

# HCR104

## EDU/AGL

URGING THE UNIVERSITY OF HAWAII TO  
DESIGNATE THE MAGOON RESEARCH AND  
TEACHING FACILITY SITE FOR THE UNIVERSITY OF  
HAWAII AT MANOA COLLEGE OF TROPICAL  
AGRICULTURE AND HUMAN RESOURCES.



# UNIVERSITY OF HAWAII SYSTEM

## Legislative Testimony

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Testimony Presented Before the  
Senate Committees on Education and Agriculture  
on April 20, 2012 at 1:15pm

By

Virginia Hinshaw, Chancellor

And

Vassilis Syrmos

Associate Vice Chancellor for Research & Graduate Education  
University of Hawai'i at Mānoa

HCR 104 – URGING THE UNIVERSITY OF HAWAII TO DESIGNATE THE MAGOON RESEARCH AND TEACHING FACILITY SITE FOR THE UNIVERSITY OF HAWAII AT MANOA COLLEGE OF TROPICAL AGRICULTURE AND HUMAN RESOURCES.

Chairs Tokuda and Nishihara and Members of the Committees: My name is Vassilis Syrmos and I am the Associate Vice Chancellor for Research & Graduate Education at the University of Hawai'i at Mānoa. Thank you for the opportunity to provide written testimony in strong support of each and every point of this resolution, however, I have strong reservations in the technicality of the language.

The College of Tropical Agriculture and Human Resources (CTAHR), along with the College of Engineering, are the founding colleges of the University of Hawai'i at Mānoa; a land grant institution. CTAHR has provided meaningful contributions to the state in education, training, research, extension programs and workforce development for over 100 years.

The Magoon Research Facility, like many other CTAHR facilities across the state, has served this core mission of the college for many decades. As such the University of Hawai'i at Mānoa would neither displace nor close any such facility, including the Magoon site, without ensuring that the facility is relocated by providing at least the same level, preferably better, of teaching, research, extension, and outreach experiences to the students, faculty and the community at large. The creation and success of such facilities in the University of Hawai'i at Mānoa only occurs after extensive consultation with faculty, students, and the community. Success of such programs comes through the strength and participation of our faculty and students. Therefore, any major changes to University facilities cannot be achieved without their consultation and participation.

Finally, although we are in strong support of the points of the resolution, the specific language preclude the University of Hawai'i at Mānoa to manage its assets in an autonomous and efficient manner by earmarking facilities and sites for specific disciplines on campus. In lieu of a proposed Senate legislative earmarking of \$500K for planning of an Urban Agricultural Center at Magoon, the administration is working with our consultants to conceptually incorporate such a facility during our feasibility study for that property. We recommend that the resolution is amended to reflect the strong support for CTAHR and Magoon Research Facility Site without restricting the University's asset management ability.

Thank you.



State of Hawaii  
**DEPARTMENT OF AGRICULTURE**  
1428 South King Street  
Honolulu, Hawaii 96814-2512  
Phone: (808) 973-9600 FAX: (808) 973-9613

TESTIMONY OF RUSSELL S. KOKUBUN  
CHAIRPERSON, BOARD OF AGRICULTURE

BEFORE THE SENATE COMMITTEES ON EDUCATION & AGRICULTURE

FRIDAY, APRIL 20, 2012  
1:15 PM  
ROOM 329

HOUSE CONCURRENT RESOLUTION NO. 104  
URGING THE UNIVERSITY OF HAWAII TO DESIGNATE THE MAGOON RESEARCH AND  
TEACHING FACILITY SITE FOR THE UNIVERSITY OF HAWAII AT MANOA COLLEGE OF  
TROPICAL AGRICULTURE AND HUMAN RESOURCES

Chairpersons Tokuda and Nishihara and Members of the Committees:

Thank you for this opportunity to provide testimony on House Concurrent Resolution No. 104. The purpose of this resolution is to secure the Magoon Research and Teaching facility for the University of Hawaii at Manoa College for CTAHR. We **strongly support** this resolution.

The University of Hawaii was established as one of the land grant institutions funded by the Morrill Acts of 1862 and 1890, which focused on the teaching of practical agriculture. This resolution urges the University to continue its longstanding mission to prepare students and provide the research necessary to support tropical agriculture.

Agriculture must be stabilized and strengthened to enable us to feed ourselves during times of emergencies, and to increase our State's economic base and economic diversity. As such, the Department of Agriculture, our Agricultural Industries, our Research Institutions,



and our private and public partnerships must combine their resources in this shared vision to be able to face the complexities of diversified export markets, increased pest pressure, and global competition. It will be critical to have CTAHR as an equal partner in this shared vision.

The long-term development of the agriculture will depend on creating and growing industries from incubator to commercial farming operations, and providing new developments for existing agriculture sectors to maintain competitiveness in the marketplace. The Magoon facility has developed and housed the orchid and anthurium germplasm used in our floriculture industry, which is currently the second largest industry behind the seed industry.

Despite loss of federal earmarks, our partners have managed to secure funding to maintain this program. It will be disappointing if the University cannot support its own college and continue its agricultural mandate.

Thank you for the opportunity to testify.



THE SENATE  
THE TWENTY-SIXTH LEGISLATURE  
REGULAR SESSION OF 2012

COMMITTEE ON EDUCATION

Senator Jill Tokuda, Chair  
Senator Michelle N. Kidani, Vice Chair

COMMITTEE ON AGRICULTURE

Senator Clarence K. Nishihara, Chair  
Senator Gilbert Kahele, Vice Chair

DATE: Friday, April 20, 2012  
TIME: 1:15 p.m.  
PLACE: Conference Room 329  
State Capitol  
415 South Beretania Street

**RE: Testimony in strong support of HCR 104**  
URGING THE UNIVERSITY OF HAWAII TO DESIGNATE THE MAGOON RESEARCH  
AND TEACHING FACILITY SITE FOR THE UNIVERSITY OF HAWAII AT MANOA  
COLLEGE OF TROPICAL AGRICULTURE AND HUMAN RESOURCES.

Aloha Chairs Tokuda and Nishihara, Vice Chairs Kidani and Kahele, and Committee Members:

The Hawaii Aquaculture and Aquaponics Association (HAAA), representing Hawaii's aquaculture and aquaponics industry statewide, testifies in strong support of HCR 104.

It appears that the University of Hawaii administration has lost sight of the fact that the University is a Land Grant institution whose founding purpose is to support agricultural research, education, and extension in Hawaii, and whose founding college was the College of Agriculture and Mechanic Arts. The entire Magoon Research and Teaching Facility was purchased with Land Grant College funds. The 1967 UH Long Range Development Plan designates the Magoon Facility to the College of Tropical Agriculture and Human Resources (CTAHR) and is still the governing document for this site. The USDA Fruitfly Facility was leased from CTAHR.

Over \$4M has been spent to renovate the Magoon buildings and greenhouses in recent years. These facilities provide an effective and crucial on-campus research, training and teaching opportunities for students, faculty, and the community. CTAHR has operated these facilities for over 40 years. They are currently used by 24 CTAHR classes and research on plant propagation of Anthuriums and Dendrobiums, for turn grass management, integrated pest management, erosion control, domestic animal anatomy, organic farm training, and most recently for expanding aquaponics research and training for both commercial farmers and families wishing to supplement their income through backyard food production.

There is currently a significant resurgence of interest in tropical agriculture and CTAHR's current enrollment is reaching an all-time high level. The tropical agriculture education, research and development, and training that takes place at these facilities provides a critical base for Hawaii's agriculture industry and the community, including for Hawaii aquaculture and aquaponics, and is in keeping with the founding purpose of this College and University. Surely the preservation and use of the Magoon facilities to support these dynamic activities are more important to Hawaii's future and our current goal of increased food self-sufficiency than construction of additional faculty housing which could be accommodated at several other locations or by the private housing sector without the need to bulldoze existing and recently renovated CTHAR research and training facilities.

The HAAA urges the passage of this important resolution and the delivery of a strong message to the UH Administration to preserve the Magoon Research and Teaching Facility for CTAHR and its intended purpose.

Thanks you for the opportunity to testify.

Sincerely,  
Ronald P. Weidenbach  
HAAA President



April 18, 2012

To: **JOINT COMMITTEE HEARING TESTIMONY**

**Senate Committee on Education**

*Senator Jill N. Tokuda, Chair*

**Senate Committee on Agriculture**

*Senator Clarence K. Nishihara, Chair*

Twenty-Sixth State Legislature

Regular Session of 2012, State of Hawai'i

LEGISLATIVE TESTIMONY IN SUPPORT OF HCR 104

Hearing Date: April 20, 2012, 1:15 pm Where: Conference Room 329

**BOARD OF DIRECTORS**

**Chairperson**

VerlieAnn-Malina-Wright,

**Secretary**

Michael W. Beasley, Esq.

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Heather K. Minton  
Hon. Vicente C. Pangelinan  
Alvin H. Pauole  
Reidar Smith

Fr: Herb Lee, Jr., Executive Director  
Pacific American Foundation

Re: **Support for HCR 104**, Relating to the Magoon Research and Teaching Facility.

Chairmen Tokuda and Nishihara, and members of the Senate Committee on Education and Committee on Agriculture: Thank you for the opportunity to testify in favor of HCR 104, which designates the Magoon Research and Teaching Facility site for the College of Tropical Agriculture and Human Resources (CTAHR). My name is Herb Lee, Jr. and I am an interested member of the community.

**ADMINISTRATION**

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Heather K. Minton

**Administrator**

Albert Wong

The Pacific American Foundation is a non-profit established in 1993 that serves native Hawaiians and Pacific Islanders in the area of education and career planning and development.

The Magoon Facility is the site of research that directly supports Hawai'i's horticulture, biofuels, sustainable farming, aquaponics, crop protection, and bioremediation. Hawai'i's agricultural businesses contribute millions of dollars to the state economy, and they rely on the contributions of CTAHR's researchers working at Magoon.

Magoon is also the site of important instruction for numerous classes for undergraduates, graduate students, and K-12 students who will be the next generation of stewards, scholars, entrepreneurs, and a strong and diversified agricultural work force for the State. Hawai'i needs to revitalize its agriculture systems, its food and fuel security, and this can only be done with an educated and experienced workforce. Magoon is a necessary part of providing that education and hands-on experience. Further, the staff of CTAHR has been strategic and resourceful partners in providing students in K-12 schools with exposure to these important career choices.

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[awong@thepaf.org](mailto:awong@thepaf.org)

Please support HCR 104 and designate Magoon to CTAHR. It will go a long way in continuing to provide these needed opportunities in the 21<sup>st</sup> century.



**Hawaii Farm Bureau**  
F E D E R A T I O N

2343 Rose Street • Honolulu, Hawaii 96819  
Phone: (808) 848-2074 • Neighbor-Islands: (800) 482-1272  
Fax: (808) 848-1921 • Email: [info@hbf.org](mailto:info@hbf.org)  
[www.hbf.org](http://www.hbf.org)

April 20, 2012

HEARING BEFORE THE  
SENATE COMMITTEE ON EDUCATION  
SENATE COMMITTEE ON AGRICULTURE

TESTIMONY ON HCR 104  
URGING THE UNIVERSITY OF HAWAII TO DESIGNATE THE MAGOON RESEARCH  
AND TEACHING FACILITY SITE FOR THE UNIVERSITY OF HAWAII AT MANOA  
COLLEGE OF TROPICAL AGRICULTURE AND HUMAN RESOURCES

Room 329  
1:15 PM

Chair Tokuda, Chair Nishihara, and Members of the Committees:

I am Dean Okimoto, President of the Hawaii Farm Bureau Federation (HFBF). Organized since 1948, the HFBF is comprised of 1,800 farm family members statewide, and serves as Hawaii's voice of agriculture to protect, advocate and advance the social, economic and educational interest of our diverse agricultural community.

HFBF is in **strong support** of HCR 104, seeking to recognize and designate the Magoon Facility as a critical facility for the University.

The competitive edge of Hawaii's farmers lies in innovation. The global marketplace makes it very difficult for the average farmer to compete with traditional products. It's the new, innovative, and original product that captures the market. The Magoon Facility has been a critical part in the development of new varieties for our floriculture industry. Where would Hawaii be without a strong floriculture industry? Hawaii's floriculture industry is much more than a nice to have crop used in bridal bouquets or table top displays. Products developed at the Magoon Facility help to stabilize the revenue base of our farmers growing flowers and foliage that can be sold as import replacements for the local market while exporting to expand not only the farmer's revenue base but contribute positively to Hawaii's economy with exports. Import replacements reduce the risk of invasive species and therefore protect our island, including the agricultural industry.

We respectfully request your strong support of this measure as an investment to Hawaii's future. Thank you for this opportunity to provide our opinion on this important matter.





Green Point Nurseries, Inc.  
www.greenpointnursery.com

Testimony for the Twenty Sixth Legislature, 2012  
State of Hawaii

Senate Committee on Agriculture  
Sen. Clarence Nishihara, Chair  
Sen. Gilbert Kahele, Vice Chair  
and

Senate Committee on Education  
Sen. Jill Tokuda, Chair  
Sn. Michelle Kidani, Vice Chair  
Friday, April 20, 2012

Regarding HCR 104  
designating the Magoon Research and Teaching Facility site for the  
College of Tropical Agriculture and Human Resources (CTAHR).

**Supporting HCR 104 Relating to the Magoon Research and Teaching Facility**

Senator Nishiara, Kahele, Tokuda and Kidani and members of the Senate Committee on Agriculture and Education: Thank you for the opportunity to testify in favor of HCR 104, which designates the Magoon Research and Teaching Facility site for the College of Tropical Agriculture and Human Resources (CTAHR).

My name is Harold T. Tanouye and I am the President of Green Point Nurseries, Inc. on the Big Island. My family is in our second generation of agribusiness, a business that produces Hawaii's cut flowers and foliage and tropical blooming plants. Our products are distributed and exported locally, nationally, and internationally. Green Point Nurseries is a charter member of the State of Hawaii's Department of Agriculture, Seal of Quality program.

Throughout the years, my company has cooperated with CTAHR to test and develop new anthurium varieties that enable our local growers to remain competitive in the global market. Development of new anthurium varieties often takes 8-14 years before the variety is released for commercial use. I am grateful for the assistance of CTAHR scholars working at the Magoon facility and look forward to collaborating with them for many years to come.

As a businessperson, I am also aware of how difficult it is becoming to find qualified workers in the horticulture industry. The Magoon Facility is one of the few places where students can get the training to go into this important business. It is also the only facility where students' training in essential topics such as fertilizers, plant propagation, weed control, and plant disease management can be integrated with the full range of laboratories, classrooms, and facilities that the UH-Mānoa campus has to offer. I hope that the State of Hawaii comes to an understanding of the importance of investing in the next generation of agricultural leaders, as these students contribute greatly to the growth of the agriculture sector, and ultimately the economy of Hawaii.

For all these reasons I strongly encourage our legislators to Support SCR 136 and designate the Magoon Facility site to CTAHR.

Sincerely,

Harold T. Tanouye  
President/Owner  
Green Point Nurseries Inc.



# Hawaii Floriculture & Nursery Association

Testimony for the Twenty Sixth Legislature, 2012  
State of Hawaii

**Senate Committee on Agriculture**

Sen. Clarence Nishihara, Chair  
Sen. Gilbert Kahele, Vice Chair  
and

**Senate Committee on Education**

Sen. Jill Tokuda, Chair  
Sn. Michelle Kidani, Vice Chair  
Friday, April 20, 2012

Regarding HCR 104  
designating the Magoon Research and Teaching Facility site for the  
College of Tropical Agriculture and Human Resources (CTAHR).

**Supporting HCR 104 Relating to the Magoon Research and Teaching Facility**

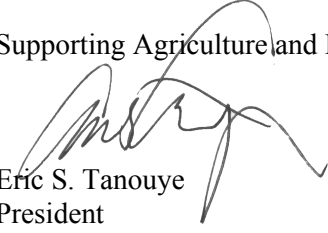
My name is Eric S. Tanouye and I am the President for the Hawaii Floriculture and Nursery Association. HFNA is a statewide umbrella organization with approximately 300 members. Our membership is made up with breeders, hybridizers, propagators, growers, shippers, wholesalers, retailers, educators, and the allied industry, which supports our efforts in agriculture.

We **support HCR 104** and keeping the Magoon Teaching and Research Facility within CTAHR and NOT using it for New Faculty Housing. CTAHR has been instrumental in supporting Hawaii's Floriculture and Nursery Industry with new anthurium varieties. New varieties allow Hawaii growers to remain competitive in the global market. Development of Anthurium Varieties is a lengthy process and takes approximately 8-14 years before a variety can be released commercially, so it is important to our industry that it continue. CTAHR also handles important Breeding and Research for orchids, protea, tropical flowers and cut foliages, blooming plants and foliage plants.

CTAHR and the Magoon Facility is also important for the training on essential topics of our industry such as fertilizers, plant propagation, weed control, etc. It is important that we continue to invest in the next generation of agriculture leaders, so that our industry can continue and help to contribute to the economy of Hawaii.

If you have any questions at this time, I would be happy to discuss them and can be reached by phone at 808-959-3535 ext 22, cell 960-1433 and email [eric@greenpointnursery.com](mailto:eric@greenpointnursery.com).

Supporting Agriculture and Hawaii,

  
Eric S. Tanouye  
President  
Hawaii Floriculture and Nursery Association



## Orchid Growers Of Hawaii

P.O. Box 4153 Hilo Hawaii 96720

Email : [info@ogoh.org](mailto:info@ogoh.org)

Website : [www.ogoh.org](http://www.ogoh.org)

Testimony Presented Before  
the Senate Committee on Agriculture  
Senator Clarence K. Nishihara, Chair  
Senator Gilbert Kahele, Vice Chair

and  
the Senate Committee on Education  
Senator Jill Tokuda, Chair  
Senator Michelle Kidani, Vice Chair

Friday, April 20, 2012

by

Thong-Teng Neo

President of Orchid Growers Of Hawaii (OGOH)

Support for HCR 104, Relating to the Magoon Research and Teaching Facility

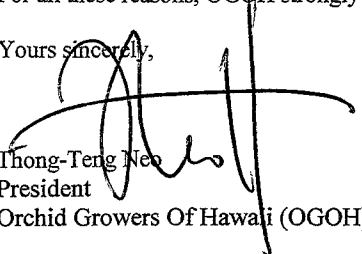
Chairmen Nishihara and Tokuda, and members of the Senate Committee on Agriculture and Committee on Education: Thank you for the opportunity to testify **in favor of HCR 104**, which designates the Magoon Research and Teaching Facility site for the College of Tropical Agriculture and Human Resources (CTAHR). My name is Thong-Teng Neo, President of Orchid Growers of Hawaii, a Statewide Orchid Association, representing Hawaii's Orchid industry.

