

# Texas AquaNotes



Texas Aquaculture Association June 2011, Volume 23, No. 3  
P.O. Box 752, Kemah, TX 77565

## President's Corner

Howdy again from South Texas; aka, the little Sahara! It has been a very dry and windy spring, the bright side is, that temperatures have been warm and steady with few missed feeding days due to cold or rain. There's been lots of feed hitting the water recently, and lots of production in the making.

A very positive outlook is still being seen for the catfish industry. For one of the very few times in history, the pond bank price of fish actually increased after lent. This is being supported by the continued fish shortage in the industry. Processing was down over 30% the last 2 months compared to 2010, and it was not because of low price or demand, but just a shortage of fish available to process. Fish processors from all across the Southeast are sending trucks to Texas searching for fish. The shortage should help sustain fish prices for the better part of this growing season. Feed deliveries are already 20% lower than last year, which means fewer fish pounds in the future pipeline.

I encourage everyone to save this date, August 10, 2011, and make sure to attend the Four P's seminar in San Marcos, Texas. The program will be very informative and attendance will be vital in future endeavors to bring high quality seminars to Texas. A big 'Thank You' needs to go out to Rob Schmid for his hard work in bringing this event to Texas. It took some effort to bring it all together, now it's up to us to take advantage of this opportunity in our home state.

Just a reminder, the 42<sup>nd</sup> Annual TAA Conference & Trade Show will be January 25-27, 2012 in Bay City. If you have any suggestions for the conference please make them known as soon as possible as work is already in progress.

On the state and national stage, budget cuts and ground water continue to be hot topics. Both certainly influence our industry and I encourage everyone to stay informed and get involved in educating our representatives on how these issues effects our businesses. After traveling to Austin in January and Washington DC in May, I have seen first hand the disconnect between our legislators and the agriculture industry. It's not that they aren't interested, most do not have agriculture background themselves nor among their staff members and do not understand policy implications. It is our job to help educate them so their decisions do not adversely affect our industry. This is never a fun part of our job, but one that must be taken seriously and met head on with a proactive approach.

Finally, things continue to look very promising for our industry as a whole! Prices and demand continue to be strong and our national economy seems to be improving ever so slowly. Here's hoping all our industry enjoys the opportunity to prosper in 2011.

Have great summer!  
Mark Kubecka  
TAA President

## Happenings at Texas Parks and Wildlife: Inland Fisheries

By: Rob Schmid

The "Happening at TPWD" didn't make the first quarter AquaNotes due to an abundance of other stories, other articles and reports on the 2011 conference. So there's a little catching up.

The 2010-2011 winter rainbow trout (RBT) stocking season is in the books! We had a smooth run, no major problems and plenty of happy trout fishermen. Four hatcheries were involved in the RBT program (AE Wood, TFFC, PK and Jasper), making combined deliveries of about 300,000 fish, 94,000 lbs, 300+ separate deliveries driving about 60,000 miles. The RBT winter stocking program remains one of the most popular programs TPWD has, generating literally dozens of calls/day from avid trout fishermen checking on the latest stocking schedules, so they can be there for the action.

No sooner did we finish the RBT season and it was time to start making preparations for bass and koi spawning season. Guadalupe bass and Northern LMB brooders were stocked in AE Wood's raceways at the end of February for about a 2-3 week acclimation period before pairing to spawn. Just like clockwork, both groups cooperated by spawning right on queue. Fry were pond stocked, the brooders moved back out to holding ponds and the first group of FLMB were brought in. They too, spawned on queue and fry have been pond stocked for grow-out. The Guadalupes produced about 150,000 fingerlings, all being stocked in the Llano River in Junction. About 200,000 NLMB fingerlings are being stocked as this is being written in 8 different sites around the state. The two biggest stocking sites are Palo Duro Reservoir and Muenster. These 8 sites have been maintained as pure NLMB lakes to preserve the genetic diversity of LMB in the state. Of course, your average fisherman just wants to catch the biggest bass he can. That's why we stock FLMB all over the rest of the state.

