambrosia Beetles in Two Sites With Rapid 'Ōhi'a Death Outbreaks
3:58	David Russell	Creating a Climate Adaptation Plan to Benefit a Community Based Subsistence Forestry Area
4:11	Danielle Bartz	Hawaii's Hammerheads: Understanding Distributions, Nursery Habitats, and Population Trends Over Time
4:24	Skyler Chong	Recruitment Dynamics of Invasive Mullet Species in a Native Hawaiian Fishpond
4:36	Closing Remarks	

# Friday April 29th

## Session 1 Schedule

9:00 am – 12:30 pm

9:00	Opening Remarks	
9:10	Lokelani Brandt	Keynote: Pa'a mua ke aloha: Lessons for a productive future as told in the Legend of Uweuwelekehau
9:57	Tracy Wiegner	Assessment of pathogen infection risk at beaches, export to nearshore waters, and watershed source identification in Hilo, Hawai'i
10:10	Stephanie Mladinich	Pockets and pathways to invasion: Monitoring avian disease-carrying mosquitoes in the face of climate change
10:23	Emma Stierhoff	Mingling with (Avian) Malaria
10:31	Drew Curley	Impacts of the global COVID-19 pandemic and associated lockdowns on the Hawaiian nearshore noncommercial fishery
10:44	Hannah Hartman	Laboratory to Landscape: Addressing contamination of South O'ahu's Moanalua-Waimalu aquifer by the U.S. Navy's Red Hill Bulk Fuel Storage Facility at Kapūkakī through mycoremediation
10:52	McKenna Green	Effects of Popular Shark TV Programs on Shark Conservation Efforts
11:05	Mini Keliihoomalu-Holz	Ka Mo'olelo o ka Ulu-lā'au-olohi'o ma Puna, Hawai'i -- The Story of Agroforestry in Puna, Hawai'i
11:13	Sofia Ferreira	Prediction of photogrammetry-based habitat complexity using a trait-based approach on coral reefs in Guam
11:26	Alex Spengler	Mapping a Reef in Minutes - Underwater Action Camera Photogrammetry
11:45	Awards & Closing Remarks	
12:00	Travel to Kumu'ola Workday	

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