Magoon Facility is the site of research that directly supports Hawaii's our agriculture industry especially our floriculture industry. Our floriculture industry as a whole, second largest diversified agriculture crop in Hawaii, contributes at least \$70 million per year. Throughout the years OGOH has partnered with researchers at Magoon Facility in many programs from plant pathology to insect entomology and especially UH CTAHR unique Dendrobium breeding program. This partnership that has led to increased revenues and productivity to compete in the global market. For instance, UH CTHAR breeding program has enable our orchid industry to stay ahead of our global competitors not only with new cultivars of cut flower and potted plants, but also with better yielding plants and possible disease and virus resistant plants in the future.

UH CTAHR Magoon Facility is also one of the few places that students can get the training to go into this important business, with its large economic implications for the state. It is also the only facility where students' training in such horticulturally essential topics can be integrated with the full range of laboratories, classrooms, and facilities that the UH-Mānoa campus has to offer. We hope in terms of its larger self interest that the state comes to an understanding of the importance of investing in the next generation of agricultural researchers and farmers.

For all these reasons, OGOH strongly encourage our legislators to **SUPPORT HCR 104** and designate Magoon to CTAHR.

Yours sincerely,

  
Thong-Teng Neo  
President  
Orchid Growers Of Hawaii (OGOH)



**isisHawaii**

*the power of one plus one... P.O. Box 161296, Honolulu, Hawai'i 96816 • www.isishawaii.org*

To: **JOINT COMMITTEE HEARING TESTIMONY**  
**Senate Committee on Education**, *Senator Jill N. Tokuda, Chair*  
**Senate Committee on Agriculture**, *Senator Clarence K. Nishihara, Chair*  
Twenty-Sixth State Legislature  
Regular Session of 2012, State of Hawai'i  
LEGISLATIVE TESTIMONY IN SUPPORT OF HCR 104  
Hearing Date: April 20, 2012, 1:15 pm Where: Conference Room 329

Date: April 19, 2012  
From: Lynn Fujioka, President, isisHawaii  
RE: Testimony in Support of the House Resolution 104

Honorable Chairs, Vice-Chairs and Committee Members:

Thank you for the opportunity to submit testimony **in support** of House Resolution 104. Iisis Hawaii is a Hawaii-based non-profit organization that connects educators to academia and industry professionals to develop enrichment activities that excite students about math- and science-based fields.

isisHawaii is clearly in support of the University of Hawaii's (UH) initiatives to educate and prepare students for a highly competitive 21<sup>st</sup> century marketplace. It is understood that capital improvements are part of this equation and necessary to attract qualified faculty and staff to achieve UH's academic objectives. However, any actions taken must be done in a fashion that it provides support without detriment to any of UH's current successful academic and outreach efforts. Any actions that displaces successful research and extension efforts that are already educating and preparing Hawaii's students for viable career pathways in sustainability and agritech need to be seriously reviewed. Clearly the language of House Resolution 104 seeks to make certain that CTAHR's research, education and outreach capacity and activities is maintained by keeping the Magoon Agricultural Research Station under the control of CTAHR.

In 2011, the University of Hawaii hosted the Innovation Conference in concert with the National Science Foundation Board (Jan. 13-14, Sheraton Waikiki). Renewable energy, cybersecurity, biomedical/life sciences and sustainable agriculture were featured as priority areas for workforce development initiatives that will keep Hawaii competitive in the global 21<sup>st</sup> century marketplace.

Any actions that prevents or jeopardizes existing successful programs or research facilities (such as the Magoon Ag Research facility in Manoa) that support these initiatives, then it runs contrary to the public commitment made by the State of Hawaii at the Innovation Conference.

We urge you to insure that the language of HCR No. 104 be finalized in order that existing UH programs or facilities that underwrite the development of a qualified sustainability workforce for Hawaii can continue. Thank you for the opportunity to testify.

Sincerely

Lynn N. Fujioka, President  
isisHawaii



## LANDSCAPE INDUSTRY COUNCIL OF HAWAI'I

April 18, 2012

TESTIMONY FOR HOUSE CONCURRENT RESOLUTION N.O. 104

COMMITTEE ON AGRICULTURE  
COMMITTEE ON EDUCATION

Landscape Industry Council of Hawai'i **supports** House Concurrent Resolution 104 urging the University of Hawaii to designate the Magoon Research and Teaching Facility site for the University of Hawaii at Manoa College of Tropical Agriculture and Human Resources (CTAHR).

Hawaii's landscape industry is one of the fastest growing and largest segments of the green industry with an economic impact of over \$520 million annually and full time employment of over 11,000 local landscape professionals. The landscape industry for the most part is a service-based industry, so the money stays local and has a multiplier effect on our economy.

Hawaii is the only tropical state in the nation. Many of the horticultural challenges in Hawaii are unique to Hawaii. The landscape industry throughout the years has relied on agricultural researchers at the Magoon Research and Teaching Facility site to improve tropical ornamental and native plant horticultural practices.

For these reasons, we ask for your support of HCR 104 to designate Magoon Research and Teaching Facility site to CTAHR.

Thank you for the opportunity to testify.

Chris Dacus  
President  
Landscape Industry Council of Hawai'i  
P. O. Box 22938, Honolulu, Hawai'i 96823-2938  
Chris.dacus@gmail.com

Landscape Industry Council of Hawai'i

Celebrating 26 years, LICH was formed in June 1986, the Landscape Industry Council of Hawai'i is a state wide alliance representing Hawaii's landscape trade

associations: Aloha Arborist Association, American Society of Landscape Architects Hawaii Chapter, Hawaii Association of Nurserymen, Hawaii Island Landscape Association, Hawaii Landscape and Irrigation Contractors, Hawaii Society of Urban Forestry Professionals, Kauai Landscape Industry Council, Maui Association of Landscape Professionals, Professional Grounds Management Society, Big Island Association of Nurserymen, and the Hawaii Professional Gardeners Association.

Online at [www.landscapehawaii.org](http://www.landscapehawaii.org)

Personal Testimony Presented Before:  
Senate Committee on Agriculture  
Senate Committee on Higher Education

Sen. Clarence Nishihara, Chair  
Sen. Jill Tokuda, Chair

by  
Andrew Hashimoto

Support for HCR 104, Relating to the Magoon Research and Teaching Facility

My name is Andrew Hashimoto. I am a Professor of Molecular Biosciences and Bioengineering at UH Manoa, and served as dean of the College of Tropical Agriculture and Human Resources (CTAHR) from 2000 to 2010. However, today I am providing personal testimony

I support House Continuing Resolution 104 calling for the designation of CTAHR's Magoon Research and Teaching Facility at UH Manoa as agricultural land to be protected for education and research purposes, for the following reasons:

- The Magoon Facility is indispensable for CTAHR's curriculum for training students in practical, hands-on applications of agricultural production and research.
- Its location immediately adjacent to the Manoa campus and Noelani Elementary School is the only site that allows convenient access to greenhouse and field plots for instruction and research without disrupting students' daily academic schedules. This proximity to campus saves students time, money and energy because they don't have to commute to our other experiment stations like those at Waimanalo and Pearl City.
- Magoon has unique facilities, unavailable elsewhere at UH Manoa, that support research and instruction in plant genetics, aquaculture/aquaponics, engineering and small animal surgery.
- Because access to the UH Manoa campus is restricted due to parking limitations and congestion, the Magoon Facilities is a convenient location for visitors and faculty to interact on outreach and Extension activities.
- There are other University parcels available for faculty housing, and other methods to assist faculty with temporary housing needs.

I strongly encourage your support of HCR 104 and thereby assist CTAHR in training Hawaii's future generations of farmers, nurserymen, landscape specialists, and agricultural scientists.

Mahalo for your serious consideration and support of House Continuing Resolution 104.

Personal Testimony Presented Before  
The Senate Committee on Education  
Sen. Jill N. Tokuda, Chair  
Sen. Michelle N. Kidani, Vice Chair  
and  
The Senate Committee on Agriculture  
Sen. Clarence Nishihara, Chair  
Sen. Gilbert Kahele, Vice Chair

Friday, April 20, 2012

by

J. Kenneth Grace

**Support for HCR 104, Relating to the Magoon Research and Teaching Facility**

Chair Tokuda and Chair Nishihara, and members of the Senate Committee on Education and the Senate Committee on Agriculture, thank you for the opportunity to testify in support of HCR 104 urging the University of Hawaii to designate the Magoon Research and Teaching Facility for the purposes of agricultural research, education, and outreach by CTAHR at UH Manoa.

My name is J. Kenneth Grace. I am an entomologist, and Interim Associate Dean and Director for Research, in the College of Tropical Agriculture and Human Resources at the University of Hawaii at Manoa. However, today I am providing personal testimony.

The UH Manoa Magoon research, education and outreach facility has been in use by CTAHR for approximately 40 years, and site environmental conditions are well-documented, allowing for long-term collection of comparable research results that continue to be of great value to Hawaii's agricultural producers. This includes the development of new flower varieties, breeding of disease-resistant plants, aquaculture and aquaponics research and demonstrations, and control methods for fruit flies and other serious agricultural pests. Turf trials at Magoon continue to be of value both to turf producers and tourism facilities. Moreover, the site contains uniquely constructed facilities that meet requirements for studying both plant genetics and research on small animals.

In terms of benefiting the general community, the Magoon facility has been a key research site for the development of new methods of controlling Hawaii's notorious ground termites with baits that pose no risks to people or pets. It also serves the community as a site for agricultural and aquaponics demonstrations, agricultural educational programs for public school students, and a very active plant science and gardening program with adjacent Noelani Elementary School.



In addition to the existing facilities at Magoon and well-documented soil and environmental conditions, its value lies in its immediate proximity to the UH Manoa campus. This allows the facility to be used not only for training graduate students, but for courses and course laboratories that must fit within the confines of UH class schedules. Nowhere else on campus or at outlying research sites can curricula on agricultural research and production be delivered as part of normal class activities.

The proximity of the Magoon agricultural facility to UH Manoa laboratories is also unique and of great value to both researchers and students engaged in research training. This allows integration of lab and field observations and results at a level found nowhere else.

I certainly appreciate the need for well-managed, temporary housing for newly-hired UH Manoa faculty and staff. However, I believe that many options exist for purchase, renovation, and construction of such additional temporary housing as is needed. The Magoon Research and Teaching Facility is a unique and invaluable resource for UH Manoa students and staff, Hawaii's agricultural producers, and the community. I believe that it should be clearly designated for use by UH Manoa / CTAHR for these purposes.

I both urge and thank you for your support of HCR 104; and your endorsement of the efforts of CTAHR and UH Manoa to educate Hawaii's students in the agricultural and landscape trades and sciences, to continue productive research to strengthen Hawaii's economy, and to offer university resources to the community by urging the University of Hawaii to designate the Magoon facility for these purposes by the UH Manoa College of Tropical Agriculture and Human Resources.

## **UH Faculty Teaching at Magoon**

Personal Testimony Presented Before  
the House Committee on Agriculture  
Rep. Clift Tsuji, Chair  
Rep. Mark J. Hashem, Vice Chair  
and  
House Committee on Economic Revitalization & Business  
Rep. Angus L.K. McKelvey, Chair  
Rep. Isaac W. Choy, Vice Chair  
Wednesday, March 21, 2012  
by  
Kheng T. Cheah

Support for HCR 104, Relating to the Magoon Research and Teaching Facility

Chairmen Tsuji and McKelvey, and members of the House Committee on Agriculture and Committee on Economic Revitalization & Business: Thank you for the opportunity to testify in support of HCR 104, which designates the Magoon Research and Teaching Facility site for the College of Tropical Agriculture and Human Resources (CTAHR). My name is Kheng Cheah, I am an Associate Specialist, Nursery Management at UH-Mānoa. However, today I am providing personal testimony.

I support HCR 104, calling for the designation of CTAHR's Magoon Research and Teaching Facility at UH-Mānoa as agricultural land to be protected for education and research purposes. As a professor who conducts TPSS 430 Nursery Management, TPSS 351 Business Management and TPSS 440 Plant Tissue Culture at the Magoon Facility, I have direct knowledge of its value to the college and to the university.

The Magoon Facility is indispensable for training students in practical, hands-on applications of agricultural production and research. My classes are in the area of cultivating next generation of nursery, lab and business management. It is CRUCIAL that they be held at Magoon because of the facility's at Manoa where students have hands-on experience as well as test-run their business management skills.

Proximity and convenience are also key. Students often only have ten minutes to get from one class to the next, and therefore it would entirely impracticable to conduct a class in any location further from the Mānoa campus than Magoon. The next closest location for fieldwork is the college's Waimanalo station, which, besides the fact that it focuses on many different concerns than Magoon, is so far distant that to be obliged to travel there would entirely disrupt students' academic schedules.

As an educator, I deeply believe that we must understand that the needs of the students are paramount. I therefore strongly encourage our legislators to support HCR 104 and thereby assist CTAHR in fulfilling its important mandates of instruction, research, and outreach to the community.

Personal Testimony to the Senate Committee on Agriculture and Higher Education  
Friday, April 20, 2012,  
1:15 PM  
Conference Room 329  
State Capitol

**Support for HCR104, Urging UH to Designate the Magoon Research and Teaching Facility to CTAHR**

Senator Clarence K. Nishihara, Chair and Senator Gilbert Kahele, Vice Chair of the Agricultural Committee; and Senator Jill N. Tokuda, Chair and Senator Michelle N. Kidani, Vice Chair of the Education Committee and other Senate Committee members, Thank-you for the opportunity to testify today.

My name is Barbara Yee, Chair of Family and Consumer Sciences at UH Mānoa. Today I am providing personal testimony to support faculty housing in principal, however, the CTAHR Magoon Agricultural Research and Teaching Facility cannot be replaced and an alternate location must be found for faculty housing. The State of Hawaii and UHM has already invested millions of taxpayers dollars to upgrade this important Magoon agricultural research and science education facility. Magoon is ideally situated within walking distance for quick access by UHM scientists, faculty, staff, and students. As important, this facility cannot be duplicated in a cost-effective manner.

I **SUPPORT** Senate Resolution HCR 104 which calls for the designation of CTAHR's Magoon Agricultural Research and Teaching Facility at UH Manoa as agricultural land to be preserved and protected for these education and research purposes.

- The Magoon Facility is indispensable for CTAHR's curriculum in the training of students for practical, hands-on applications of agricultural production and research.
- Its location immediately adjacent to the Manoa campus and Noelani Elementary School is the only site that allows convenient access to greenhouse and field plots for instruction and research without disrupting our students' daily academic schedules.
- Magoon has unique research and teaching facilities, that is not available elsewhere at UH Manoa, such as plant genetic engineering and small animal surgery.
- It is used for Family and Youth Education, 4-H Science and STEM education youth activities, and Agricultural Education, by advancement and development of important life skills and positive youth development activities conducted by our faculty, undergraduate and graduate students

I strongly encourage our legislators to support Senate HCR 104 and thereby provide CTAHR a critical resource to train Hawaii's future generations of farmers, nurserymen, landscape specialists, and agricultural and behavioral/social scientists, as well instill a foundation for our children and youth as future citizens to understand and support the value of food sustainability and food security in our geographically isolated state.

Barbara Yee, [dragonboomer@aol.com](mailto:dragonboomer@aol.com), 4460 Puu Panini Ave. Honolulu, HI 96816

**JOINT COMMITTEE HEARING TESTIMONY**

**Senate Committee on Education**

*Senator Jill N. Tokuda, Chair*

**Senate Committee on Agriculture**

*Senator Clarence K. Nishihara, Chair*

Twenty-Sixth State Legislature  
Regular Session of 2012, State of Hawai'i

**LEGISLATIVE TESTIMONY IN SUPPORT OF HCR 104**

Hearing Date: April 20, 2012, 1:15 pm

Where: Conference Room 329

Submitted by:

Joe Blanco

April 17, 2012

Chairs Tokuda and Nishihara, Vice-Chairs Kidani and Kahele, and members of the Senate Committees on Education and Agriculture:

**I submit testimony in strong support of HCR 104.**

For over 2 decades, I have watched the College of Tropical Agriculture and Human Resources (CTAHR) experience a steady decline of support from campus and system administrators, as well as the UH Board of Regents.

As a former University of Hawaii Board of Regent and BOR chair, it is worth repeating that the UH Manoa campus has its founding roots in agriculture. The campus had a very humble beginning in 1907 as a land-grant college of agriculture and mechanic arts. In 1912, pig farms and kiawe groves surrounded Hawaii Hall, the first permanent building built on the Manoa campus. The building where the CTAHR dean's office is located was named after John Washington Gilmore, the first president of the College of Hawaii (the predecessor of the University of Hawaii at Manoa), who was the son of a farmer. President Gilmore was tasked to build Hawaii's first agriculture school.

One hundred years have passed since the establishment of the Manoa campus and during that time the CTAHR has played, and continues to play, a key role in helping government and private industry shape Hawaii's agriculture history. The College's rich history and its long tradition of public-private sector collaboration, dates back to its founding years at the Manoa

Campus. CTAHR remains focused on its founding tenets of helping diversify our economy, ensuring a sustainable environment, and building stronger families and communities.

Given the Manoa campus's founding roots in agriculture, the proposed use of the Magoon site for faculty housing is most disappointing. The University must not lose site of one of its founding tenets as a land grant college. University administrators must remain mindful of its duty to the mission of agricultural research, teaching, and ag extension services.