Speaking of BIG bass, the Texas Toyota ShareLunker program has wrapped up for the year. There were 19 entries this year, two short of the 25 year average. There were two new water body records set, a new Junior Anger record set and

about 250,000 Lunker offspring stocked back into the contributing lakes. The biggest fish of the year was just over 16 lbs. setting one of the new water body records for Lake Austin. For all the details on the Texas Toyota ShareLunker program, you can go to;  
[http://www.tpwd.state.tx.us/newsmedia/news\\_images/](http://www.tpwd.state.tx.us/newsmedia/news_images/).

Striped bass (STB) and hybrid striped bass (HSB) season was questionable this year, due to the drought. There just wasn't much water flowing down the Trinity River. With cooperation from the Trinity River Authority, some water was released from Lake Livingston, and the fish came up to the tail-race as hoped. Brooders were collected and spawning went well. There were some anxious moments as brooders and fry were being shipped to Possum Kingdom, as the spawning happened at the same time as the big fires in that part of the country. Through some heroic efforts on the part of the Possum Kingdom State Park fire fighting team, the hatchery staff was able to get through, successfully spawn and pond stock their fry, and now, we wait another 2-3 weeks to harvest and stock fingerlings around the state.

Around the first week in May, AE Wood will start spawning channel catfish, Jasper will start spawning blue catfish, PK will start spawning smallmouth bass and everybody is growing koi forage.

We are watching the weather forecasts, hoping and praying for rain. We are watching and listening to the "legislative forecast", hoping and praying for a budget we can live with. Of course, regardless of the weather forecast and the legislative forecast, life goes on and we will make do the best we can with what we get. The "can do" attitude is alive and well. We'll pool our resources, get creative and do more with less, or at least do as much as we can with what we get.

Till next time, go fishing, take somebody fish and "EAT MORE FISH"!

## Dr. Bill Neill Retiring in August 2011

By Granvil Treece

Dr. William Neill will retire in August 2011 after a long and successful 36-year career in fish biology and physiology at Texas A&M University Department of Wildlife and Fisheries Sciences.

Bill, wife Charlotte, and daughter Amanda came to College Station in 1975, from Hawaii, where Bill was a fisheries research-biologist with the U.S. National Marine Fisheries Service. Before that, he had earned his Ph.D. in Zoology at the University of Wisconsin (Madison, 1971), and his M.S. and B.S. degrees at the University of Arkansas (Fayetteville, 1967 and 1965).

Bill became a full Professor at TAMU in 1983 and has served in a number of administrative positions with the TAMU Wildlife Dept., including Interim Associate Dept. Head for Research and Graduate Programs, Interim Dept. Head and especially since 1986 he provided philosophical and administrative leadership of the Department's programs. With an integrated academic program focused on fish responses to environmental variation, Dr. Neill has earned teaching awards from his department, his college, and Texas A&M's Association of Former Students and has advised about 45 graduate students, some are current members of the Texas Aquaculture Association. At Texas A&M, Bill taught

graduate and undergraduate courses in fish biology, vertebrate physiological ecology, and ecological modeling. He is author, or active co-author, of about 100 scholarly works and has focused his research career on fish ecophysiology and quantitative autecology. In recent years, Dr. Neill's research approaches have emphasized computer-controlled experimentation and simulation modeling.

Bill will come out of retirement to teach his WFSC 417/617 "Biology of Fishes" course one more time in the Fall of 2012. The Texas Aquaculture Association would like to congratulate Bill on his long and highly successful career.



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## A “MUST ATTEND” Event

### The Four P’s of Safe and Sustainable Aquaculture Practices, Presentation, Promotion and the Press

August 10, 2011

Texas State University, San Marcos, TX

The National Aquaculture Association (NAA) and the United Soybean Board have teamed up with the Texas Aquaculture Association to sponsor an important one-day workshop; “The Four P’s of a Safe and Sustainable Aquaculture Industry: Practices, Presentation, Promotion and the Press”. The six (6) hour workshop will be held on Wednesday, August 10<sup>th</sup>, at the Texas State University campus in San Marcos, TX. in the Supple Building, Room 116 from 9:00 AM- 3:00 PM. Registration will began at 7:30-8:45 AM. The workshop will provide fish and shellfish producers with the knowledge and skills to market their products more successfully, grow their businesses, help shape the public’s perception of aquaculture at a local level, and work with government decision-makers. Ok, you’ve all read the “promo”, you’ve read the “company line”, you’ve read all the hype about the “Four P’s”, and you still need some convincing that this is important enough for you to take time out of your busy schedule and attend. Try these anecdotal stories on for size, and re-think your decision.

