



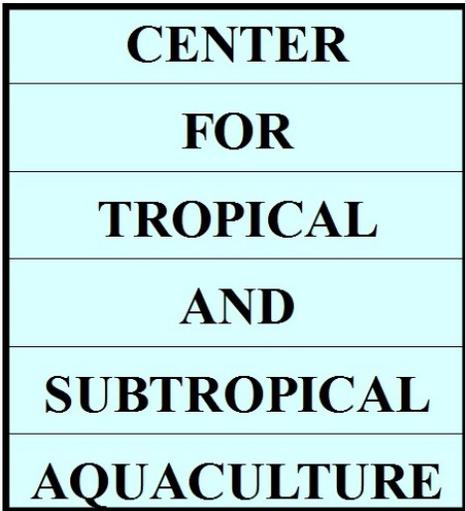
*Regional e-Notes ~ February 2018 ~ Volume 10, Issue 2*

## Letter from the Director

Aloha,

Like many of you, I just returned home from the Aquaculture America Conference in Las Vegas. The theme of this year's conference was "Shaping the Future - Telling our Story," and it was a productive week filled with educational presentations, constructive meetings with old and new friends, and a powerful plenary session. Dr. Jerry Schubel, President and CEO of the Aquarium of the Pacific, began the session by telling the story of how seafood saved early homosapiens, who survived by moving to coastal regions where they had access to an abundance of nutrient-rich protein. He further pointed out that seafood may once again save our species from a global food crisis, but only if we approach it through effective fisheries management and increased sustainable aquaculture production. Dr. Schubel closed his presentation by urging stakeholders to address obstacles impeding the expansion of U.S. aquaculture -- particularly the public perception of fish farming -- and challenging all in attendance to take a role in shaping the narrative surrounding our industry through storytelling. He was followed by guest speaker Dave Lieber, who presented his formula on how to tell an impressive story and encouraged attendees to "embrace their hero traits" and tell their success stories to help increase global acceptance of aquaculture.

During the conference, it was evident that many researchers and other industry stakeholders are paying close attention to the sustainability of aquaculture farming practices, as there was much focus on up-and-coming efficient and environmentally friendly farming and feeding technologies. The session on aquaponics was packed with researchers, farmers, and other industry stakeholders interested in the emerging method of farming, while several presentations focused on alternative feed ingredients and converting waste into useable resources. If we champion renewable technologies like these and highlight ... [Read More](#)



## CTSA Project Update: Integrated Multi-Trophic Aquaculture of Shrimp and Sea Cucumbers

Feed typically represents the single largest operating expense for aquafarmers and one of the greatest inefficiencies on many farms is waste of valuable nutrients from feed. Furthermore, many aquaculture

farms incur costs to treat and/or dispose of nutrient-rich sludge generated from production systems.

A promising area of aquaculture research that directly addresses these inefficiencies is Integrated Multi-Trophic Aquaculture (IMTA) where "waste" nutrients from a "fed" species is taken up and incorporated into the biomass of another commercially valuable "extractive" species. Such a management strategy improves nutrient use efficiency, reduces waste volume and disposal costs, and creates an additional revenue stream. An ongoing CTSA-funded project at the Oceanic Institute of HPU is investigating an IMTA approach using sea cucumbers to digest waste produced from shrimp production systems. The two-year project "Integrated Multi-Trophic Aquaculture of Shrimp and Sea Cucumbers for Nutrient Recycling, Sludge Reduction, and Creation of Additional Revenue Streams" has completed Year 1 activities and will begin Year 2 activities shortly ...[Read More](#)

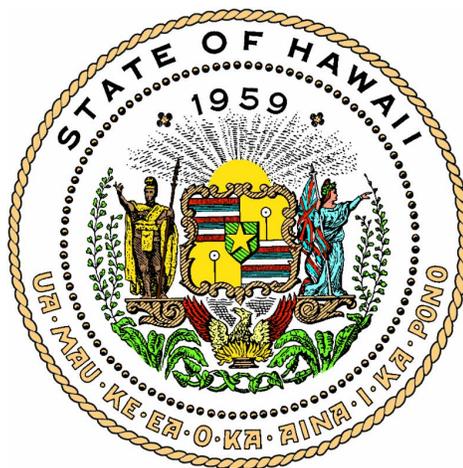


## Call for Written Testimonies for Hawaii Aquaculture Legislation

The Hawaii State Legislature started its 2018 session last month, and two bills have been introduced to support efforts to grow the commercial aquaculture industry in Hawaii.

HB2041, a bill to provide funding for the aquaculture incubator at NELHA, was scheduled for a hearing by the House Committee on Finance on February 28; testimonies are still welcome.

HB1960, a bill to provide support for the planning and participation of Hawaii's Aquaculture Industry in the Aquaculture America 2020 conference, passed out of the House Committee on Finance. However, the appropriation amount has been blanked out. The next step is for this bill to cross over to the Senate and to be heard by the Senate Committee on Economic Development, Tourism and Technology. [Click here](#) to submit testimony for either bill.



## Reminder: It's the Last Week to Participate in the Aquaculture Outreach Survey!

A brief survey has been developed for educators and institutions that specialize in ocean literacy and seafood businesses that provide information to their customers. It will provide a landscape overview of who is sharing information about marine aquaculture, the context in which they are doing so, and the channels through which they are disseminating it. This overview will, in turn, help shape recommendations which will lead to the development of tools and resources targeted to cohesive, science-based public education about marine aquaculture.



Aquaculture Outreach Survey

The survey was released by the Galway Statement Implementation Committee's Ocean Literacy Working Group and Aquaculture Working Group, and project collaborators include: The Atlantic

Ocean Research Alliance project, Aquarium of the Pacific's Seafood for the Future program (SFF), European Commission Horizon 2020 projects (AORA-CSA, ResponSEable, SUCCESS), National Oceanic and Atmospheric Administration (NOAA), and the Department of Fisheries and Oceans Canada. SFF will collect and archive the data... [Read More](#)

## AquaClip: NOAA launches new fisheries website

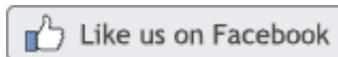
NOAA has announced "phase 1" of its new fisheries website is now complete. NOAA has begun and will continue migrating 20 separate websites and platforms into one national website to reduce redundant content and make it easier to find information without having to jump from website to website.

The Aquaculture section of the new website can be found under the Fishing & Seafood section, and features news, regional activities, information on regulations and policies, and more.

Other highlights of the [new website](#) include a new look and feel, better organization, higher-quality content, and a mobile friendly platform.

Source: [Aquafeed.com](#) / [Read 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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