To encourage and stimulate more interests in agriculture and agriculture research, a working agriculture laboratory within close proximity to the UH Manoa campus, which is the University's primary research campus, is critical and paramount to CTAHR's efforts. The Magoon site currently serves that purpose. Without doubt, the proposed repurposing of the Magoon site for residential purposes will relegate the current Oahu users to conduct their teaching and research activities at other venues such as existing agricultural extension stations located in Waimanalo, Waianae, or Pearl City, and/or Windward and Leeward Community Colleges. Doing so is clearly detrimental to CTAHR and its mission. The Magoon research site is irreplaceable; I strongly encourage the Legislature to voice a clear unified view on the need for the Magoon site to remain for CTAHR's exclusively use.

Having worked in the Executive Chambers for almost 8 years, other suitable state lands could be developed for faculty housing. For example, portions of the Leahi Hospital lands, located on the slopes of Diamond Head, and the former Kapiolani Community College campus, located on the corner of Piikoi and Kapiolani, (which currently serves as a construction base yard) are attractive alternative sites. Through the governor's executive powers, any of these sites can be used for such purposes.

I served on the Board of Regents during the time the two faculty housing projects on Lowrey Avenue offering for rent and for-sale units were conceived, developed, and placed into service. The primary purpose of those developments was to provide the University with an additional recruitment tool for recently appointed tenured-track faculty. Because of resale restrictions, many of the condo units did not sell and the unsold units were taken off the market and were offered as rentals. It was NOT the board's intention for these rental units to serve as a long-term housing solution for university faculty, staff, administrator, and especially tenured faculty.

In closing, I strongly urge all members of the Committees, as well as the members of the Senate to pass this important resolution.

Personal Testimony Presented Before  
The Senate Committees on Agriculture & Education  
Sen. Clarence Nishihara, Chair – Agriculture  
Sen. Gilbert Kahele, Vice Chair – Agriculture

Sen. Jill Tokuda, Chair – Education  
Sen. Michelle Kidani, Vice Chair - Education

April 17, 2012

by  
Dr. Joseph DeFrank

Support for HCR 104, Relating to the Magoon Research and Teaching Facility.

My name is Joseph DeFrank. I have been a faculty member in the College of Tropical Agriculture and Human Resources at UH Manoa for over 28 years. However, today I am providing personal testimony

I support House Resolution HCR104 calling for the designation of CTAHR's Magoon Research and Teaching Facility at UH Manoa as agricultural land to be protected for education and research purposes. My reasons for support of this bill are personal. For last 20+ years, I have expended a large portion of time, energy and interpersonal currency to help make this facility a top flight teaching and research facility for agricultural faculty and both graduate and undergraduate course work. Until 2005, the facility suffered a long slow decline in function and image due to administrative neglect. Miraculously in 2005, the UH allocated about 4.2 million dollars to repair all the glass and shade houses and bring the head house with classroom and shower/bathroom facilities into full ADA compliance. Faculty and staff are now able to bring visiting scientists, tour groups, and students to a facility that we are all proud of and can make full use of the plant growth areas both under cover and outdoors. I also provided leadership to install 5 simulated sport turf plots for student training on turf and landscape maintenance. With our newly renovated structures and garden beds we opened our facility to the Noelani Elementary School so that our students in agricultural clubs could interact with their 1<sup>st</sup> graders and help them to appreciate the joy and importance of growing your own food.

One day last November 2011, I was informed that the UH had commissioned an assessment of 3 sites for faculty housing. Our Magoon Facility was at the top of the list for lowest cost housing construction. What was most discouraging about this assessment was that our newly renovated facility was placed at the same level of significance as a parking lot and an undeveloped hillside with a 30% slope. Clearly, the UH administrators seeking to replace the Magoon Facility with faculty housing have no regard for the research and teaching functions of this facility and no regard for the efforts that I and my fellow faculty and staff have made to develop this facility as an important physical component of CTAHR's mission to serve the agricultural industries of Hawaii.

At a time when taxpayer funds are so hard to come by and the support for agricultural research and teaching are more important now than in the past, it is heart breaking to think that the UH administration can considered destroying this facility and use the site for faculty housing. In my opinion, destroying a fully functional and newly renovated agricultural facility and replacing it with faculty housing shows poor stewardship of scarce state taxpayer funds and would be a very poor example of long range planning. Surely the UH can develop vacancies in their current faculty housing system to accommodate new faculty in the near term and develop more creative means of providing new units if needed with a public/private partnership. The rush to pave over agricultural lands on Oahu is hot topic in spring of 2012, it is truly unfortunate that the UH Administration seeks to do the same on the most valuable Ag-lands in the entire state of Hawaii. Please stop this madness by passing HRC 104. Thank you.

**JOINT COMMITTEE HEARING TESTIMONY**

**Senate Committee on Education**

*Senator Jill N. Tokuda, Chair*

**Senate Committee on Agriculture**

*Senator Clarence K. Nishihara, Chair*

Twenty-Sixth State Legislature

Regular Session of 2012, State of Hawai'i

**LEGISLATIVE TESTIMONY IN SUPPORT OF HCR 104**

Hearing Date: April 20, 2012, 1:15 pm Where: Conference Room 329

BY: Fred Lau

**Support for HCR 104, Relating to the Magoon Research and Teaching Facility**

Chairmen Tokuda and Nishihara, and members of the Senate Committee on Agriculture and Committee on Education: Thank you for the opportunity to testify in favor of HCR 104, which designates the Magoon Research and Teaching Facility site for the College of Tropical Agriculture and Human Resources (CTAHR).

My name is Fred Lau and I am the owner of Maris Garden, the largest Aquaponic producer in the State of Hawaii. We are located at 94-415 MAKAPIPI ST, directly in Mililani Town, on Oahu. Our farm broke ground in February of 2010 and our monthly production has reached approximately 3,000 pounds of lettuce and 400 pounds of fish a month. During the development and for the continued success of our farm we have and will continue to rely heavily on the contributions of CTAHR's researchers and extension faculty. I have no doubt that this particular research and extension facility will continue to play a pivotal role in the programs, outputs and impacts that CTAHR provides for the State of Hawaii.



Magoon is also the site of important instruction for numerous classes of private and public schools, undergraduates and graduate students, students who will be the next generation of stewards, agricultural scholars, entrepreneurs, business owners and workforce within the state. Hawai'i needs to revitalize its agriculture systems, its food and fuel security, and this can only be done with an educated and experienced workforce. Magoon is a necessary part of providing that education and hands-on experience.

For all these reasons I strongly encourage our legislators to support HCR 104 and designate Magoon to CTAHR.

## JOINT COMMITTEE HEARING TESTIMONY

### Senate Committee on Education

*Senator Jill N. Tokuda, Chair*

### Senate Committee on Agriculture

*Senator Clarence K. Nishihara, Chair*

Twenty-Sixth State Legislature  
Regular Session of 2012, State of Hawai'i  
LEGISLATIVE TESTIMONY IN SUPPORT OF HCR 104  
Hearing Date: April 20, 2012, 1:15 pm  
Where: Conference Room 329

Submitted by

Clyde S. Tamaru

Support for HCR 104, Relating to the Magoon Research and Teaching Facility

My name is Clyde S. Tamaru. I am an Aquaculture Specialist at UH Manoa. However, today I am providing personal testimony and am not representing the University of Hawaii.

I support House Resolution 104 calling for the designation of CTAHR's Magoon Research and Teaching Facility at UH Manoa as agricultural land to be protected for education and research purposes, for the following reasons:

- The Magoon Facility is indispensable for the College of Tropical Agriculture and Human Resources (CTAHR) curriculum for training students in practical, hands-on applications of agricultural production and research.
- Its central location in Manoa Valley and ease of access makes it also ideal for conducting hands on agricultural training, extension and outreach projects with the community in general.
- Its location immediately adjacent to the Manoa campus, Noelani Elementary School, Mi-Pacific High School and is the only site that allows convenient access to greenhouse and field plots for instruction and research without disrupting students' daily academic schedules.
- Magoon has unique facilities, unavailable elsewhere at UH Manoa, that support research and instruction in plant genetic engineering, aquaculture/aquaponics and small animal surgery.

I strongly encourage our legislators to support HR 104 and thereby assist CTAHR in training Hawaii's future generations of farmers, stewards, nurserymen, agricultural entrepreneurs, landscape specialists, and agricultural scholars.



## Erin Conner

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**From:** mailinglist@capitol.hawaii.gov  
**Sent:** Tuesday, April 17, 2012 11:05 PM  
**To:** EDU Testimony  
**Cc:** combsb@hawaii.edu  
**Subject:** Testimony for HCR104 on 4/20/2012 1:15:00 PM

Testimony for EDU/AGL 4/20/2012 1:15:00 PM HCR104

Conference room: 329  
Testifier position: Support  
Testifier will be present: No  
Submitted by: Bruce M. Combs  
Organization: Individual  
E-mail: [combsb@hawaii.edu](mailto:combsb@hawaii.edu)  
Submitted on: 4/17/2012

### Comments:

I am a classified senior pursuing a degree in Tropical Plant and Soil Science within CTAHR. Almost every TPSS class I've taken has a weekly lab, and those labs use Magoon. The students are not only expected to go to Magoon for lab but also on their own time because the crops or ornamentals we grow there need constant care and management. Also, on our own time and outside of class, we have to check on the lab experiments we run there. All of the agriculture students grow things and run experiments at Magoon, and it's easy to lose an entire semester's work if you don't keep close tabs on what you have going at Magoon. For these reasons, moving Magoon away from the Manoa campus isn't a practical solution. We can't commute to somewhere else on the island and attend our classes at Manoa too. Agriculture today is an applied science; having an easily accessible lab is absolutely essential to the education, which is why I urge you to support HCR104.

House of Representatives  
Twenty-Sixth Legislature, 2012  
State of Hawaii

March 19, 2012

RE: H.C.R. No. 104

Gentlepeople:

Our company is in the process of building a 3-acre aquaponics farm on fallow land and the only real support we have received has been from the College of Tropical Agriculture and Human Resources. Without their help we would have no hope whatsoever of success. Now we hear that the UH administration is considering transforming the Magoon Research facility into faculty housing. This would be a disaster for CTAHR as well as all the small farmers who rely upon them so heavily. We do not doubt that faculty need housing but surely other property can be found for this purpose.

We are at a critical stage in our project development and were scheduled for a systems test by CTAHR this Wednesday. But that was cancelled because the CTAHR personnel have had to cancel all appointments in order to try and save their facility. This is insane. Hawaii needs much more locally grown food - surely there can be no doubt of this. And that means we need more farms and farmers. And we farmers desperately need CTAHR. It's that simple. Please, for the sake of us all, support HCR 104 and keep CTAHR alive.

Sincerely,

John Dobovan  
VP and Secretary  
EDK LLC  
41-540 Makakalo St.  
Waimanalo, HI 96795  
808-955-0955

**JOINT COMMITTEE HEARING TESTIMONY**

**Senate Committee on Education**

*Senator Jill N. Tokuda, Chair*

**Senate Committee on Agriculture**

*Senator Clarence K. Nishihara, Chair*

Twenty-Sixth State Legislature

Regular Session of 2012, State of Hawai'i

**LEGISLATIVE TESTIMONY IN SUPPORT OF HCR 104**

Hearing Date: April 20, 2012, 1:15 pm Where: Conference Room 329

By: Sheila Cyboron

Support for HCR 104, Relating to the Magoon Research and Teaching Facility

Chairmen Tokuda and Nishihara, and members of the Senate Committee on Education and Committee on Agriculture: Thank you for the opportunity to testify in favor of HCR 104, which designates the Magoon Research and Teaching Facility site for the College of Tropical Agriculture and Human Resources (CTAHR).

My name is Sheila Cyboron and I am a science teacher and Board member of the Waikalua Loko Fishpond Preservation Society. I am providing testimony and strongly support HCR 104 for the following reasons:

Since the foundation in 1907 as a land grant college, the University of Hawaii has become a destination of choice for students and faculty that come from across the nation and the world to take advantage of UH Mānoa's unique research and educational opportunities, diverse community, nationally-ranked Division I athletics program, and beautiful landscape. Consistently ranked a "best value" among U.S. colleges and universities, UH is also noted for being:

- one of only 32 institutions in the U.S. to hold the distinction of being a land-, sea-, space-and sun-grant research institution
- UH Mānoa is ranked in the top 30 public universities in federal research funding for engineering and science and ranked 49th overall by the National Science Foundation.
- classified by the Carnegie Foundation as having "very high research activity,"
- ranked among the top 10 in the nation according to U.S. News & World Report: America's Best Graduate Schools 2012 in the Library and Information Science program, school library media specialization

Clearly UH must continue to plan and complete capital improvements necessary for the University of Hawaii to remain competitive in the 21st century. HOWEVER, during the planning there must be some assurance that capital improvements (e.g., faculty housing) are to take place where they will NOT jeopardize other UH colleges or programs such as the Magoon Agricultural Research Station located in Manoa Valley. This particular research facility plays a pivotal role in the programs, outputs and impacts that the College of Tropical Agriculture and Human Resources (CTAHR), the founding college of the University of Hawaii, provides for the State of Hawaii. Its agriculture and stewardship activities in close proximity to the UH Manoa campus and Manoa community cannot be replaced or replicated. Capital improvements should be pursued that would result in the overall improvement at the Magoon facility and thereby improve CTAHR's research, education and outreach mandates, ultimately improving the capacity of UH to fulfill its vision and mission.

In conclusion I support HCR 104 as it clearly reaffirms that UH Manoa follow its Long Range Development Plans and designate the Magoon Agricultural Research Station to remain as part of CTAHR due to its continuing importance to the students, community and State's economy.

Signature

Sheila A. Cyboron

**JOINT COMMITTEE HEARING TESTIMONY**

**Senate Committee on Education**

*Senator Jill N. Tokuda, Chair*

**Senate Committee on Agriculture**

*Senator Clarence K. Nishihara, Chair*

Twenty-Sixth State Legislature

Regular Session of 2012, State of Hawai'i

LEGISLATIVE TESTIMONY IN SUPPORT OF HCR 104

Hearing Date: April 20, 2012, 1:15 pm Where: Conference Room 329

By

Zac Hossler

Support for HCR 104, Relating to the Magoon Research and Teaching Facility

Chairmen Tokuda and Nishihara, and members of the Senate Committee on Education and Committee on Agriculture: Thank you for the opportunity to testify in favor of HCR 104, which designates the Magoon Research and Teaching Facility site for the College of Tropical Agriculture and Human Resources (CTAHR). My name is Zac Hossler and I am an interested member in the community.



I am a newly established aquaponic farmer located in Kailua Kona and one of the state's producers of aquaponically grown leafy greens. My business have benefitted directly from the research and extension efforts of the College of Tropical Agriculture and Human Resources (CTAHR). My company have partnered with researchers at CTAHR and understand that there capacity to provide the kinds of science based information that is needed for this emerging technology would be augmented with the increased capacity at Magoon Research Facility. I have been grateful for the assistance of CTAHR scholars and look forward to collaborating with those that will be based out of the Magoon facility for many years to come.

For all these reasons I strongly encourage our legislators to support HCR 104 and designate Magoon to CTAHR.

*Zachary Hosler*

Zachary Hosler

Livng Aquaponics Inc

808-896-1817

## JOINT COMMITTEE HEARING TESTIMONY

### Senate Committee on Education

*Senator Jill N. Tokuda, Chair*

### Senate Committee on Agriculture

*Senator Clarence K. Nishihara, Chair*

Twenty-Sixth State Legislature

Regular Session of 2012, State of Hawai'i

LEGISLATIVE TESTIMONY IN SUPPORT OF HCR 104

Hearing Date: April 20, 2012, 1:15 pm Where: Conference Room 329

by

Sharon Leinaala Bright

Support for HCR 104, Relating to the Magoon Research and Teaching Facility

Chairmen Tokuda and Nishihara, and members of the Senate Committee on Education and Committee on Agriculture : Thank you for the opportunity to testify in strong support of HCR 104, which designates the Magoon Research and Teaching Facility site for the College of Tropical Agriculture and Human Resources (CTAHR).

I am Sharon Leina'ala Bright, I am a native Hawaiian Health practitioner skilled in the arts of *lomilomi* and *la'au lapa'au* agriculture and healing practices. I have returned to college and obtained by AA degree from Windward Community College and am now an undergraduate student in the Hawai'inuiakea School of Hawaiian Knowledge, Kamakākūokalani Center for Hawaiian Studies. I am also a student intern in the Department of Molecular Biosciences and Bioengineering a department in CTAHR. I returned to college in order to achieve my goal of becoming a lifelong contributing team member as a teacher and learner within a positive, nurturing environment that shares Native Hawaiian values, *la'au lapa'au* agriculture and healing practices that will serve families and communities towards wellness and prosperous sustainability. To achieve that goal I have engaged myself in both the culture and science of aquaponics an emerging technology that has proven to be a suitable option for allowing the production of fish and plants in locations that would otherwise not be possible to grow things. The science based research and extension work being conducted by CTAHR's aquaculture/aquaponics research and extension program has been instrumental in my current future development. The focus of their efforts are currently turning towards the establishment of a research and extension center appropriately named, Hale Tuahine (Tuahine refers to the misty rains of Manoa) that is to be located at the decommissioned USDA Fruitfly facility. Such a center would increase the research and extension capacity of CTAHR and provide opportunities to assist a variety of stakeholders both in the private and public sectors. Likewise, the center becomes a resource for students like myself that can participate in



Figure 1. Myself with aquaponically grown *la'au lapa'au*. Photo courtesy Han Hou Magazine.

hands on training, conduct research and participate in extension and outreach activities that ultimately serve the communities of Hawaii. I was very disappointed to hear that this same area is also being considered for faculty housing and am in principal not objecting to the need for such capital improvements. However, I am very concerned that the value of the current site to CTAHR is being overlooked as there are clearly a host of other locations that housing can be located. This is not true for the kinds of activities already taking place in the area as well as for what is being planned for the future. I know how I have benefitted from what has transpired to date and would like to see the next generation of scholars and practioners also benefit with the planned expansion at Hale Tuahine. For these reasons I strongly urge for the passage of HCR 104 that will insure that CTAHR's vision and mission will be fulfilled.