A few months ago, I (Rob Schmid) typed a search into Google, “Why is farm raised fish better than wild caught”. I got a response from Google that said, “Did you mean, Why wild caught fish is better than farm raised”!!! That response right there, all by itself should be enough proof for any of us to realize, we are fighting an uphill public relations battle for the hearts and minds of the consuming public. Why would Google come back with that response? I suspect that Google bases its search responses on common repetitive queries. I’m guessing the anti-aquaculture folks have put out far more information about why aquaculture is bad, than the aquaculture industry has put out about why aquaculture is good. Attending the Four P’s will provide you with ammunition to combat these accusations, innuendoes, half truths and often outright lies about our industry.

In preparation for writing this article, I again did a Google search, “Is aquaculture fish better than wild caught”. This time, I didn’t get the “Did you mean” line. That’s certainly a better response than before, but, the first site listed reads, “Is there any nutritional difference between wild-caught and farm-raised fish”? “Is one type better for me than the other”? The Overview response on the web site says; “From both a nutritional and environmental impact perspective, farmed fish are far inferior to their wild counterparts”. The web site is; The World’s Healthiest Foods, <http://www.whfoods.com/genpage.php?tname=george&dbid=96>.

I went on to look at the first ten (10) sites listed to see what direction they were leaning. The top three (3) sites were decidedly anti-aquaculture; even one regarding aquarium fish. The line that grabbed my attention was this, “...the proponents of sustainable harvest point out that if fishermen depend on the wild for the source of their income, they will protect that environment, as its continued health is critical to their livelihood. Holy Smoke, what rock have those folks been living under? Mankind has demonstrated again and again, that that statement is simply not true. Mankind will hunt and harvest and destroy the natural environment right down to the last whale, carrier pigeon, buffalo, or codfish, if not restricted from doing so by some outside authority. Five (5) of the top 10 sites were anti-aquaculture, three (3) were more or less neutral on the subject, just providing general information and to my pleasant surprise, three (3) were pro-aquaculture, including a “must read” site; Seafood for the Future: Aquaculture Efficiency and Feeds, <http://seafoodforthefuture.org/aquaculture-efficiency-and-feeds/>. This site provides exactly the kind of “fire-power” you’ll get at the Four P’s workshop to combat the BS, pseudo-science, anti-aquaculture propaganda that’s all over the

internet, in the newspapers, and even on the lips of the guy behind the seafood counter at the local full service grocery store.

To wrap up this “soap box” “fist pounding” frenzied, rant I’ve worked myself into, and, so you can get on with the business of raising and selling your product, there’s two things I’m requesting that you do; (1) get yourself signed up and attend the Four P’s workshop and more

importantly, (2) make sure you invite, bring along, and even consider paying for that seafood counter guy’s registration to the Four P’s. He’s the one who’s actually out there interacting with the public. Get him to see the light, get him to preach the good word about aquaculture, and we’ve won a major battle in the market place. The other Three P’s, it’s all good stuff. We’ll learn more about them too. See you there.



## Global Blue Technologies: Building Pilot Shrimp Operation in Port Isabel

By Granvil Treece

According to sources at Global Blue Technologies (GBT) they are building a pilot shrimp pond in the port area of Port Isabel, across the street from Bing Hung’s Lone Star shrimp hatchery site. The one-acre, lined, pond covered with greenhouse will grow shrimp using a modified floc system (a hybrid which has some solids removal) and they hope to produce shrimp year-round with no discharge. The Texas Commission on Environmental Quality (TCEQ) has issued a working permit, which is apparently the first no-discharge, discharge permit in the state for a shrimp farm. The exotic species permit is still pending with Texas Parks and Wildlife and is the last permit issued, after the TCEQ permit is

approved. The port area is under the control of the Navigation District and in recent years has become a security hub for the port, with DEA and Homeland Security offices added. This shrimp pilot is being welcomed by the residents of Port Isabel as a positive move for new business and jobs in the area. Construction should be completed later this summer and production trials under way shortly afterwards. The Texas Aquaculture Association also welcomes this project as a positive step for the industry and wishes GBT all the best.


