



Regional e-Notes ~ Volume 10, Issue 5 ~ May 2018

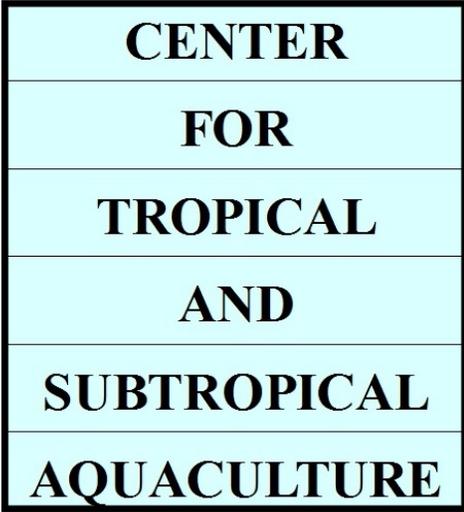
## Letter from the Director

Aloha,

As I have shared before, CTSA is a proponent of using available natural resources efficiently and converting wastes into useful products. I was impressed with a recent article about chefs in Australia who are developing seafood recipes that use 80-90% of each whole fish. This is a significant improvement from the 40% yield achieved under most current practices. As a result, consumers are getting more seafood without increasing fishing or aquaculture production.

The article got me thinking about reducing waste as another important way to increase our seafood supply and at the same time alleviate some of the pressure on fisheries and aquaculture. Other countries are implementing similar practices, and I believe the United States should follow suit to innovate the ways we supply our consumer demand for seafood.

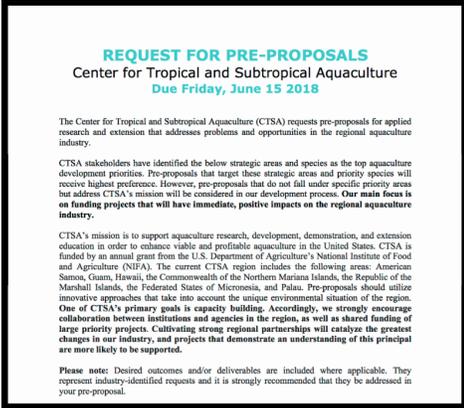
One of the areas with the greatest potential for innovation and waste repurposing is sustainable aquaculture. There are many benefits from investing in domestic aquaculture research and production, including an increase in efficient food production technology, food security, and economic opportunities, as well as a decrease in the chances of exposure to potential health risks from imported seafood. Just recently, the U.S. rejected an overseas shipment... [Read More](#)



## CTSA FY2018 Request for Pre-Proposals

CTSA released the FY18 Request for Pre-Proposals through our website earlier this month. Pre-Proposals are due to CTSA on Friday June 15.

CTSA's mission is to support aquaculture research, development, demonstration, and extension education in order to enhance viable and profitable aquaculture in the United States. The FY18 Request lists the top priority areas and species as identified by industry stakeholders in Hawaii and the U.S. Affiliated Pacific Islands. Our main focus is on funding projects that will have immediate, positive impacts on the regional aquaculture industry.



## NOAA CELC Aquaculture Education Webinar Series

The CELC Aquaculture Education Webinar Series will hold its next webinar on Wednesday May 30, 4-5 PM EST.

Linda Cornish, President of the Seafood Nutrition Partnership, will present on "Sustaining Ourselves Through Seafood: Seafood nutrition at the intersection of public health and environmental health." Call-in information and more details about the webinar are available in the announcement... [Read More](#)



## SPC Releases RFP for Sustainable Pacific Aquaculture Development Project

The Fisheries, Aquaculture and Marine Ecosystems Division (FAME) of the Pacific Community (SPC) has launched the New Zealand Ministry of Foreign Affairs and Trade (NZMFAT) funded Sustainable Pacific Aquaculture Development project (PacAqua).



The Sustainable Pacific Aquaculture Development project aims to increase adoption of and enhance business acumen among aquaculture operations, and increase uptake and adoption of improved aquaculture practices. Under this project, the FAME Division will provide business mentoring and training, capacity development and technology transfer in feed, seed and broodstock management to selected enterprises and partners.

The Sustainable Pacific Aquaculture Development project will work with existing enterprises including farmer, grower, processor, exporter associations and NGOs that are interested in developing and expanding their business capacity and operation.

The 20 Pacific Island Countries whose members are eligible to apply include: American Samoa, Cook Islands, Federated States of Micronesia, Fiji, French Polynesia, Guam, Kiribati, Marshall Islands, Nauru, New Caledonia, Niue, Palau, Papua New Guinea, Samoa, Solomon Islands, Tokelau, Tonga, Tuvalu, Vanuatu and Wallis and Futuna. Learn more on the [SPC website](#).

## AquaClip: Study Finds that Fish Farming Saves Land

New evidence shows seafood from aquatic farming -aquaculture- can help feed the future global population while substantially reducing one of the biggest environmental impacts of meat production -land use- without requiring people to entirely abandon meat as a food source.

A new study from UC Santa Barbara's National Center for Ecological Analysis and Synthesis (NCEAS) found that the amount of cropland required to support future protein needs with more

farmed aquatic animals would be significantly smaller than if terrestrial livestock production met those needs. This research is the first land-use analysis of future food systems to focus on aquaculture-the world's fastest-growing food sector-and helps reveal its potential role in conservation and food security. The findings appear in the Proceedings of the National Academy of Sciences.

"While aquaculture can add some pressure because-ultimately-it is a food production system, our study demonstrates the relative amount is minuscule compared to terrestrially farmed animals," said lead author Halley Froehlich, a postdoctoral researcher at NCEAS. "Aquaculture is not going to be the main strain on future crop feed and land use. It is-and will likely continue to be-terrestrial livestock."

Aquaculture production depends on a number of land-based crops for feed, positioning it uniquely at the interface of aquatic and terrestrial food systems. To understand its land-use implications, the researchers examined how much land would be required to grow the seven most common crops used to feed both terrestrial livestock and farmed fish under three scenarios for the year 2050, synthesizing food production data from the FAO and other scientific sources.

The investigators compared a business-as-usual scenario in which terrestrial meat consumption continues to dominate seafood to two scenarios in which aquaculture meets the additional protein demands of the global population in 2050. They found that replacing the added terrestrial production with aquaculture instead could spare between 729 and 747 million land hectares globally; that's an area twice the size of India, the world's seventh biggest country.

Read more at: <https://phys.org/news/2018-04-farming-fish.html#jCp..>

Source: Phys.org / [Read Full Article](#)

[www.ctsa.org](http://www.ctsa.org)



The Center for Tropical and Subtropical Aquaculture (CTSA) is one of five regional aquaculture centers in the United States established and funded by the U.S. Department of Agriculture's National Institute of Food and Agriculture (NIFA) under grants 2012-38500-19566, 2014-38500-22241, and 2016-38500-25751. The regional aquaculture centers integrate individual and institutional expertise and resources in support of commercial aquaculture development. CTSA was established in 1986 and is jointly administered by the Oceanic Institute of Hawaii Pacific University and the University of Hawaii.

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