Sincerely:

Sharon Leina'ala Bright

I believe the University should make students' education its highest priority. I urge you to adopt HCR 104.

**JOINT COMMITTEE HEARING TESTIMONY**  
**Senate Committee on Education**  
*Senator Jill N. Tokuda, Chair*  
**Senate Committee on Agriculture**  
*Senator Clarence K. Nishihara, Chair*  
Twenty-Sixth State Legislature  
Regular Session of 2012, State of Hawai'i  
**LEGISLATIVE TESTIMONY IN SUPPORT OF HCR 104**  
Hearing Date: April 20, 2012, 1:15 pm  
Where: Conference Room 329  
by

Heidi Ilima Ho-Lastimososa

Support for HCR 104, Relating to the Magoon Research and Teaching Facility

Chairmen Tokuda and Nishihara, and members of the Senate Committee on Agriculture and Committee on Education: Thank you for the opportunity to testify in favor of HCR 104, which designates the Magoon Research and Teaching Facility site for the College of Tropical Agriculture and Human Resources (CTAHR). My name is Heidi Ilima Ho-Lastimososa and I am the Director of God's Country Waimanalo a private non-profit association working towards empowering native Hawaiian families into becoming more self-reliant by producing their own food.

Since 2009 our families have been working with the College of Tropical Agriculture and Human Resources (CTAHR) Aquaculture/Aquaponic research and extension program in establishing aquaponic systems on Hawaiian Homesteads in Waimanalo and providing the hands on training necessary for the production of both fish and vegetable crops. From our humble beginnings of four homesteads, in 2009, being equipped and operating we are now working collaboratively on a project that should result in an additional 40 families being able to produce a substantial amount of their own produce. The Magoon Facility is the site of research and extension activities that directly supports Hawai'i's agricultural stakeholders and will house the new Hale Tuahine (Tuahine is the name of a misty rain famous in Manoa) aquaculture/aquaponics research and extension facility. It was very disappointing to hear that there are plans to place faculty housing on this very site and there are surely alternative locations that can be considered as this would greatly impact the capacity of CTAHR in providing the kinds of services that they have been, not just for our working group but for other agricultural stakeholders as well. Included with this testimony is a petition with **25 signatures** by Hawaiian Homesteaders in Waimanalo that oppose the use of this land for faculty housing.



There are strong reasons for taking this position and historically, our ancestors were totally self-reliant prior to Western contact and the first arrivals noted “for industry of cultivation and agricultural improvements they could scarcely be exceeded in any country in the world”<sup>1</sup>. Chief among their innovations to manage resources was the *ahupua‘a* concept wherein Hawaiians believed that the land, sea, clouds and all of nature had a profound interconnectedness which is why they used ALL of the resources around them to reach the desired balance in life. Hale Tuahine will be a location where research, education and outreach can focus on the utilization of all available resources that will empower stakeholders in developing and disseminating means of increasing our self-reliance in producing our own food. As important is that we are also working collaboratively with CTAHR at this facility in order to achieve a second desired outcome and that is to provide CTAHR the capacity to align itself with University of Hawaii at Manoa Strategic Outcome #1: Native Hawaiian Educational Attainment *To position the University of Hawai‘i as one of the world’s foremost indigenous-serving universities by supporting the access and success of Native Hawaiians.*<sup>2</sup> This is consistent with current efforts being undertaken by the aquaculture research and extension program utilizing aquaculture and aquaponic technology for developing STEM skills in schools and assist in improving the economic and health conditions in Hawaiian communities.

For all of these reasons, I strongly encourage our legislators to support HCR 104 and designate Magoon to CTAHR.

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<sup>1</sup> Moeller, B.B. 1967. Some Eighteenth-Century Views on Hawaiian Agriculture *Agricultural History*. Vol. 41, No. 4 (Oct., 1967), pp. 397-404

<sup>2</sup> <http://lrbpc.uhh.hawaii.edu/documents/strategicoutcomes.pdf>



As a Native Hawaiian, I oppose the building of UH faculty housing in the Manoa area, which will take away our land for the University's purposes. Keep it Hawaiian! Malama `Aina!

Mahalo!

Amel Neal  
Michael Kehohi  
Christine Kaka  
Dawn Kifue  
Dell Sam Mark R Solomon  
M. Osh  
Alli Wera  
Diana Lane  
Mary Louise H. Thomas  
Janet Baumgardner  
Janet J. K. Osh  
Dolores K. Kapa

Mahalo!

Kaile W Kaulukukui

Kaile W Kaulukukui  
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Mahalo!

Joseph K Aipa

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Mahalo!

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Mahalo!

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Mahalo!

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Mahalo!

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Mahalo!

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(808) 282-1133

Mahalo!

Clyde Aikau 41-709 Kakaina St  
Nai'manalo, HI 96795

**Mahalo!**

William D. Liu - 8083429621



Angela Lopez

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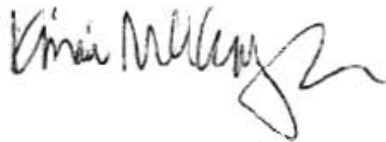
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**Mahalo!**



KINIA MCKEAGUE

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**JOINT COMMITTEE HEARING TESTIMONY**

**Senate Committee on Education**

*Senator Jill N. Tokuda, Chair*

**Senate Committee on Agriculture**

*Senator Clarence K. Nishihara, Chair*

Twenty-Sixth State Legislature

Regular Session of 2012, State of Hawai'i

LEGISLATIVE TESTIMONY IN SUPPORT OF HCR 104

Hearing Date: April 20, 2012, 1:15 pm

Where: Conference Room 329

By: Judith Dacanay

Support for HCR 104, Relating to the Magoon Research and Teaching Facility

Chairmen Tokuda and Nishihara, and members of the Senate Committee on Agriculture and Committee on Education: Thank you for the opportunity to **TESTIFY IN FAVOR OF HCR 104**, which designates the Magoon Research and Teaching Facility site for the College of Tropical Agriculture and Human Resources (CTAHR).

My name is Judith Dacanay and I am very concerned and disappointed to hear that the University of Hawaii is even considering replacing CTAHR's Magoon Field Station site with faculty housing. I'm not against increasing faculty housing, however, replacing the Magoon site would be detrimental to the College of Tropical Agriculture and Human Resources (CTAHR). Much of the scientific research that starts there extends into our community. We have benefitted first hand from CTAHR's research and extension programs.

I am an Occupational Therapist at Hawaii State Hospital. I have had the pleasure of working with Clyde Tamaru and his Windward extension CTAHR staff since March of 2010. At that time, Clyde was instrumental in launching Hawaii State Hospital's Aquaponics Work Program. He not only shared his knowledge and expertise in Aquaponics, but he generated community donations (monetary, supplies and labor) to make it happen. He organized community volunteers and assisted our staff and patient's with building our own Aquaponic's system from the ground up. Clyde and his colleagues are constantly called upon to assist us with everything from tank malfunctions to problems with our water chemistry.

Our patient's have truly benefitted from the Aquaponic's Work Program. They come to work with a sense of purpose and pride. They do everything from feeding the fish, planting, harvesting, doing water chemistry, performing tank maintenance.

Our patient's are developing work skills and confidence as they perform their daily aquaponics work tasks. They are not only developing work ethics, coping skills, communication skills, but they are also increasing their knowledge in a field that is growing rapidly. They are learning how to become more self-reliant though Aquaponics and how to conserve water. Through the experience of some fish dying, they have learned about water chemistry and the importance of maintaining a proper pH. Some are curious and want to know how the nitrogen cycle works. Some have expressed interest in building an aquaponics system once they are discharged.

Clyde has also been instrumental in helping us transition patients into the community through his wide range of community contacts. Thanks to Clyde many of our patient's have had the opportunity to visit Mari's Garden (a commercial Aquaponics Farm in Mililani). This was very inspiring and rewarding for our patients.

I am honored to be able to work with Clyde Tamara and his dedicated CTAHR staff at the Windward Community College. CTAHR'S work extends from Magoon laboratory into the community for practical application. We have benefitted first hand from this. We have participated in plant growth science experiments where our patients collect and record the data and we give it to Clyde and his staff to analyze. Clyde is not only making a difference through sharing his scientific knowledge with the community, he making a difference in the lives of patients at Hawaii State Hospital.

Please do not build faculty housing at the Magoon site.

Judy Dacanay

Aquaponics Work Program Coordinator

Occupational Therapist/Hawaii State Hospital

Personal Testimony Presented before the  
Senate Committee on Education  
Senator Jill N. Tokuda, Chair  
Senator Michelle N. Kidani, Vice Chair  
and  
Senate Committee on Agriculture  
Senator Clarence K. Nishihara, Chair  
Senator Gilbert Kahele, Vice Chair  
Friday, April 20, 2012  
by  
Dr. Douglas L. Vincent

Support for HCR 104, Urging the University of Hawai'i to designate the Magoon Research and Teaching Facility site for the University of Hawai'i at Mānoa College of Tropical Agriculture and Human Resources.

Chairs Tokuda and Nishihara, and members of the Senate Committees on Education and Agriculture: Thank you for permitting me to testify. My name is Douglas L. Vincent. I am the Department Chair of the Department of Human Nutrition, Food and Animal Sciences. I am also Chair of the Manoa Faculty Senate Committee on Administration and Budget. While I am all these things, my testimony in support of HCR 104 is my own and does not represent the University of Hawai'i.

My Department, which has over 100 Animal Science majors, would be crippled if we lost the Magoon Research and Teaching Facility. One of the buildings in CTAHR's Magoon Facility is the Woodlawn Small Animal Care facility, a small vivarium used by instructors and researchers using animals in our Department. The Small Animal Care Facility is used for poultry, aquaculture and growth physiology research. It is also used for instruction. In particular the labs there are used for the ANSC 301 Anatomy of Domestic Animals class – the only large animal laboratory on or near the Manoa Campus. The close proximity of the facility for our students, makes learning the anatomy of domestic animals much easier. The large animal surgery room permits the gathering of information and the direct hands-on instruction for our students, many of whom need this class to prepare them for application to Veterinary School. We are also working closely with the Windward Community College Veterinary Technician training program to enable their students to use the surgery for their training. The building also houses the only permitted pathological incinerator on the UH campus.

As Chair of the Manoa Faculty Senate Committee on Administration and Budget, we recently passed unanimously a resolution in favor of preserving the Magoon Research and Teaching Facility. On March 21, 2012, that same resolution was passed by the entire Manoa Faculty Senate (93% in favor) urging the UH Administration to preserve the Magoon Research and Training Facility for CTAHR's purposes. The Manoa Faculty Senate Resolution can be found at this web site:

[http://www.hawaii.edu/uhmfs/documents/2011\\_12/20120321\\_reso\\_ctahrmagoonfacility.html](http://www.hawaii.edu/uhmfs/documents/2011_12/20120321_reso_ctahrmagoonfacility.html)

What bewilders me is that the UH Administration spent over \$4.2 Million dollars (in 2005 to 2008) to renovate the Magoon Facility upgrading buildings and greenhouses, and yet at the same time funded a site selection plan for faculty housing that identified the Magoon site as one of four sites. And this year, the UH administration has funded, some say over a half-million dollars, a design/build architectural consultancy to develop plans for the site. Why would we invest over \$4.0 million in renovations to a site they planned to tear down and put up faculty housing? The administration hasn't even demonstrated the need for new faculty housing because they can't seem to manage what they do have. I don't understand.

We are trying to accomplish our core mission of teaching, research and service at a fantastic site that we've used for 40 years and to tear it down to put up housing just doesn't make sense. **Faculty housing can be put up anywhere.**

I strongly encourage our legislators to support HCR 104 and to enable CTAHR to continue its work to do world class research in support of our agricultural industries and more importantly, to ensure that we can continue to educate our students to prepare them to serve our State, our community and our animals. Thank you for permitting me to testify.

A handwritten signature in cursive script that reads "Douglas L. Vincent".

Douglas L. Vincent  
Chair, Human Nutrition, Food and Animal Sciences  
College of Tropical Agriculture and Human Resources



Personal Testimony Presented before the  
Senate Committee on Education  
Senator Jill N. Tokuda, Chair  
Senator Michelle N. Kidani, Vice Chair  
and  
Senate Committee on Agriculture  
Senator Clarence K. Nishihara  
Senator Gilbert Kahele, Vice Chair  
Friday, April 20, 2012  
by  
Sylvia Yuen, Interim Dean and Director  
College of Tropical Agriculture and Human Resources

Support for HCR 104, Urging the University of Hawai'i to designate the Magoon Research and Teaching Facility site for the University of Hawai'i at Mānoa College of Tropical Agriculture and Human Resources.

Chairs Tokuda and Nishihara, and members of the Senate Committees on Education and Agriculture: Thank you for the opportunity to testify in favor of HCR 104, which urges the University of Hawai'i to designate the Magoon Research and Teaching Facility site for the UH-Mānoa College of Tropical Agriculture and Human Resources (CTAHR). My name is Sylvia Yuen, Interim Dean and Director of the College of Tropical Agriculture and Human Resources (CTAHR), and today, I am providing personal testimony.

Rather than present the compelling case in support of HCR 104, I will yield my time to others present who can speak more eloquently on the subject. You will hear from students, the future of Hawai'i's food and agriculture system, who depend on the Magoon Facility for their education. You will hear from faculty whose research and other scholarly work would be seriously compromised without the Magoon Facility. And you will hear from the agricultural community who are dependent on the research and development work conducted at the Magoon Facility that supports their businesses, which contribute millions of dollars to the State's economy. In addition to the voices here today, there are hundreds of others not present who have indicated their support through votes on resolutions, written testimonies, and signatures on petitions.

The fundamental issue is this: Should the Magoon Facility be used for core programs or for faculty housing? We believe CTAHR and the University's mission of education, research, and service should take precedence over other activities and uses, including faculty housing. Please understand, many of us are in favor of faculty housing, but not on the Magoon site. As the testimonies make clear, the Magoon Facility is the only suitable site for CTAHR's programs. However, there are other sites on O'ahu and other strategies (e.g., rent, loan, and mortgage assistance) that can be used to secure housing for faculty. Moreover, the Executive Policy on University Housing Assistance Program indicates that suitable housing does not mean immediate proximity to the campus, whereas the work conducted at Magoon does require this.

We urge you to join us in supporting core University programs at the Magoon Facility by approving HCR 104 which designates the Magoon site for the College of Tropical Agriculture and Human Resources. Thank you for the opportunity to testify on this important measure.

Personal Testimony Presented Before the Senate Committee on Agriculture and Education  
Sen. Clarence Nishihara, Chair  
Sen. Gilbert Kahele, Vice Chair  
Senate Committee on Higher Education  
Chair: Sen. Jill Tokuda  
Vice Chair: Sen. Michelle N. Kidani  
Twenty-Sixth State Legislature  
Regular Session of 2012, State of Hawai'i  
LEGISLATIVE TESTIMONY IN SUPPORT OF HCR 104  
Hearing Date: April 20, 2012, 1:15 pm Where: Conference Room 329

BY: Brendon Lau

Support for HCR 104, Relating to the Magoon Research and Teaching Facility

Chairms Nishihara and Tokuda and Vice Chairs Kahele and Kidani : Thank you for the opportunity to testify in favor of HCR 104, which designates the Magoon Research and Teaching Facility site for the College of Tropical Agriculture and Human Resources (CTAHR).

My name is Brendon Lau and I work at Maris Garden, the largest Aquaponic producer in the State of Hawaii. We are located at 94-415 MAKAPIPI ST, directly in Mililani Town, on Oahu. Our farm broke ground in February of 2010 and our monthly production has reached approximately 3,000 pounds of lettuce and 300 pounds of fish a month. During the development and for the continued success of our farm we have and will continue to rely heavily on the contributions of CTAHR's researchers and extension faculty. I have no doubt that this particular research and extension facility will continue to play a pivotal role in the programs, outputs and impacts that CTAHR provides for the State of Hawaii.



Magoon is also the site of important instruction for numerous classes of private and public schools, undergraduates and graduate students, students who will be the next generation of stewards, agricultural scholars, entrepreneurs, business owners and workforce within the state. I myself am a recent graduate of CTAHR and am fully aware of the value of the work that is being done at Magoon. Hawai'i needs to revitalize its agriculture systems, its food and fuel security, and this can only be done with an educated and experienced workforce. Magoon is a necessary part of providing that education and hands-on experience.



For all these reasons I strongly encourage our legislators to support HCR 104 and designate Magoon to CTAHR.

**JOINT COMMITTEE HEARING TESTIMONY**

**Senate Committee on Education**

*Senator Jill N. Tokuda, Chair*

**Senate Committee on Agriculture**

*Senator Clarence K. Nishihara, Chair*

Twenty-Sixth State Legislature

Regular Session of 2012, State of Hawai'i

LEGISLATIVE TESTIMONY IN SUPPORT OF HCR 104

Hearing Date: April 20, 2012, 1:15 pm Where: Conference Room 329

by

Ken Kajihara of Kipuka Kalani'iki

Support for HCR 104, Relating to the Magoon Research and Teaching Facility

Chairmen Tokuda and Nishihara, and members of the Senate Committee on Education and Committee on Agriculture, my name is Ken Kajihara and I am a 1975 CTAHR graduate.

As part of my program of study at the University of Hawaii, I did lab work at Magoon and those formative experiences helped me in my careers in agricultural education, environmental safety, and school facilities management.

I am also a volunteer with Kipuka Kalani'iki, the Kalani High School and Kalani Complex sustainability program. As part of our K-12 sustainability initiative, we use data-driven and research-based STEM approaches to address the real-world issues of food and energy independence and green jobs preparation.

However, in order to do this with integrity, we need the resources that only Magoon and its staff can provide. The facility and personnel are accessible to urban schools and uniquely positioned for both on-site and outreach technology transfer.

I therefore strongly encourage you to support HCR 104 and designate Magoon to CTAHR.

