

CENTER FOR  
TROPICAL AND SUBTROPICAL  
AQUACULTURE



## Letter from the Director

Aloha & Happy Halloween!

Carving a pumpkin in the shape of fish is a bit like developing the aquaculture industry in the US Affiliated Pacific Islands: it is a slow and detailed process but well worth the end result.



One island chain that is carving a place in the Pacific aquaculture industry is the CNMI. Take a look at the video featured in this month's issue of e-notes to learn more. Also included in this issue are a couple of upcoming workshop announcements.

Last but certainly not least, we would like to extend a warm thank you to our colleagues who reviewed CTSA's FY11 proposed projects. Outside reviews are a critical part of our annual development process, and we appreciate the time and effort. As always, if you have any comments, questions, or suggestions, please do not hesitate to let us know.

Mahalo,

Cheng-Sheng Lee  
Executive Director, CTSA

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## Quick Links

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

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

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## Pacific Island Spotlight Video: Aquaculture in the CNMI



The main Northern Mariana Islands of Saipan, Tinian, and Rota are home to several emerging aquaculture operations that are supplying the local market with food and revitalizing a struggling economy. Click the image to the left to watch a video about the transformation taking place in the CNMI.

*(please note, portions of the audio included in this video will only play on the left speaker)*

## Upcoming Workshop Announcements

### CTAHR/HAAA Workshop

Saturday November 12, 2011 at 9am

Windward Community College, Hale Akoakoa

*All day event. Doors open at 8am, program starts at 9am.*

CTAHR's aquaculture extension program and HAAA will be holding a workshop that will highlight ongoing aquaculture/aquaponic research and extension activities at the University of Hawaii as well as aquaculture related activities in Hawaii. The workshop will be combined with the HAAA annual meeting and learn about what HAAA does for its stakeholders and join the crowd to make the industry stronger and more vibrant as it strives to meet the challenges facing our island community. *This workshop is co-sponsored by CTSA.*

RSVP and prepayment is required. Contact by email: Ron Weidenbach:

[hawaiiifish@gmail.com](mailto:hawaiiifish@gmail.com) (phone 808- 429-3147) or Clyde Tamaru: [ctamaru@hawaii.edu](mailto:ctamaru@hawaii.edu)

[Click here to view the workshop agenda](#)

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Aquaculture eXtension Virtual Workshop  
November 8-11, 2011 at 2pm Central

eXtension, the electronic Extension service, is proud to support the Freshwater Aquaculture Community of Practice in presenting the Aquaculture eXtension Virtual Workshop. These sessions are offered at No Cost to the participants. The workshop will be a general overview of the production systems used, and species cultured in the aquaculture industry, and will cover keys to developing successful aquaculture production, marketing and addressing aquatic health issues. This session is open to anyone with internet access and a phone line. If interested or have questions about attending this workshop please contact Vanessa Weldon, [vweldon@uaex.edu](mailto:vweldon@uaex.edu), 870-575-8178

To attend the event please use the following link at 2PM central on the day of the event:

<https://connect.extension.iastate.edu/freshwater>

To make sure your computer will work during the session please test your computer at

[https://connect.extension.iastate.edu/common/help/en/support/meeting\\_test.htm](https://connect.extension.iastate.edu/common/help/en/support/meeting_test.htm)

#### Nov. 8 Systems Overview

- 2:00 - 2:15 Flow-through Systems- Gary Fornshell, University of Idaho
- 2:15 - 2:30 Pond Culture - Forrest Wynne , Kentucky State University
- 2:30 - 2:45 Recirculating Systems - Greg Lutz, Louisiana State University
- 2:45 - 3:00 Cage Culture - David Cline, Auburn University
- 3:00 - 3:15 Aquaponics - Anita Kelly, University of Arkansas at Pine Bluff

#### Nov. 9 Species Overview

- 2:00 - 2:15 Trout - Gary Fornshell, University of Idaho
- 2:15 - 2:30 Catfish - Len Lovshin, Auburn University
- 2:30 - 2:45 Perch - Jim Held, Southern Wisconsin
- 2:45 - 3:00 Tilapia - Greg Lutz, Louisiana State University
- 3:00 - 3:15 Ornamentals - Carlos Martinez, University of Florida

#### Nov. 10 Aquaculture Business

- 2:00 - 2:30 The Three Pillars of Successful Aquaculture Businesses: How to Maintain Strength and Prevent Failure- Carole Engle, University of Arkansas at Pine Bluff
- 2:30 - 3:00 Marketing options for small scale producers - David Cline, Auburn University

Nov. 11 Aquatic Health

2:00 - 2:20 Water Quality - Allen Pattillo, Iowa State University

2:20 - 2:40 Aquatic Weed Management - Michall Masser, Texas Agrilife Extension Service,  
Texas A&M University

2:40 - 3:00 Fish Disease - Andy Goodwin, University of Arkansas at Pine Bluff

## AquaClip: Hawaii Oceanic Tech Receives Patent

Originally published on [www.bigislandvideonews.com](http://www.bigislandvideonews.com) October 17, 2011.

In Kawaihae, a Hawaii based open ocean aquaculture company has received a U.S. patent for its fish farming technology that will be deployed off the North Kohala Coast.

Hawaii Oceanic Technology, Inc. filed the patent in September 2007 for its "Oceansphere", Automated Positioning and Submersible Open Ocean Platform for Fish Farming.

The company has permits and approval for a 247-acre lease site 2.6 miles off of North Kohala, where it can deploy up to Twelve Oceanspheres in the hopes of producing 6,000 tons of tuna per year.

We interviewed CEO Bill Spencer in 2008 about the project.

The project is not without some controversy. The organisation Food and Water Watch has been critical of many aquafarming projects around the world, warning that they may be harmful to the ecosystem.

The company is privately funded and was formed in 2006 as a Delaware C corporation. Its headquarters are in Honolulu.

[Click here](#) to watch the accompanying video interview.

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 2006-38500-16901, 2007-38500-18471, 2008-38500-19435, and 2010-38500-20948. 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 and the University of Hawaii.