



BOARD AND COMMISSION APPLICATION FORM

(Please print or type)

Name: Kealoha, Andrea, Kimiko
(Last) (First) (Full Middle Name)

City of Residence: Paia Island: Maui

Current Employer & Position: University of Hawaii Maui College, Director Water Quality Lab

Business Phone: _____ Business Fax: _____ Business Email (optional): andreake@hawaii.edu

Please indicate why you are interested in serving and what skills you may have to contribute:

I was born and raised in Paia, and my family has been living in Paia for 5 generations. We are a family of fisherman, and our fishing grounds extend from Hanzawa Bay to Kanaha. Therefore, I am acutely aware of the intimate connection between the health of our culture and the health of our ocean. I have a B.S in Global Environmental Sciences from UH Manoa, a M.S. in Marine Science from HPU and a PhD in Oceanography from Texas A&M. My expertise is in the impacts of human and climate change stressors on coral reef health. I am also the director of UHMC's water quality lab and in less than two years have secured over \$1 million in research and education grants that benefit our resources, community and students. I am interested in serving on this advisory board so that I can represent the voice of our community in decisions related to how our resources are managed.

Employment History:

From	To	
2019	still employed	University of Hawaii Maui College
_____	_____	_____
_____	_____	_____
_____	_____	_____

Political Affiliation: Democrat

Section 13-2(2) of the Charter, County of Maui, requires that not more than a bare majority of members of a board or commission belong to the same political party; therefore, please indicate if you are a registered/card carrying member of a political party. If not, indicate "None."

Community and Professional Organizations/Activities:

Advise numerous community and conservation groups on water quality related issues
Provides water quality education to high school after school program (Kaehu) that
benefits Native Hawaiian students

Previous County Experience (employment or board member):

none

Educational Background:

BS Environmental Science, MS Marine Science, PhD Oceanography

Consent to be Nominated and Certification of Truthfulness and Accuracy of Information:

I declare that the above statements are true and accurate to the best of my knowledge.

Signature: Andrea Kealoha Date: 8/2/21

Most board/commission appointments are subject to confirmation by the Maui County Council. Most of these positions are for five-year terms. If you are selected as a nominee, the information contained on this form will be provided to the public upon request.

Please send completed forms to **OFFICE OF THE MAYOR, 200 SOUTH HIGH STREET, WAILUKU, HAWAII 96793**; or email to Ipo.Mossman@mauicounty.gov. For further information, call 270-8211; on Lana'i, call 1-800-272-0125; on Moloka'i, call 1-800-272-0117.

Andrea Kealoha
808-283-4509
andreake@hawaii.edu

Professional Preparation

University of Hawaii at Manoa	Honolulu, HI	Global Environmental Science	B.S., 2010
Hawaii Pacific University	Honolulu, HI	Marine Science	M.S., 2014
Texas A&M University	College Station, TX	Oceanography	Ph.D., 2019

Appointments

2019-present	Water Quality Lab Director, University of Hawaii Maui College
2015-2016	Oceanography Lecturer, Texas A&M University
2014-2015	Oceanography TA, Texas A&M University
2013-2014	Pac. Islands Marine Debris Asst. Coordinator, IMSG/NOAA

Publications

Kealoha AK, Shamberger KEF, DiMarco S, Thyng K, Hetland R, Manzello DP, Slowey N, Enochs I. (2020) Surface water CO₂ variability in the Gulf of Mexico (1996-2017). *Scientific Reports*. 10(12279): doi.org/10.1038/s41598-020-68924-0

Doo SS, **Kealoha AK**, Andersson A, Cohen A, Hicks TL, Johnson ZI, Long MH, McElhany P, Mollica N, Shamberger KEF, Silbiger N, Takeshita Y, Busch DS. (2020) The challenges of detecting and attributing ocean acidification impacts on marine ecosystems. *Frontiers in Marine Science*. <https://doi.org/10.1093/icesjms/fsaa094>