**JOINT COMMITTEE HEARING TESTIMONY**

**Senate Committee on Education**

*Senator Jill N. Tokuda, Chair*

**Senate Committee on Agriculture**

*Senator Clarence K. Nishihara, Chair*

Twenty-Sixth State Legislature

Regular Session of 2012, State of Hawai'i

**LEGISLATIVE TESTIMONY IN SUPPORT OF HCR 104**

Hearing Date: April 20, 2012, 1:15 pm Where: Conference Room 329

By

Judy Inouye

Support for HCR 104, Relating to the Magoon Research and Teaching Facility

Chairmen Tokuda and Nishihara, and members of the Senate Committee on Education and Committee on Agriculture: Thank you for the opportunity to testify in favor of HCR 104, which designates the Magoon Research and Teaching Facility site for the College of Tropical Agriculture and Human Resources (CTAHR). My name is Judith Inouye, a retired science teacher and currently a teacher facilitator of a UH STEM Project and am an interested member of the community.

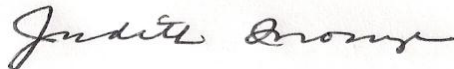
Recently it was brought to my attention that the fate of the Magoon Ag Research Center might be in jeopardy. While I support the allocation of funds for improving UH such as faculty housing, I strongly believe that it should not be done by sacrificing the Ag Research Center.

I am very concerned about our State's priorities as regards to science and engineering **RESEARCH** at a time when we are constantly reminded of the need to foster those areas to make our nation strong. Please do not reduce the priority for science and engineering research at University of Hawaii.

Throughout my career as a science teacher, I sought the expertise of countless researchers at UH who impacted me and my students greatly for field trips, science research projects, and numerous classroom activities.

More recently CTAHR researchers, Dr. Clyde Tamaru, Dr. Samir Khanal, Dr. Jon Paul Bingham, Dr. D Borthakur have been instrumental in sharing their research and their research facilities with groups of teachers interested in improving their STEM Curriculum. They are impacting teachers and students in our State.

I am looking forward to the new Hale Tuahine facility as another resource for teachers in our State. Teachers and students learn a great deal from visiting a research site. Recent national statistics are indicating that Hawaii's science teachers need support from all who can improve their curriculum. The Magoon Ag Research Facility can provide this kind of support.



Judith Inouye

Personal Testimony submitted to:  
The Senate Committee on Education,  
Senator Jill N. Tokuda, Chair and  
Michelle N. Kidani, Vice Chair and

The Senate Committee on Agriculture,  
Senator Clarence K. Nishihara, Chair and  
Senator Gilbert Kahele, Vice Chair

Friday April 20, 2012

by  
Norman Nagata

45 Kai Place, Paia, HI 96779

Support for HCR 104, Relating to the Magoon Research and Teaching Facility.

I am Norman M. Nagata, a resident of Paia, Maui, Hawaii. I am currently a Horticultural Extension Agent on Maui and formerly an Agricultural Researcher (on Maui and Oahu) with the University of Hawaii, College of Tropical Agriculture & Human Resources (CTAHR) for over 25 years. I have also been employed by the Hawaii Department of Agriculture on Oahu for more than 5 years as a Plant Pathologist.

I have been successful in gaining these employment opportunities due to the education that I have received at CTAHR. Most importantly, the Magoon Research Facility has been invaluable for my work towards my Masters degree. Without its greenhouses, I would not have been able to conduct the numerous experiments that were required to satisfy this requirement. Having such a facility nearby and within walking distance from campus, makes it very convenient for students to diligently monitor their research projects as part of their educational experience.

Later as CTAHR researcher, I have relied on these greenhouses to conduct experiments on anthurium blight and other ornamental diseases to help these industries solve their problems. In my work as a student and researcher, I have used these greenhouses to grow test plants, conduct plant inoculations to observe disease development, and evaluate disease control measures. As you can see, the Magoon Research Facility has been and still is a critical resource for students and researcher alike. For these reasons, I support SCR 136 to keep the Magoon location in the College of Tropical Agriculture and Human Resources. Thank you for this opportunity to submit my written testify.

Personal Testimony submitted to:  
The Senate Committee on Education,  
Senator Jill N. Tokuda, Chair and  
Michelle N. Kidani, Vice Chair and  
The Senate Committee on Agriculture,  
Senator Clarence K. Nishihara, Chair and  
Senator Gilbert Kahele, Vice Chair

Friday April 20, 2012

By

Jari Sugano

My name is Jari Sugano a resident of Miliani, Hawaii. I am an Extension Agent and Tenured faculty member of the University of Hawaii at Manoa, College of Tropical Agriculture and Human Resources. My responsibilities include providing education and research support services to Hawaii's commercial farmers and producers.

This is personal testimony in Support for HCR 104, pertaining to the designation of the CTAHR's Magoon Research and Teaching Facility at UH Manoa as agricultural land to be protected for education and research purposes. This does not represent the position of the University of Hawaii or of the College of Tropical Agriculture and Human Resources.

As a faculty member of UH CTAHR, I have witnessed the impact of services delivered from the College of Tropical Agriculture and Human Resources to Hawaii's producers first hand. These services have enabled growers to increase the production quality and remain sustainable agribusinesses. The guidance received from the College is based on experimental information in Hawaii and is thus extremely valuable for growers in Hawaii.

The Magoon site in Manoa Valley is important for screening small scale units of different crops, for maintaining the genotypes of papaya, anthurium, countless orchid hybrids, landscape stock plants and other fruits such as new guava cultivars, kava and cacao. Stock plants for the testing of pathogens are kept at the Magoon location and are a vital source of new information to growers, as plant pathologist test new pathogens gathered from diseased plants. Experiments to screen environmentally friendly chemicals are also conducted at that site, reducing the number that need to be field tested. Seeds are also screen for seed borne pathogens and tested for susceptibility to soil fungi in large pot tests. These types of testing helps growers to identity the pathogens in their fields.

The College needs the Magoon location for the research it is conducting on many commodities for Hawaii's growers. Having a location near campus makes small tests efficient to conduct and also economical in terms of travel time and cost. Experiments on sustainable agricultural practices are also being conducted at the Magoon site that will position our State for the future.

For these reasons, I support SCR 136 to keep the Magoon location in the College of Tropical Agriculture and Human Resources. Thank you for this opportunity to testify.

Personal Testimony Presented Before  
Senate Committee on Education  
Senator Jill N. Tokuda, Chair  
Michelle N. Kidani, Vice Chair and

The Senate Committee on Agriculture  
Senator Clarence K. Nishihara, Chair  
Senator Gilbert Kahele, Vice Chair

Friday April 20, 2012

by

Dr. Janice Y. Uchida

Support for HCR 104, Urging the University of Hawaii to Designate the Magoon Research and Teaching Facility Site for the University of Hawaii at Manoa, College of Tropical Agriculture and Human Resources.

My name is Janice Y. Uchida and I am an associate professor at UH Manoa. However, today I am providing personal testimony.

I support HCR 104 calling for the designation of CTAHR's Magoon Research and Teaching Facility at UH Manoa as agricultural land to be protected for education and research purposes, for the following reasons:

I have a research program that is focused on fungal pathogens. These parasites cause the most diseases and are especially severe in the tropics. The crops that I work on represent almost all industries in Hawaii, including papaya, taro, vegetables, orchids, landscape plants, corn, basil, koa, ohia, and nearly all plants grown in Hawaii.

My program is supported by a diverse agricultural base as we help growers to identify what is killing their crops and how to address these fungal parasites. We develop sustainable disease control programs as well as the commonly applied chemical controls to protect the plants. We also work to control invasive pathogens such as the rust that has infected ohia (*Metrosideros*) and we develop international programs to monitor the movement and introduction of these new pathogens.

I spend much time working with growers to help them identify difficult to solve disease problems. Once we identify the causal agent, we can develop strategies to control them. Thus identification of the pathogen is the key to its control.

I also teach Environmental Sciences and it is my goal to get students engaged in their environments. We take the students out to the beach to collect invasive algae and donate the over one ton of algae to the SOFT program or to elementary schools for compost development. We take student up to the Manoa Valley stream to work on cleaning up the banks and planting

native plants. We also teach students how to propagate native plants. Students love these experiences and learn scientific concepts by these activities.

The Magoon facility is crucial to my program. We need to grow all of the clean disease-free plants to enable us to inoculate with pure cultures of the suspect pathogens, to confirm the causal agent of disease. Our orchid program houses thousands of slow growing plants that are needed for pathogenicity tests and for screening new environmentally friendly fungicides. Students also walk to the greenhouses to propagate native plants and other students are engaged in independent research to begin their scholastic endeavors as young scientists. Thus, students have access to laboratory equipment (microscopes) and also a site for field testing of their pathogens. This is dual access is extremely valuable.

This site is also extremely important to the graduate students who, mostly do not have automobiles and must walk to the greenhouses. The plants they work on are grown at the Magoon location and almost all tests they conduct are done there also. The proximity of the greenhouses is tremendously important to their studies as plants must be monitored daily.

I also work with growers in sustainable agricultures and we can conduct large pot tests of biocontrol agents, compost mixes of different ingredients to test small scale units to determine how effective these treatments are, at the Magoon site. Successful treatments are then moved to the grower's field. This saves an enormous amount of time and funding, by preselecting the treatments.

The Magoon site will also house a future Master Gardeners Program which will engage the community in its activities. I am currently involved with the Instruction of Master Gardener's at the Pearl City Urban Garden Center and it has developed into a highly successful community program.

I strongly encourage our legislators to support HCR 104 and thereby assist CTAHR in training Hawaii's future generations of farmers, nurserymen, landscape specialists, and agricultural scientists. It also serves as a strong community base with its service to elementary schools and the future home of the Manoa Master Gardener's Program.

Thank you for this opportunity to submit testimony.



March 26, 2012.

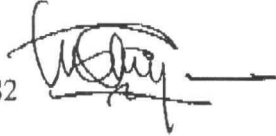
To: **Senator Jill Tokuda**

Chair, Senate Committee on Education

Fax: 808 587 7220

From.: CN Lee,

Tel.: 808 956 4882



Ref.: HCR 104, "URGING THE UNIVERSITY OF HAWAII TO DESIGNATE THE MAGOON RESEARCH AND TEACHING FACILITY SITE FOR THE UNIVERSITY OF HAWAII AT MANOA COLLEGE OF TROPICAL AGRICULTURE AND HUMAN RESOURCES."

I am a faculty member with the College of Tropical Agriculture and Human Resources (CTAHR), University of Hawaii-Manoa. I want to thank you for hearing HCR 104 and urge its passage without amendment as passed by the House for the following reasons:

- ✓ the site is important to facilitate research and training of students agriculture and environment sciences due to its proximity to campus,
- ✓ the site allows students to gain "hands-on" practical experiences in field trials,
- ✓ its proximity allow for more intensive projects which can generate data for local producers or to allow for more critical care of plants and animals during intensive data collection times,
- ✓ there are other sites that the UH can use for faculty housing including land by the KCC campus,
- ✓ **the potential venture(s) with DOE to address joint housing needs from incoming teachers in Hawaii since many schools in the DOE system have extra grounds. This idea was recently floated by the BOE for consideration. The UH only graduate a fraction (420-450) of the annual needs of teachers in the system and those new teachers from out of state face the same dilemma as incoming UH faculty on the high cost of housing, and**
- ✓ Hawaii needs to diversify its economy and agriculture is one such sector where the CTAHR had played an important role e.g. new varieties of anthuriums, orchids, fruit trees, etc. The Magoon site has been pivotal for many of such successes. These efforts are part of a sustainable economy for the state.

Because of the above reasons and many more that your committee and you will hear today, I urge your passage of HCR 104.

Thank you for your support.

Testimony in support of HCR104  
Gregg Kaneko  
Mid-Pacific Institute  
High School Science Teacher

I support HCR104 for 2 main reasons.

1. As a resident of Hawaii I am deeply concerned with issues surrounding food sustainability, preservation of native plants, and economic vigor here in this State. The research occurring at Magoon Research Station is of critical importance to address these issues, that in my opinion, will only get worse unless we (residents of Hawaii) make an active effort to solve them. I would urge the University's administration to seek alternate locations for faculty housing.

Another critical importance of the research at Magoon Research Station is that it directly addresses objectives defined in the Hawaii 2050 Sustainability Task Force. The task force was enacted by Hawaii Legislatures, supporting one is supporting both.

2. As a teacher at Mid-Pacific Institute the findings and research from the Magoon Research Station has been an essential part of my curriculum. My classes are much more engaging and rich with the knowledge from the professors utilizing the Magoon Research Station. Not only is the information unique, its local, making for a more meaningful lesson.

I urge the University of Hawaii to seek alternate locations for faculty housing as the Magoon Research Station serves a critical importance to Hawaii and its residents.



Gregg Kaneko

Personal Testimony Presented to the Senate Agriculture and Higher Education  
Committees

April 20, 2012

by

Jacob Soares

Student of Mid-Pacific Institute

Support for HCR 104, Relating to the Magoon Research and Teaching Facility

Thank you for the opportunity to testify in favor of HCR 104, which designates the Magoon Research and Teaching Facility site for the College of Tropical Agriculture and Human Resources (CTAHR). My name is Jacob Soares. I am an interested member of the community.

Magoon Facility is the site of research that directly supports Hawai'i's horticulture, biofuels, sustainable farming, aquaponics, crop protection, and bioremediation. Hawai'i's agricultural businesses contribute millions of dollars to the state economy, and they rely on the contributions of CTAHR's researchers working at Magoon.

Magoon is also the site of important instruction for numerous classes for undergraduates and grad students, students who will be the next generation of ag workers for the state. Hawai'i needs to revitalize its agriculture systems, its food and fuel security, and this can only be done with an educated and experienced workforce. Magoon is a necessary part of providing that education and hands-on experience.

As a high school student at Mid-Pacific Institute I directly benefit from the research at the Magoon Facility. The professors and researchers that work at the facility openly share their findings with our classes. We are direct beneficiaries of Magoon.

I strongly encourage our legislators to support HCR 104 and designate Magoon to CTAHR.

Mid-Pacific Institute Students:

1. Kyle Kaneko
2. Christian Okawa
3. Laurie Anne Nilo
4. Lauren Caliwag
5. Tyler Kondo
6. Gregg Kaneko
7. Bryce Yoshikawa
8. Kody Peacock
9. Skyler Tengan
10. Chandelle Kanetoku
11. Lindsey Tsutsui
12. Ginger Jacobs
13. Chelsey Naito
14. Nickolas Alarcio
15. Courtney Kemmler
16. keiki carlos
17. Lexi Takanishi
18. Kara Muraoka
19. Erica Donlon
20. Bianca Lee
21. Natsumi Mori
22. April Rogers
23. Alex Poon
24. Cole Nakao
25. Madi Miyamura

Personal Testimony Presented Before  
the Senate Committee on Agriculture  
Sen. Clarence Nishihara, Chair  
Sen. Gilbert Kahele, Vice Chair  
and  
the Senate Committee on Education  
Sen. Jill Tokuda, Chair  
Sen. Michelle Kidani, Vice Chair

April 18, 2012

by  
Jeana Cadby

Support for HCR 104, Relating to the Magoon Research and Teaching Facility

Chairman Nishihara, and members of the Senate Committee on Agriculture: Thank you for the opportunity to testify in favor of HCR 104, which designates the Magoon Research and Teaching Facility site for the College of Tropical Agriculture and Human Resources (CTAHR). I am Jeana Cadby, a student in the Department of Tropical Plant and Soil Sciences at CTAHR.

Having worked with SOFT for the past few years, I realize how lucky I have been to be involved in such a program. As an agriculture student, it is vital that we get our hands in the dirt and learn the basics of farming to compliment our official schooling as plant scientists. SOFT not only provides that possibility, but also fosters an education about our food resources and learning through doing and taking action.

Magoon is a site that I most associate with SOFT because it is so natural for SOFT to be there. As we work towards integrating the SOFT program into the university curriculum, we have already started using the site as a teaching tool and a student resource. University students in the classroom and out have a living system to study and research, first graders are inspired to explore science, and Soft volunteers can use work hours towards tangible goals such as joining the Peace Corps and Americorps.

The proximity to campus, the accessibility of resources and educators, and the practicality of the program relies heavily on the location. The program is important to me because it allows me to develop my goals of working on improving food systems and educating the public of the issues surrounding food sovereignty and local food production. I know that Soft is capable of much more, with increased support and presence. Other students too can explore their goals, developing an all inclusive college of agriculture.

This site has also prepared me very well as a candidate for a graduate degree. As a future well qualified graduate student, it is to the benefit of UH Manoa, as a prestigious option, to maintain this site.

Unlike faculty housing, which can be located anywhere on O‘ahu, the Magoon site is the only possible and the best site for my education. I believe the University should make students’ education its highest priority. I urge you to adopt HCR 104.

Personal Testimony Presented Before  
the Senate Committee on Agriculture  
Sen. Clarence Nishihara, Chair  
Sen. Gilbert Kahele, Vice Chair  
and  
the Senate Committee on Education  
Sen. Jill Tokuda, Chair  
Sen. Michelle Kidani, Vice Chair

April 20, 2012

by  
RuthEllen Klinger-Bowen

Support for HCR 104, Relating to the Magoon Research and Teaching Facility

Chairman Nishihara, and members of the Senate Committee on Agriculture: Thank you for the opportunity to testify in favor of HCR 104, which designates the Magoon Research and Teaching Facility site for the College of Tropical Agriculture and Human Resources (CTAHR). My name is RuthEllen Klinger-Bowen. I am a junior extension agent at UH-Mānoa. However, today I am providing personal testimony.

I support HCR 104, calling for the designation of CTAHR's Magoon Research and Teaching Facility at UH-Mānoa as agricultural land to be protected for education and research purposes, for the following reasons:

- The Magoon Facility is indispensable for CTAHR's curriculum for training students in practical, hands-on applications of agricultural production and research.
- Its location immediately adjacent to the Mānoa campus and Noelani Elementary School is the only site that allows convenient access to greenhouses, field plots, and small animal facility for instruction and research without disrupting students' daily academic schedules.
- Magoon has unique facilities, unavailable elsewhere at UH-Mānoa, that support research and instruction in plant genetic engineering and small animal surgery.
- Magoon is a site of community outreach and supports elementary students' STEM curriculum.

I strongly encourage our legislators to support HCR 104 and thereby assist CTAHR in training Hawai'i's future generations of farmers, nurserymen, landscape specialists, and agricultural scientists.

## Erin Conner

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**From:** mailinglist@capitol.hawaii.gov  
**Sent:** Wednesday, April 18, 2012 2:17 PM  
**To:** EDU Testimony  
**Cc:** emartinez@hawaii.rr.com  
**Subject:** Testimony for HCR104 on 4/20/2012 1:15:00 PM

Testimony for EDU/AGL 4/20/2012 1:15:00 PM HCR104

Conference room: 329  
Testifier position: Support  
Testifier will be present: No  
Submitted by: Elizabeth Martinez  
Organization: Individual  
E-mail: [emartinez@hawaii.rr.com](mailto:emartinez@hawaii.rr.com)  
Submitted on: 4/18/2012

### Comments:

RE: Testimony in strong support of HCR 104  
URGING THE UNIVERSITY OF HAWAII TO DESIGNATE THE MAGOON RESEARCH AND TEACHING FACILITY SITE FOR THE UNIVERSITY OF HAWAII AT MANOA COLLEGE OF TROPICAL AGRICULTURE AND HUMAN RESOURCES.

Aloha Chairs Tokuda and Nishihara, Vice Chairs Kidani and Kahele, and Committee Members:

This is a critical time for mapping the future food security and viability of Hawaii in increasingly challenging economic and climatic conditions. If we think this through, we must realize that the Magoon Research and Teaching Facility will be critical to house the research and training necessary for the revival of a vibrant and diverse State Agricultural system that can ensure that our people not only survive, but thrive.

As pointed out in other testimony, the University of Hawaii, a Land Grant institution was founded to support agricultural research, education, and extension in Hawaii. The entire Magoon Research and Teaching Facility was purchased with Land Grant College funds. Agricultural research, under-graduate education and extension services to farmers and home growers will all become more and more important. Witness the recent explosion of interest in aquaponics. To sacrifice this vital facility to provide temporary faculty housing would be a tragic and irresponsible mistake.

I join many others in support of passage of this resolution and the delivery of the strongest message to the UH Administration that they must preserve the Magoon Research and Teaching Facility for CTAHR and its intended purpose.

Thank you,

Elizabeth Martinez

2029 Nuuanu Ave. #1510  
Honolulu, Hawaii 96817  
April 18, 2012

Senator Jill N. Tokuda, Chair and Senator Michelle N. Kidani, Vice Chair  
Senate Committee on Education  
Senator Clarence K. Nishihara, Chair and Senator Gilbert Kahele, Vice Chair  
Senate Committee on Agriculture  
415 S. Beretania St.  
Honolulu, Hawaii 96813

Dear Chairs Tokuda and Nishihara, Vice Chairs Kidani and Kahele, and Members of the  
Committee:

I am sending this testimony to express my **strong support for HCR 104**, which would urge the University of Hawaii (UH) to keep its Magoon facility as CTAHR's primary site for agricultural and aquacultural research, teaching, and outreach. Expanded faculty housing may be necessary, but it should not be constructed at the expense of the University's research and teaching facilities.

I graduated with a master's degree in oceanography from UH in 1978, and I have earned my living in aquaculture production and consulting ever since. Recently I have become involved in aquaponics, a relatively new and efficient form of agriculture that combines the production of fish and plants in a recirculating system. I have attended workshops on topics in aquaculture and aquaponics led by CTAHR faculty, and I am always interested in hearing the results of their research. I also rely on CTAHR extension for information and advice on how to deal with the various pests and parasites that can afflict the fish and plants I am trying to raise. If the Magoon facility remains in place, it will be the site of an expanded freshwater aquaculture and aquaponics research and extension center which will directly benefit my industry.

Modern agriculture is an increasingly technical field that must incorporate the latest developments in science and technology. The Magoon facility plays a major role in educating new generations of students who will become Hawaii's future farmers, managers, and teachers. I hope, therefore, that you will act to help preserve this important institution.

Thank you for the opportunity to state my opinion on this important matter.

Sincerely,



Frederick M. Mencher



Personal Testimony Presented Before  
the Senate Committee on Agriculture  
Sen. Clarence K. Nishihara, Chair  
Sen. Gilbert Kahele, Vice Chair  
and  
Senate Committee on Education  
Sen. Jill N. Tokuda, Chair  
Sen. Michelle K. Kidani, Vice Chair  
Friday, April 20, 2012  
by  
Harry C. "Skip" Bittenbender

Support for HCR 104, Relating to the Magoon Research and Teaching Facility

Chairs Nishihara and Tokuda, Vice chairs Kahele and Kidani, and members of the Senate Committee on Agriculture and Senate Committee on Education: Thank you for the opportunity to testify in favor of HCR 104, which designates the Magoon Research and Teaching Facility site for the College of Tropical Agriculture and Human Resources (CTAHR). My name is Skip Bittenbender. I have been a professor and extension specialist in tropical agriculture at UH Manoa since 1986. However, today I am providing personal testimony as a St. Louis Heights resident.

I support House Resolution HCR 104 calling for the designation of CTAHR's Magoon Research and Teaching Facility at UH Manoa as agricultural land to be protected for education and research purposes.

The Magoon Facility is indispensable for CTAHR's curriculum for training students in practical, hands-on applications of agricultural production and research. All my graduates students have benefitted greatly from day to day interaction at Magoon with their research and teaching projects on coffee, cacao, and 'awa.

Much biological research and laboratory instruction requires daily attention that must be fitted into students class schedules. A 10 minute walk to Magoon from mid campus is feasible. Eighty minutes round trip drive to Waimanalo, our closest research station plus gas and vehicle destroys the potential of quality educational experience while increasing the cost to the student, faculty and taxpayer.

Faculty housing does help our university recruit new faculty. The impact of UHM faculty housing located on Dole street has been positive for Hokulani School enrollment. The same can be said about the newer faculty housing on Woodlawn Drive has helped Noelani School.

Should additional faculty housing be needed then we should help another public elementary school in the Moiliili community without destroying an important part of the University. Our

administration should seek partnerships with the major land owners in Moiliili to develop faculty housing.

I strongly encourage our legislators to support HCR104 and thereby assist CTAHR in training Hawaii's future generations of farmers, nurserymen, landscape specialists, and agricultural scientists and Manoa residents via our interaction with the community schools.

Personal Testimony Presented Before

the Senate Committee on Education

Sen. Jill N. Tokuda, Chair, Sen. Michelle N. Kidani, Vice Chair

and the Senate Committee on Agriculture,

Sen. Clarence K. Nishihara, Chair and Sen. Gilbert Kahele, Vice Chair

April 20, 2012

by

Gabriel Sachter-Smith

Support for HCR 104, Relating to the Magoon Research and Teaching Facility

Chairmen Tokuda and Nishihaha, and members of the Senate Committee on Agriculture, and Committee on Education: Thank you for the opportunity to testify in favor of HCR 104, which designates the Magoon Research and Teaching Facility site for the College of Tropical Agriculture and Human Resources (CTAHR).

I am Gabriel Sachter-Smith, a student in the Department of Tropical Plant and Soil Sciences at CTAHR. I have been with the SOFT (Student Organic Farm Training) program since its foundation almost four years ago, and SOFT is currently based at Magoon. I have seen it grow and change and have taken on personal responsibility to see it reach the next level of development. We started with one acre at the Waimanalo Experiment Station, and actively maintained crops there for about three years. After a visit to student farms on the West coast in 2009, we saw the potential of what a student farm program can become and what it takes to make it happen. The two most critical components needed for a successful student farm program are centralized on-campus land, and a full time staff manager.

We already had a small vegetable plot at Magoon, but realized that if we wanted the program to grow and reach our vision of it, we would need to cut back our efforts at Waimanalo and expand our on-campus presence and capacity. Waimanalo is great for farming, but it is nearly impossible to get enough students out there at any given time to get much work done. Most of our students live on or near campus and our crops are sold on campus. We took the time spent at Waimanalo (every Saturday from 9AM to 5PM) at Waimanalo, and used it to develop our land at Magoon and expand our on-campus presence. With on-campus land, more students are able to get involved, and we are better able to care for our crops and other projects. Since re-vamping our presence at Magoon, we have seen a dramatic rise in student involvement in the program, and a much greater awareness of our program in the campus community.

There are many opportunities in the campus community which can support a student farm program, some of these include: students getting credit to learn by experience in the farm program, composting campus food wastes to use as fertilizer for crop production, utilizing the wide range of faculty expertise to implement best practices and cutting edge techniques, and sharing our produce and knowledge with the community of UH Manoa and Manoa valley residents. In order to see any of it happen though, a significant, centralized, on-campus site with agricultural facilities is required, and Magoon is that site.

Please support HCR 104 and keep the Magoon facility in the control of CTAHR so that students continue to have the opportunity to gain hands on experience in agriculture and food production.

Testimony for EDU/AGL 4/20/2012 1:15:00 PM HCR104

Conference room: 329

Testifier position: Support

Testifier will be present: No

Submitted by: Karen Kimmerle

Organization: Individual

E-mail: [islandsunorchids@gmail.com](mailto:islandsunorchids@gmail.com)

Submitted on: 4/19/2012

I am in support of HCR 104 and am urging the University of Hawaii to designate the Magoon Research and Teaching Facility for CTAHR. This research facility has been very important to the floral industry in Hawaii and needs to be continued to be used as such. My business, Island Sun Orchids has depended on the orchid seed pod part of the research done at this facility for the stock necessary to operate my business. The cut flower and potted orchid industry income is very important to the State of Hawaii and we need the help of CTAHR and the research done at this facility to continue to bring this income to our state.

**JOINT COMMITTEE HEARING TESTIMONY**

**Senate Committee on Education**

*Senator Jill N. Tokuda, Chair*

**Senate Committee on Agriculture**

*Senator Clarence K. Nishihara, Chair*

Twenty-Sixth State Legislature

Regular Session of 2012, State of Hawai'i

**LEGISLATIVE TESTIMONY IN SUPPORT OF HCR 104**

Hearing Date: April 20, 2012, 1:15 pm Where: Conference Room 329

Support for HCR 104, Relating to the Magoon Research and Teaching Facility

Chairmen Tokuda and Nishihara, and members of the Senate Committee on Education and Committee on Agriculture : Thank you for the opportunity to testify in strong support of HCR 104, which designates the Magoon Research and Teaching Facility site for the College of Tropical Agriculture and Human Resources (CTAHR).

My name is Brian Dote and I am a mobile application developer specializing in designing mobile games and apps that promote science, technology, engineering, and math (STEM) curriculums. I am providing testimony and strongly support HCR 104 and for the following reasons:

Since the foundation in 1907 as a land grant college, the University of Hawaii has since become a destination of choice for students and faculty that come from across the nation and the world to take advantage of UH Mānoa's unique research and educational opportunities, diverse community, nationally-ranked Division I athletics program, and beautiful landscape. Consistently ranked a "best value" among U.S. colleges and universities UH is also noted for being:

- one of only 32 institutions nationwide to hold the distinction of being a land-, sea-, space- and sun-grant research institution
- UH Mānoa is ranked in the top 30 public universities in federal research funding for engineering and science and ranked 49th overall by the National Science Foundation.
- classified by the Carnegie Foundation as having "very high research activity,"
- ranked among the top 10 in the nation according to *U.S. News & World Report: America's Best Graduate Schools 2012* in the Library and Information Science program school library media specialization

HOWEVER, it has also come to light that the UH Administration has focused on capital improvements (e.g., faculty housing) are to take place at the Magoon Agricultural Research Station located in Manoa Valley and this is not acceptable as it would detrimentally impact CTAHR's ability to conduct the kinds of practical and applied research and extension necessary to address our State's challenges.

I also have been a technical lead on grants promoting STEM education through use of aquaponics. The communities and students we service will be greatly impacted by the loss of this particular research facility which plays a pivotal role in the programs, outputs and impacts that the College of Tropical Agriculture and Human Resources (CTAHR), the founding college of the University of

Hawaii. Its agriculture and stewardship activities in close proximity to the UH Manoa campus and Manoa community cannot be replaced or replicated.

My children attend Noelani Elementary School where kindergarten and first graders learn gardening and basic science/ag skills. These programs are why we love Noelani and the education our children are receiving.

Capital improvements should be conducted that would result in the overall improvement at the Magoon facility and thereby improve CTAHR's research, education and outreach mandates ultimately improving the capacity of UH to fulfill its vision and mission.

In conclusion I respectfully request passage of HCR 104 with language that specifies capital improvement projects such as faculty housing be undertaken without jeopardizing core programs such as that being undertaken at the Magoon Agricultural Research Station of CTAHR.

Signature  
Brian Dote

Personal Testimony Presented Before  
the Senate Committee on Agriculture  
Sen. Clarence Nishihara, Chair  
Sen. Gilbert Kahele, Vice Chair

April 20, 2012  
by  
Bradley K. Fox

Support for HCR 104, Urging the University of Hawaii to Designate the Magoon Research and Teaching Facility for CTAHR

Chairman Nishihara, and members of the Senate Committee on Agriculture: Thank you for the opportunity to testify in favor of HCR 104, which designates the Magoon Research and Teaching Facility site for the College of Tropical Agriculture and Human Resources (CTAHR). My name is Bradley “Kai” Fox, and I am an Assistant Extension Specialist at UH-Mānoa. However, today I am providing personal testimony.

I strongly support SCR 136, calling for the designation of CTAHR’s Magoon Research and Teaching Facility at UH-Mānoa as agricultural land to be protected for education and research purposes. As an Extension Specialist who conducts research in collaboration with a number of undergraduate and graduate students, as well as workshops at the Magoon Facility, I have direct knowledge of its value to the college, university, and greater community.

The Magoon Facility is vital for training students in practical, hands-on applications of agricultural production and research. Such hands-on research activities are at the core of agricultural experimentation, and it is impossible to understand practical agriculture and the underlying scientific principles without them. My research and extension activities are in the area of aquaculture and aquaponics, and it is necessary that these activities take place at Magoon because of the facility’s close proximity to our flagship Manoa campus.

Proximity and convenience in terms of a physical location where research can be conducted for students are key. Students often only have several minutes to get from one class to the next, and therefore it would be time prohibitive to conduct a class in any location further from the Mānoa campus than Magoon. The next closest location for fieldwork is the college’s Waimanalo station, which, is so far distant that travel there is so inconvenient and disrupting to academic schedules as to make it prohibitive as an alternate research location. Indeed, our department also maintains an additional satellite freshwater aquaculture and aquaponics laboratory at Windward Community College, however, due to its distance from campus we currently have no undergraduate or graduate experiments at the site.

As an educator, I deeply believe that the needs of the students are paramount. I therefore strongly encourage our legislators to support SCR 136 and thereby assist the founding Land Grant College of UH Manoa, CTAHR, in fulfilling its important mandates of instruction, research, and outreach to the community.

Personal Testimony Presented Before  
the Senate Committee on Agriculture  
and  
the Senate Committee on Higher Education

Friday, April 20, 2012

by

**Linda C. Fox, Ph.D.**

Support for HCR 104, Urging The University of Hawaii to Designate the Magoon Research and Teaching Facility Site for the University of Hawaii at Manoa College of Tropical Agriculture and Human Resources

Members of the Senate Committee on Agriculture and Senate Committee on Higher Education: Thank you for the opportunity to testify in favor of HCR 104, which designates the Magoon Research and Teaching Facility site for the College of Tropical Agriculture and Human Resources (CTAHR). My name is **Linda C. Fox, Ph.D.** I am an interested member of the community.

Magoon Facility is the site of research that directly supports Hawai'i's horticulture, biofuels, sustainable farming, aquaponics, crop protection, and bioremediation. Hawai'i's agricultural businesses contribute millions of dollars to the state economy, and they rely on the contributions of CTAHR's researchers working at Magoon.

Magoon is also the site of important instruction for numerous classes for undergraduates and grad students, students who will be the next generation of agricultural workers for the state. Hawai'i needs to revitalize its agriculture systems, its food and fuel security, and this can only be done with an educated and experienced workforce. Magoon is a necessary part of providing that education and hands-on experience.

I strongly encourage our legislators to support HCR 104 and designate Magoon to CTAHR.



Personal Testimony Presented Before  
the Senate Committee on Agriculture  
Sen. Clarence Nishihara, Chair  
Sen. Gilbert Kahele, Vice Chair  
and  
the Senate Committee on Education  
Sen. Jill Tokuda, Chair  
Sen. Michelle Kidani, Vice Chair  
by  
Vanessa Lum

Support for HCR 104, relating to the Magoon Research and Teaching Facility.

Chairpersons Nishihara and Tokuda and members of the Senate Committees on Agriculture and Education: Mahalo for this opportunity to testify in support of HCR 104, urging the University of Hawaii Administration to adhere to and reaffirm its 1967 Long Range Development Plan, which designates the Magoon Research and Teaching Facility on Woodland Drive as a site for the express use of the College of Tropical Agriculture & Human Resources (CTAHR). I am Vanessa Lum, currently a student at Windward Community College (WCC), on an educational path leading towards a graduate degree at CTAHR, UH Manoa Campus. Additionally, I am also currently an AmeriCorps Intern at the Aquaculture & Aquaponics Research Facility presently located on State Hospital property at WCC.

By far, the best and most effective method to learn a subject or skill is through engaging as many senses of the body in the process of learning, especially with work requiring the use of the body to accomplish tasks and achieve desired outcomes. The process itself accelerates and comprehension, learning and level of understanding becomes more deeply integrated as a result. The Magoon Facility enables me to have this type of learning experience and realize my own educational goals at a much faster pace, than otherwise would be possible. I find it really unbelievable that the University would even consider replacing such a valuable teaching asset with housing, and by its actions, deny its primary mission, role and responsibility to the student!

At issue here are priorities – faculty housing, that can be located anywhere versus an Agriculture Research Facility strategically located near and close to campus that serves the needs of the student, and allowing me, when transferring there, to work on research projects and experiments between classes. Locating this facility in another location, outside the urban core, would severely limit my ability to get the hands-on experiential experience I seek!