Kealoha AK, Doyle SM, Shamberger KEF, Sylvan JB, Hetland RD, DiMarco SF (2019) Localized hypoxia may have caused coral reef mortality at the Flower Garden Banks. *Coral Reefs*. 39(1):119-132

Kealoha AK, Shamberger KEF, Reid EC, Davis KA, Lentz SJ, Brainard RE, Oliver TA, Rappe MS, Roark EB, Rii YM (2019) Heterotrophy of oceanic particulate organic matter elevates net ecosystem calcification. *Geophysical Research Letters*. 46(16): doi.org/10.1029/2019GL083726

Kealoha AK, Mackenzie FT, Kosaki RK, Alin SR, Winn CD (2017) Carbon system dynamics of a pristine coral reef ecosystem: French Frigate Shoals. *Aquatic Geochemistry*. 23:75-88

Kealoha AK, Kahng SE, Mackenzie FT, Alin SR, Kosaki RK, Brainard RE, Winn CD (2015) Latitudinal trends and drivers in the CO₂-carbonic acid system of Papahānaumokuākea Marine National Monument. *Aquatic Geochemistry*. 21:535-553

Grants Received

Project Title: *Mitigating impacts from environmental stressors: early response to the Chondria outbreak at Pearl and Hermes Atoll, and Hurricane Walaka impacts at French Frigate Shoals.*
Funding Organization: Papahānaumokuākea Research and Conservation Fund, NFWF
Amount Awarded: \$299,890
Period of Grant: 08/01/20-02/28/22

Project Title: *Building Environmental Resiliency Leaders*
Funding Organization: Environmental Literacy Program, NOAA
Amount Awarded: \$499,993

Period of Grant: 10/01/20-09/30/23

Project Title: *Mauka to Makai*

Funding Organization: National Institute of Food and Agriculture, USDA

Amount Awarded: \$489,234

Period of Grant: 07/01/20-06/30/22

Selected Presentations

Kealoha AK, et al. (2018) Heterotrophy of oceanic organic matter elevates net ecosystem calcification. NOAA, Honolulu, HI. *Invited seminar*

Kealoha AK, Shamberger KEF, DiMarco S, Hetland R, Doyle S, Sylvan J (2018) Chemical seawater anomalies following the 2016 EFGB localized mortality event. Oral presentation at the Flower Garden Banks Mortality Event Symposium, Galveston, TX

Kealoha AK, et al. (2018) Net Ecosystem Calcification and Oceanic Particulate Organic Matter Uptake at Kāneʻohe Bay Barrier Reef. Oral presentation at the Ocean Sciences Conference, Portland, OR.

Kealoha AK, Shamberger KEF (2016) Spatiotemporal trends in surface seawater CO₂ in the Gulf of Mexico. Poster presentation at the American Geophysical Union Conference, San Francisco, CA.

Kealoha AK, Kahng SE, Mackenzie FT, Alin SR, Kosaki RK, Winn CD (2014) Carbon system dynamics in the Papahānaumokuākea Marine National Monument. Oral presentation at the Ocean Sciences Conference, Honolulu, HI

Students Mentored

Name	Level	Degree Path	Year
Kalima, Krystal	UG	A.S., Natural Sciences	2021
Richmond, Makayla	UG	B.A.S., Sustainable Science and Management	2020
Roy, Teje	UG	B.A.S., Sustainable Science and Management	2020
Modesette, Allison	UG	A.S., Natural Sciences	2020
Palos, Dustin	UG	A.S., Natural Sciences	2019-2020

Selected Awards

Sea Grant Knauss Fellowship (declined)	2018
Chapman Research Award, TAMU	2018
NOAA Nancy Foster Scholarship	2016-2019
Wormuth Teaching Award, TAMU	2016
Texas Sea Grant Graduate Research Grant	2016
Ford Foundation Fellowship (alternate)	2016