My student needs aside, the bigger picture of why Magoon Facility is so vitally important to the community and the State of Hawaii, is its role as a resource to families and citizens alike. Urban home gardens and aquaponics in particular, allow every person and family unit to become self-sufficient through producing their own food. Having Magoon allows citizens to see firsthand, examples of how easily they can incorporate this technology into their living spaces and day-to-day activities, eat healthy and lessen their over-all dependence and expenditures on imported food. It becomes a gathering place to get questions answered, challenges addressed and ultimately helping citizens become self-sufficient in the process. I urge you to adopt HCR 104.

THE SENATE  
THE TWENTY-SIXTH LEGISLATURE  
REGULAR SESSION OF 2012

COMMITTEE ON EDUCATION

Senator Jill N. Tokuda, Chair  
Senator Michelle N. Kidani, Vice Chair

COMMITTEE ON AGRICULTURE

Senator Clarence K. Nishihara, Chair  
Senator Gilbert Kahele, Vice Chair

DATE: Friday, April 20, 2012  
TIME: 1:15 PM  
PLACE: Conference Room 312  
State Capitol  
415 South Beretania Street

Chairs Tokuda and Nishihara, Vice Chairs Kidani and Kahele and Members of the Committees, I am testifying in strong support of HCR 104 which expresses the Legislature's strong support for designating the Magoon facility a part of the College of Tropical Agriculture and Human Resources (UHCTAHR) and preserves it for future use by Manoa faculty and staff.

Previously I was Manager of the State Aquaculture Development Program and worked closely with UH researchers and the Sea Grant College Program to develop and fund research projects that would reduce costs and improve yields for existing commercial species and identify new species and systems. While since 1980 the aquaculture industry has increased over 15 fold to \$35 million, I believe greater progress was prevented by the lack of ready access by UH faculty and staff to adequate laboratory and field (e.g., large-scale ponds) facilities for research and teaching; a situation which still exists to a large some extent today.

The Magoon facility today is proving itself a valuable asset for the Manoa Campus for aquaculture and aquaponics research, education, training, and outreach. I understand the UH Administration is considering tearing down the facility to build more UH housing. I think this would be short sighted and I hope other locations might be utilized for that purpose.

If aquaculture and aquaponics are to reach their full potential to contribute to our economy and greater food security, researchers and educators need dedicated facilities to provide the critical research and teaching opportunities to continue to grow the industry.

Please support HCR 104. Thank you for the opportunity to testify

John S. Corbin MS, CFP, AICP  
President  
Aquaculture Planning & Advocacy, LLC  
Kaneohe, Hawaii  
808-239-8316  
jscorbin@aol.com

Personal Testimony Presented Before  
the Senate Committees on Agriculture  
Sen. Clarence Nishihara, Chair  
Sen. Gilbert Kahele, Vice Chair  
and  
Senate Committee on Education  
Sen. Jill Tokuda, Chair  
Sen. Michelle Kidani, Vice Chair

April 20, 2012  
by  
Miles Hakoda

Support for HCR 104, Relating to the Magoon Research and Teaching Facility

Chairman Nishihara and Chair Tokuda, and members of the Senate Committee on Agriculture and Committee on Education: Thank you for the opportunity to testify in favor of HCR 104, which designates the Magoon Research and Teaching Facility site for the College of Tropical Agriculture and Human Resources (CTAHR). My name is Miles Hakoda. I am the director of the Office of Communications Services at the College of Tropical Agriculture and Human Resources UH-Mānoa. However, today I am providing personal testimony.

I support HCR 104, calling for the designation of CTAHR's Magoon Research and Teaching Facility at UH-Mānoa as agricultural land to be protected for education and research purposes, for the following reasons:

- The Magoon Facility is indispensable for CTAHR's curriculum for training students in practical, hands-on applications of agricultural production and research.
- Its location immediately adjacent to the Mānoa campus and Noelani Elementary School is the only site that allows convenient access to greenhouses, field plots, and small animal facility for instruction and research without disrupting students' daily academic schedules.
- Magoon has unique facilities, unavailable elsewhere at UH-Mānoa, that support research and instruction in plant genetic engineering and small animal surgery.
- Magoon is a site of community outreach and supports elementary students' STEM curriculum.

I strongly encourage our legislators to support HCR 104 and thereby assist CTAHR in training Hawai'i's future generations of farmers, nurserymen, landscape specialists, and agricultural scientists.

**JOINT COMMITTEE HEARING TESTIMONY**

**Senate Committee on Education**

*Senator Jill N. Tokuda, Chair*

**Senate Committee on Agriculture**

*Senator Clarence K. Nishihara, Chair*

Twenty-Sixth State Legislature

Regular Session of 2012, State of Hawai'i

LEGISLATIVE TESTIMONY IN SUPPORT OF HCR 104

Hearing Date: April 20, 2012, 1:15 pm Where: Conference Room 329

by

**Arlene Kihara**

Program Manager

Junior Achievement of Hawaii

Support for HCR 104, Relating to the Magoon Research and Teaching Facility

Chairmen Tokuda and Nishihara, and members of the Senate Committee on Education and Committee on Agriculture:

My name is Arlene Kihara. I am the program manager of Junior Achievement of Hawaii, a non-profit organization providing financial literacy & entrepreneur programs for over 7000 public school students from grades K-12 this school year. I am submitting this online testimony supporting HCR 104, which designates the Magoon Research and Teaching Facility site for the College of Tropical Agriculture and Human Resources (CTAHR).

Magoon Facility is the site of research that directly supports Hawai'i's horticulture, biofuels, sustainable farming, aquaponics, crop protection, and bioremediation. Hawai'i's agricultural businesses contribute millions of dollars to the state economy, and they rely on the contributions of CTAHR's researchers working at Magoon.

Magoon is also the site of important instruction for numerous classes for undergraduates and grad students, students who will be the next generation of stewards, scholars, entrepreneurs, and a strong and diversified agricultural work force for the state. Hawai'i needs to revitalize its agriculture systems, its food and fuel security, and this can only be done with an educated and experienced workforce. Magoon is a necessary part of providing that education and hands-on experience.

Our public school students from K-12 have a direct benefit from the agriculture research and teaching skills developed at the site. I am currently working with teachers on the Waianae Coast, Central & Windward Oahu and business community volunteer facilitators to implement financial entrepreneurial programs integrated into aquaponics-directed science & math curriculum. This collaboration is exciting and powerful and would not be possible without the CTAHR research developed at the Magoon site.

I strongly encourage our legislators to support HCR 104 and designate Magoon to CTAHR.

MAHALO!

## Erin Conner

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**From:** Orville Baldos [obaldos@hawaii.edu]  
**Sent:** Thursday, April 19, 2012 9:35 AM  
**To:** EDU Testimony  
**Subject:** Testimony to support HCR 104

Testimony Presented Before the Senate

COMMITTEE ON EDUCATION  
Senator Jill N. Tokuda, Chair  
Senator Michelle N. Kidani, Vice-Chair

and

COMMITTEE ON AGRICULTURE  
Senator Clarence K. Nishihara, Chair  
Senator Gilbert Kahele, Vice-Chair

Friday, April 20, 2012

I fully support HCR 104, which designates the Magoon Research and Teaching Facility site for the College of Tropical Agriculture and Human Resources (CTAHR). As a PhD student at the Department of Tropical Plant and Soil Sciences (one of several departments in CTAHR), I use the Magoon Research Facility for conducting my field experiments and for preparing materials for use in the laboratory back on campus or at another research station. It is the only area within the Manoa campus where the soil is most suitable for conducting small scale field-based research. Due to its prime location and proximity to the campus and to public transportation, research experiments can be closely monitored. The facility also houses equipment (i.e. large drying ovens, seed cleaning equipment, storage facilities for spray equipment, herbicides, fertilizers) that otherwise, would not be available on-campus.

Magoon plays a pivotal role in our research to develop innovative uses of native Hawaiian plants. Our goal is to develop technologies that would utilize these plants with both sustainability and conservation in mind. The research that we are currently doing in the facility may help expand the use of native Hawaiian plants in erosion control, agricultural buffer strips, roadside re-vegetation, landscaping, forage and biofuels.

Besides its role in supporting research activities, Magoon also serves as a teaching facility for both undergraduate and graduate students.

The facility provides opportunities for hands-on experience in crop cultivation, propagation and pest management. If the facility is taken away from CTAHR, the field-based learning experience, which is fundamental in the agriculture profession, will be compromised.

Orville Baldos  
Graduate student, Tropical Plant and Soil Sciences University of Hawaii at Manoa  
[obaldos@hawaii.edu](mailto:obaldos@hawaii.edu)

--

Orville C. Baldos, MS  
PhD Student  
Department of Tropical Plant and Soil Sciences University of Hawaii at Manoa 3190 Maile Way,  
St. John 102 Honolulu, Hawaii 96822  
Phone: 808-9562225  
Email: [obaldos@hawaii.edu](mailto:obaldos@hawaii.edu)

Testimony Presented Before the Senate  
COMMITTEE ON EDUCATION  
Senator Jill N. Tokuda, Chair  
Senator Michelle N. Kidani, Vice-Chair

and

COMMITTEE ON AGRICULTURE  
Senator Clarence K. Nishihara, Chair  
Senator Gilbert Kahele, Vice-Chair

Friday, April 20, 2012  
by  
Peter Toves

Support for HCR 104, Relating to the Magoon Research and Teaching Facility

I extend my gratitude to Chairs Tokuda and Nishihara, and members of the Senate Committee on Education and Agriculture for the opportunity to testify in favor of HCR 104, urging the University of Hawaii to designate the Magoon Research and Teaching Facility site for the College of Tropical Agriculture and Human Resources (CTAHR).

My name is Peter Toves and I am a member of the staff at CTAHR and a product of the University of Hawaii at Manoa. The entirety of my work duties are directly connected to the anthurium industry in the state of Hawaii. The Hawaii floriculture and nursery industry was valued at \$75.6 million in 2010, with cut flower anthuriums contributing \$3.4 million. The anthurium breeding program was initiated in 1950 by Dr. Haruyuki Kamemoto and is an integral part of the anthurium industry today as it was several decades ago. Our program develops new varieties for growers in the state to help them keep a competitive edge in the cut flower market. Development of new cultivars is a lengthy process (up to decade or more) and any interruptions to the program will further prolong the release of new material. Shutting down the Magoon facility to build faculty housing will have negative impacts on the important work CTAHR does for the local floriculture industry.

Furthermore, beyond the anthurium breeding program, the Magoon facility provides vital instructional space for students in CTAHR. The proximity of Magoon to the main campus allows students to learn practical horticultural knowledge in conjunction with classroom instruction. There is only so much a student can learn in the classroom. The Magoon facility allows the students to apply what they are learning in a practical, hands on environment. Removal of the Magoon facility will adversely affect the quality of education CTAHR is able to provide to students by making the practical aspect of horticultural education nearly impossible to achieve.

I call upon our legislators to support HCR 104 to protect the Magoon Facility.

**TESTIMONY IN SUPPORT OF HCR 104**  
**Relating to the Magoon Research and Teaching Facility**  
Joint Hearing on Friday, April 20, 2012 at 1:15 pm  
Hawaii State Capitol, Conference Room 329

Personal Testimony by Kelvin Sewake Presented to:  
Senate Committee on Agriculture  
Senator Clarence Nishihara, Chair  
and  
House Committee on Higher Education  
Rep. Scott Nishimoto, Chair

Aloha! My name is Kelvin Sewake. I strongly support House Concurrent Resolution HCR 104 urging the UH to designate the Magoon Research and Teaching Facility site for the UH at Manoa College of Tropical Agriculture and Human Resources (CTAHR). I am currently a UH Manoa CTAHR faculty member, but I am providing this testimony personally.

I have been associated with the Magoon Facility for over 33 years in different capacities and can attest to its value. Its value as a teaching facility cannot be overstated. As an undergraduate of CTAHR, I studied plant science and crop production at Magoon strengthening my knowledge in horticultural practices. As a graduate teaching assistant, I taught many undergraduate students these very same knowledge and skills at Magoon that were taught to me there. The location for student learning is conveniently close enough to the main Manoa campus where it is very accessible. And the relevance of the facility's programs and courses taught there truly enhances student learning critical to future agriculture graduates who will contribute to our state's agriculture industry. These CTAHR students are our future for agriculture!

In my current capacity as a CTAHR County Extension Agent in Floriculture for the past 23 years, I can say that Magoon's value, specifically to the floral and nursery industry alone, is tremendous. Hawaii's Floriculture and Nursery Industry is comprised of 970 farms with a wholesale value of sales of \$75.6 million, making it the second largest agriculture industry in our state. One of the main reasons for the industry's success is due to plant breeding and other vital research that takes place at the Magoon Facility. CTAHR researchers have developed literally dozens of new flower varieties that have broad market appeal that have kept the floral industry competitive in the domestic and international marketplace. The dendrobium orchid industry in Hawaii has grown to become the large commercial industry it is today founded mostly on these UH dendrobium hybrids. Breeding of new flower varieties is still ranked among the highest priority needs which, without a strong breeding program, the floral industry would decline. Other research has focused on numerous problems associated with crop production, and results from research have often been well adopted by Hawaii's farmers, helping to make farming viable and sustainable.

As agriculture is one of the economic engines for Hawaii, we must ensure programs to support it. The Magoon Facility has proven to be one those assets that has contributed to successful agriculture and growth in the state's economy. I urge you to please support HCR 104.

Mahalo!!  
Kelvin Sewake  
Ph: 808-938-5559; Email: Gr82bfrienz@aol.com

Testimony Presented Before the Senate  
COMMITTEE ON EDUCATION  
Senator Jill N. Tokuda, Chair  
Senator Michelle N. Kidani, Vice-Chair

And

COMMITTEE ON AGRICULTURE  
Senator Clarence K. Nishihara, Chair  
Senator Gilbert Kahele, Vice-Chair

Friday, April 20, 2012  
by  
Teresita D. Amore

Support for HCR 104, Relating to the Magoon Research and Teaching Facility

Chairs Tokuda and Nishihara, and members of the Senate Committee on Education and Agriculture. Thank you for the opportunity to testify in favor of HCR 104, urging the University of Hawaii to designate the Magoon Research and Teaching Facility site for the College of Tropical Agriculture and Human Resources. My name is Teresita D. Amore. I am an Assistant Researcher at with the Department of Tropical Plant and Soil Sciences of the College of Tropical Agriculture and Human Resources at UH Mānoa. However, today I am providing personal testimony.

I support HCR 104 calling for the designation of CTAHR's Magoon Research and Teaching Facility at UH-Mānoa as agricultural land to be protected for education and research purposes. As a researcher who conducts anthurium and dendrobium orchid breeding at the Magoon Facility, I have direct knowledge of the Facility's value to the college, to the university and the local economy.

I have been employed by CTAHR's flower breeding program since 1985, initially as a graduate research assistan. In cooperation with the commercial orchid and anthurium growers associations, development of new varieties of dendrobium orchid and anthurium for the Hawaii flower and nursery industry has been undertaken at the Magoon Facility since the 1960s. To date, CTAHR produced 48 anthurium varieties and 44 dendrobium varieties, a number of which are standards in the flower industry. New varieties allow our dendrobium orchid industry, which contributed about \$5.3M in the Hawaii economy in 2010, and our anthurium industry, valued at about \$3.4M in 2010, to remain viable components of diversified agriculture.

Cultivar development takes about 6 years from germination for dendrobium, and about 9 to 16 years from germination, or 8-14 years from seedling selection, for anthurium. We have plants at different stages – seedlings to mature flowering – in our greenhouses. Disruptions such as moving greenhouses or relocation will result in major setbacks in the research, and consequently delay the release of new varieties for the industry.

I therefore strongly encourage our legislators to support HCR 104 and thereby assist CTAHR in fulfilling its important mandates of instruction, research, and outreach to the community.

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Teresita D. Amore PhD  
Assistant Researcher  
Dept. of Tropical Plant & Soil Sciences  
College of Tropical Agriculture & Human Resources  
University of Hawaii at Manoa  
3190 Maile Way  
Honolulu, HI 96822  
Voice: (808) 956-7992  
Fax: (808) 956-3894



Honolulu, April 19 2012

Testimony offered in Support of HCR104 "URGING THE UNIVERSITY OF HAWAII TO DESIGNATE THE MAGOON RESEARCH AND TEACHING FACILITY SITE FOR THE UNIVERSITY OF HAWAII AT MANOA COLLEGE OF TROPICAL AGRICULTURE AND HUMAN RESOURCES."

My Name is Russell S. Yost, Professor of Tropical Plant and Soil Science, University of Hawai'i at Manoa. My testimony is in support of the SCR136 for these reasons:

During the 35 years that I've been at the University of Hawai'i, I've graduated some 50 students with advanced degrees (M.S. and Ph.D. degrees). The use of the Magoon facilities has been integral to the development of their research capability by providing practical, hands-on training with typical plants and soils of Hawaii as well as the Pacific Basin (Marshall Islands, Mariana Islands), the Tropical World (The Philippines and SE Asia), as well as Africa (West Africa including Mali, Senegal, The Gambia and Cabo Verde; Southern Africa including Angola and Mozambique). We collect samples of plants and soils from key trouble areas within the State or regarding critical limitations to Hawaii agriculture and bring those samples of plants and soils to the Magoon facility for study, problem identification, and teaching. The students do the key experimental work but under the watchful eye of UH-CTAHR faculty, who visit the experiments daily to review progress and check so that the best of modern science is applied to study Hawai'i's issues, constraints and problems. These facilities, both the greenhouses, small portions of land outside the greenhouse area provide space for "out of doors" testing and experimentation for the betterment of the students and for the more accurate testing / experimentation to solve the agricultural problems of Hawai'i.

These facilities have played a key role in CTAHR's support of Hawai'i Agriculture in the past, currently, and are needed in the future to address the Agriculture and Self-Sufficiency issues of both today and tomorrow. With the concern about the Autonomy of the Islands with regard to food self-sufficiency, and the need for increased safety and quality assurance of our food supply, it is clear that the Magoon facilities will play an even greater role in the future of Hawai'i, the Pacific Basin it also serves, and the Tropical World that is addressed by Professors, Researchers, and Teachers in CTAHR, University of Hawai'i at Manoa.

I thank the this Committee for accepting testimony in support of this critical set of buildings, land, and environment for the edification of students and of the research and extension carried out by the College of Tropical Agriculture and Human Resources (CTAHR).

Thank you

Russell S. Yost  
Professor of Tropical Plant and Soil Science  
April 19, 2012

Testimony Presented Before the Senate  
COMMITTEE ON EDUCATION  
Senator Jill N. Tokuda, Chair  
Senator Michelle N. Kidani, Vice-Chair

and

COMMITTEE ON AGRICULTURE  
Senator Clarence K. Nishihara, Chair  
Senator Gilbert Kahele, Vice-Chair

Friday, April 20, 2012

by

Bernardino G. Cagauan, Jr.  
President, Tropical Orchid Growers Association of Hawaii

Support for HCR 104, Relating to the Magoon Research and Teaching Facility

Chairs Tokuda and Nishihara, and members of the Senate Committee on Education and Agriculture. Thank you for the opportunity to testify in favor of HCR 104, urging the University of Hawaii to designate the Magoon Research and Teaching Facility site for the College of Tropical Agriculture and Human Resources. My name is Bernardino G Cagauan, Jr.. I am an interested member of the community.

I am a commercial orchid grower located at 87-911 Apuupuu Road, Waianae, HI. I also represent fourteen other commercial orchid growers in Hawaii being the President of our association, the Tropical Orchid Grower Association of Hawaii. Throughout the last 30 years the members of our association (formerly the Dendrobium Orchid Growers Association of Hawaii) have relied on the Magoon Facility as a source of dendrobium seed materials which are not available anywhere. As a matter of fact, it is from this facility that the dendrobium cutflower orchid industry was born through the research of Dr. H. Kamemot (now retired) and his students on superior cutflower cultivars. This group also developed many outstanding dendrobium cultivars that have qualities which are now in great demand in many mainland and foreign markets. With the competition coming from Taiwan and Thailand which threatens the viability of the orchid industry, this research capability of this facility must be strongly maintained and even expanded. Hence the availability of orchid seed materials must continue and the development of new and superior cultivars must be pursued.

Magoon is one of the few places that students can get training to go into other important horticultural business which has large economic implication for the state. It is also the only facility where students' training in such horticulturally essential topics as fertilizers, weed control, nematodes and biofuels, can be integrated with the full range of laboratories, classrooms and facilities that the UH Manoa campus has to offer. I hope that the state, with its larger self interest, comes to an understanding of the importance of investing in the next generation of agribusiness persons. For all these reasons I strongly encourage our legislators to support HCR 104 and urge the University of Hawaii to designate the Magoon Facility to CTAHR.

THE SENATE  
THE TWENTY-SIXTH LEGISLATURE  
REGULAR SESSION OF 2012

Personal Testimony Presented Before  
the Senate Committee on Education  
Senator Jill Tokuda, Chair  
Senator Michelle N. Kidani, Vice Chair

and the Senate Committee on Agriculture  
Sen. Clarence Nishihara, Chair  
Sen. Gilbert Kahele, Vice Chair

April 20, 2012

By  
Reyn Horner

Support for HCR 104, Relating to the Magoon Research and Teaching Facility

Chairs Tokuda and Nishihara, Vice Chairs Kidani and Kahele, and Committee Members:

Thank you for the opportunity to testify in favor of HCR 104, which designates the Magoon Research and Teaching Facility site for the College of Tropical Agriculture and Human Resources (CTAHR). My name is Reyn Horner and I am an interested member of the community.

My business, Hapa Farms, is a sustainable agriculture company and one of the state's producers of locally-grown produce. My company has partnered with researchers at CTAHR to improve the quality of our produce and the technology we use for our agriculture. We rely heavily on the research being done by CTAHR, namely at the Magoon Facility, in order to successfully create a marketable product.

Hapa Farms also works with schools to integrate aquaponic and static hydroponic agricultural technologies as a hands-on, project-based learning/teaching tool for Hawaii's children. We depend on CTAHR research as references for the work that we do in the schools and the science that is integrated into the curriculum. CTAHR researchers also come to the schools we work with to collaborate on these agricultural projects and present their work to the students. Our partnership with researchers at the Magoon Facility has enhanced the experience for the 7 schools and 1,000+ students that our projects reach.

For all these reasons I strongly encourage our legislators to support HCR 104 and designate Magoon to CTAHR.

THE SENATE  
THE TWENTY-SIXTH LEGISLATURE  
REGULAR SESSION OF 2012

Personal Testimony Presented Before  
the Senate Committee on Education  
Senator Jill Tokuda, Chair  
Senator Michelle N. Kidani, Vice Chair

and the Senate Committee on Agriculture  
Sen. Clarence Nishihara, Chair  
Sen. Gilbert Kahele, Vice Chair

April 20, 2012

By  
Erin Horner

Support for HCR 104, Relating to the Magoon Research and Teaching Facility

Chairs Tokuda and Nishihara, Vice Chairs Kidani and Kahele, and Committee Members:

Thank you for the opportunity to testify in favor of HCR 104, which designates the Magoon Research and Teaching Facility site for the College of Tropical Agriculture and Human Resources (CTAHR). My name is Erin Horner. I am an interested member of the community.

Magoon Facility is the site of research that directly supports Hawai'i's horticulture, biofuels, sustainable farming, aquaponics, crop protection, and bioremediation. Hawai'i's agricultural businesses contribute millions of dollars to the state economy, and they rely on the contributions of CTAHR's researchers working at Magoon.

Magoon is also the site of important instruction for numerous classes for undergraduates and grad students, students who will be the next generation of ag workers for the state. Hawai'i needs to revitalize its agriculture systems, its food and fuel security, and this can only be done with an educated and experienced workforce. Magoon is a necessary part of providing that education and hands-on experience that I hope the next generation can continue to enjoy and learn from.

I strongly encourage our legislators to support HCR 104 and designate Magoon to CTAHR.

Personal Testimony Presented Before  
the Senate Committee on Agriculture  
Sen. Clarence Nishihara, Chair  
Sen. Gilbert Kahele, Vice Chair

April 19, 2012

By

Ryan Tsutsui

Support for SCR 136, Relating to the Magoon Research and Teaching Facility

Chairman Nishihara, and members of the Senate Committee on Agriculture: Thank you for the opportunity to testify in favor of SCR 136, which designates the Magoon Research and Teaching Facility site for the College of Tropical Agriculture and Human Resources (CTAHR). My name is Ryan Tsutsui. I am an interested member of the community.

I am a worker at Mari's Gardens, one of the state's largest aquaponics farm. Our business provides a variety of produce to the people of Hawaii, helping to decrease the state's dependence on imported foods. Throughout the years our company has partnered with researchers at Magoon Facility to improve the understanding of aquaponic systems. I have been grateful for the assistance of CTAHR scholars working at the facility and look forward to collaborating with Magoon for many years to come and together working to further gain a better understanding of this innovative and sustainable way of farming.

I am very concerned about the current food situation in Hawaii and want to do my part in providing local produce to Hawaii residents. As a young farmer who has ambitions to continue in the agriculture industry, the Magoon facility will be of great assistance to me when I go back to take agricultural classes. Magoon is one of the few places that students can get the training to go into this important business, with its large economic implications for the state.

For all these reasons I strongly encourage our legislators to support SCR 136 and designate Magoon to CTAHR.

Personal Testimony Presented Before  
the Senate Committee on Education  
Senator Jill N. Tokuda, Chair  
Senator Michelle N. Kidani, Vice Chair  
and  
Senate Committee on Agriculture  
Senator Clarence K. Nishihara, Chair  
Senator Gilbert Kahele, Vice Chair  
Friday, April 20, 2012  
by  
Lisa Kitagawa-Akagi

Support for HCR 104, Relating to the Magoon Research and Teaching Facility

My name is Lisa Kitagawa-Akagi and I am the Student Services Specialist at the College of Tropical Agriculture and Human Resources (CTAHR) at UH Manoa. However, today I am providing personal testimony

I support House Resolution 104, which calls for the designation of CTAHR's Magoon Research and Teaching Facility at UH Manoa as agricultural land to be protected for education and research purposes.

As the Student Services Specialist at CTAHR, I have the opportunity to work with our College's students every day. Through my interactions with them, I know how important it is for students to have opportunities for hands-on research and experience in agriculture. The Magoon Research and Teaching Facility, which is a short walk or shuttle ride away from the Manoa campus, provides a convenient location for students to engage in this type of hands-on learning and research. It provides students with real-world experience, as well as opportunities for careers in agriculture and research.

I strongly encourage our legislators to support HR 104 and thereby assist CTAHR in training Hawaii's future generations of farmers, nurserymen, landscape specialists, and agricultural scientists.

**Senate Committee on Agriculture**  
Senator Clarence K. Nishihara, Chair  
Senator Gilbert Kahele, Vice Chair

**Senate Committee on Education**  
Senator Jill N. Tokuda, Chair  
Senator Micelle Kidani, Vice Chair

Friday, April 20, 2012  
1:15 PM, Conference Rm 329  
State Capitol  
415 S. Beretania Street

Richard Manshardt, Personal Testimony  
1477 Alencastre Street, Honolulu, HI

**Support for HCR 104**, Relating to the Magoon Research and Teaching Facility

Thank you, Chairs Nishihara and Tokuda, Vice Chairs Kahele and Kidani, and members of the Committees for Agriculture and for Education for this opportunity to provide testimony in support of HCR 104.

My name is Richard Manshardt. I am a Professor at UH Manoa with 30 years of teaching and research experience in the College of Tropical Agriculture and Human Resources. However, today I am providing personal testimony and not officially representing the University.

I think we all acknowledge the importance of housing for attracting and retaining new faculty, but my opinion is that that issue could be better resolved by other approaches than building more housing at the Magoon site. Alternatives include proper enforcement of rules for tenure at existing faculty housing and exploration of a mortgage subsidy program for newly recruited faculty.

I support House Resolution 104 calling for the designation of CTAHR's Magoon Research and Teaching Facility at UH Manoa as agricultural land to be protected for education and research purposes, for the following reasons:

- The Magoon Facility is indispensable for CTAHR's curriculum for training students in practical, hands-on applications of agricultural production and research.
- Its location immediately adjacent to the Manoa campus and Noelani Elementary School is the only site that allows convenient access to greenhouse and field plots for instruction and research without disrupting students' daily academic schedules.
- Magoon has unique facilities, unavailable elsewhere at UH Manoa, that support research and instruction in small animal surgery and plant genetic engineering.

I want to elaborate on the latter special facility. Genetically engineered plants undergo a period of testing during which their benefits and potential risks are evaluated, and a USDA-approved bio-containment facility is required to isolate them during this interval. The only such bio-containment greenhouse for Manoa is at Magoon. To illustrate its importance for the state, I'd like to point out that this facility was used by a group of students and researchers in the early 1990s to produce the first papaya seeds with genetically engineered resistance to a very serious virus disease that was threatening the papaya industry. Those efforts resulted in the release of a disease-resistant papaya variety named the 'Rainbow' papaya in 1998. Since the first harvest of Rainbow fruit in the year 2000, the approximately 200 papaya growers in Hawaii have been able to continue producing crops worth an average of \$12.5 million annually. The cumulative total farm gate value over the 12 year period is in excess of \$150 million. That represents an average gross income for growers of more than \$60,000 annually, a very significant part of their income. That healthy productivity would have been impossible without the virus-resistant varieties, and their development depended very critically upon having the Magoon bio-containment facility available during the early stages of their evaluation.

For this reason, and the others cited above, I strongly encourage our senators to support HCR 104 and thereby assure that Magoon will continue to assist CTAHR in training Hawaii's future generations of farmers, nurserymen, landscape specialists, and agricultural scientists.

Thank you for your attention.



April 19, 2012

To: **Senator Jill Tokuda**  
Chair, Senate Committee on Education

From.: Yong soo Kim  
Tel.: 808 956 8335

Ref.:HCR 104, "URGING THE UNIVERSITY OF HAWAII TO DESIGNATE THE  
MAGOON RESEARCH AND TEACHING FACILITY SITE FOR THE UNIVERSITY  
OF HAWAII AT MANOA COLLEGE OF TROPICAL AGRICULTURE AND  
HUMAN RESOURCES."

I am a faculty member with the College of Tropical Agriculture and Human Resources (CTAHR), University of Hawaii-Manoa. I want to thank you for hearing HCR 104 and urge its passage without amendment as passed by the House for the following reasons:

- the site is very critical to facilitate research and training of students in agricultural and environmental sciences due to its proximity to campus,
- the site allows students to gain "hands-on" practical experiences in field trials,
- its proximity allows for more intensive projects which can generate data for local producers or to allow for more critical care of plants and animals during intensive data collection times,
- there are other sites that the UH can use for faculty housing including land by the KCC campus,
- Hawaii needs to diversify its economy and agriculture is one such sector where the CTAHR has played an important role e.g. new varieties of anthuriums, orchids, fruit trees, etc. The Magoon site has been pivotal for many of such successes. These efforts are part of a sustainable economy for the state.

Because of the above reasons and many more that your committee and you will hear today, I urge your passage of HCR 104.

Thank you for your support.

Testimony for EDU/AGL 4/20/2012 1:15:00 PM HCR104

Conference room: 329  
Testifier position: Support  
Testifier will be present: No  
Submitted by: Harry Ako  
Organization: Individual  
E-mail: [hako@hawaii.edu](mailto:hako@hawaii.edu)  
Submitted on: 4/18/2012

Comments:

My students and I do aquaponics research and learning at the Magoon site. Aquaponics is very popular nowadays for both backyard food production and we are helping farmers start several aquaponics farms around Hawaii and the Pacific Island. Our plan recently won an award in a competition at the Harvard Business School. We need the site at Magoon for our aquaponics research and to train students to train others in aquaponics. Working far from campus at a research station is not a choice for students who could not afford the commuting time and the gas money.

Testimony for EDU/AGL 4/20/2012 1:15:00 PM HCR104

Conference room: 329  
Testifier position: Support  
Testifier will be present: No  
Submitted by: Brian Turano  
Organization: Individual  
E-mail: [turanob@ctahr.hawaii.edu](mailto:turanob@ctahr.hawaii.edu)  
Submitted on: 4/17/2012

Comments:

I do research and train students at the Magoon Facility. It is a highly valuable facility to students and researchers at the Manoa campus. I urge you to support HCR 104 so that future students and researchers can benefit from this unique and excellent facility.

Testimony for EDU/AGL 4/20/2012 1:15:00 PM HCR104

Conference room: 329  
Testifier position: Support  
Testifier will be present: No  
Submitted by: Matt Johnson  
Organization: Individual  
E-mail: [matt.johnson@sustainpromgmt.com](mailto:matt.johnson@sustainpromgmt.com)  
Submitted on: 4/17/2012

Comments:

Magoon Research and Teaching Facility should stay as a research center and not be turned into faculty housing.

Testimony for EDU/AGL 4/20/2012 1:15:00 PM HCR104

Conference room: 329  
Testifier position: Support  
Testifier will be present: No  
Submitted by: Megan Kinoshita  
Organization: Individual  
E-mail: [kinoshitsmallz@ymail.com](mailto:kinoshitsmallz@ymail.com)  
Submitted on: 4/18/2012

Testimony for EDU/AGL 4/20/2012 1:15:00 PM HCR104

Conference room: 329  
Testifier position: Support  
Testifier will be present: No  
Submitted by: Kelly Nakandakari  
Organization: Individual  
E-mail: [knaka23@hotmail.com](mailto:knaka23@hotmail.com)  
Submitted on: 4/18/2012

Testimony for EDU/AGL 4/20/2012 1:15:00 PM HCR104

Conference room: 329  
Testifier position: Support  
Testifier will be present: Yes  
Submitted by: Robert Paull  
Organization: Individual  
E-mail: [robert.paull@hawaii.rr.com](mailto:robert.paull@hawaii.rr.com)  
Submitted on: 4/19/2012

Testimony for EDU/AGL 4/20/2012 1:15:00 PM HCR104

Conference room: 329  
Testifier position: Support  
Testifier will be present: No  
Submitted by: Gerry Hay  
Organization: Individual  
E-mail: [dendros@hawaiiantel.net](mailto:dendros@hawaiiantel.net)  
Submitted on: 4/19/2012

Comments:

We need Magoon Ag. research facilities for our business to continue.

Testimony for EDU/AGL 4/20/2012 1:15:00 PM HCR104

Conference room: 329  
Testifier position: **Oppose**  
Testifier will be present: No  
Submitted by: Alysha Franco  
Organization: Individual  
E-mail: [alysha2010@hawaii.rr.com](mailto:alysha2010@hawaii.rr.com)  
Submitted on: 4/19/2012

Testimony for EDU/AGL 4/20/2012 1:15:00 PM HCR104

Conference room: 329  
Testifier position: Support  
Testifier will be present: No  
Submitted by: Dean and Mary Monroe  
Organization: Individual  
E-mail: [mary@kaleialoha.com](mailto:mary@kaleialoha.com)  
Submitted on: 4/19/2012

Comments:

We are in support of HCR 104 because this Magoon facility used for cut orchid flower research directly effects my business.

Mahalo,  
Dean and Mary Monroe  
Kaleialoha Orchid Farm, Inc.

Testimony for EDU/AGL 4/20/2012 1:15:00 PM HCR104

Conference room: 329  
Testifier position: Support  
Testifier will be present: No  
Submitted by: Sandra Baehr  
Organization: Individual  
E-mail: [baehrj001@hawaii.rr.com](mailto:baehrj001@hawaii.rr.com)  
Submitted on: 4/19/2012

Comments:

I am in support of HCR104 because this Magoon facility used for cut flower research directly affects my business

Testimony for EDU/AGL 4/20/2012 1:15:00 PM HCR104

Conference room: 329  
Testifier position: Support  
Testifier will be present: No  
Submitted by: Phoenicia Zeller  
Organization: Individual  
E-mail: [Phoeniciaz@gmail.com](mailto:Phoeniciaz@gmail.com)  
Submitted on: 4/19/2012

Comments:

This will affect my business. I am in support.