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## TAA Making Presentation at Annual VATAT Professional Development Conference for Agriculture, Food and Natural Resources

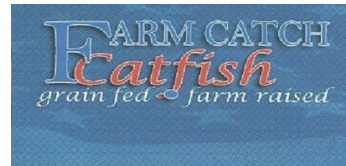
Brian Brawner of R&B Aquatic Distribution, Inc. and Robert Schmid of TPWD are presenting; Introduction to Aquaculture at the VATAT (Vocational Agriculture Teachers Association of Texas) Annual Conference being held July 25-29, at the Arlington Convention Center in Arlington, Texas.

The presentation, originally planned for the 2011 TAA Annual Conference & Trade Show in Bay City, created scheduling conflicts for many interested teachers. The VATAT Conference, held during the summer, more conveniently fits teacher's schedules.

The presentation, scheduled for Wednesday, July 27 from 8:30-11:45 AM, will include; introduction to aquaculture, information about small scale aquaculture systems, aquaculture

curriculum and a resource guide including a listing of aquaculture equipment suppliers, TAA Availability List, and a list of TAA members willing to make school presentations and offer their sites for potential field trip opportunities.

If you are interested in being a Sponsor for this event, please contact Donna Hanson for further details, (979) 695-2040 or [taa@txaqua.net](mailto:taa@txaqua.net). Your company name will be prominently displayed on the Aquaculture Resource Guide. If you wish to be listed as a potential school guest speaker and/ or offer your site for field trips, please contact Robert Schmid at; [rob.schmid@tpwd.state.tx.us](mailto:rob.schmid@tpwd.state.tx.us). Deadline for contacting either Rob or Donna is July 15<sup>th</sup>.



### Texas Aquaculture Association BOARD MEMBERS

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## Culturing Marine Ornamentals in Europe: Opportunities and Challenges for an Eco-Friendly Industry

Article by: Ricardo Calado Article review by: Robert Schmid

You all might read this article title and think, “What does culturing marine ornamental in Europe have to do with Texas aquaculture”? It’s the second line of the title that caught my eye, “Opportunities”! And, not to play the same tune again and again, but, this does follow the theme of the 2011 TAA Conference, Aquaculture Alternatives.

The article starts off by talking about the growth and expansion of the marine ornamental industry over the past few decades. Years ago, when I was a college student in South Florida, I kept salt water aquariums, but only by doing major water changes every week (chlorinating and dechlorinating 100’s of gallons of saltwater in trash cans) and collecting new fish regularly to replace the ones that died. Aquarium systems were simple; mainly under gravel filters with power heads, and an extra “hang on the side” filter, if you could afford one. Sophisticated systems were complex and expensive, artificial seawater mixes were available, but also expensive and only the wealthy could afford such luxuries. Those constraints limited who could be in the hobby; folks who lived near the ocean, and rich people. Fast forward to today, and “HOLY-MACKERAL”, there are mini reef systems, “reef ready” systems, pelagic fish systems, cold water systems, invertebrate systems, and on and on. With just a bit of internet research, a minimal investment and some time and patients, anyone can have and enjoy a marine aquarium today.

Systems have come a long way in a short amount of time; the culture of marine organisms for the marine ornamental industry has not been so quick. There have certainly been advances. For those who remember Frank Hoff and Tom Frakes of Instant Oceans Hatcheries, and Martin Moe, pioneers of marine ornamentals, successfully spawning and rearing just a couple species of clownfish was a major accomplishment. Today, there are dozens of clownfish species and their hybrids and a handful of other species being cultured around the world. But, still, the vast majority of

specimens are captured from the wild. And, even after years of “preaching” sustainability, many third world collection areas still use destructive harvesting methods (cyanide and dynamite) and ultimately, providing poor quality products to the market place.

So, where’s the “Opportunity” spoken of at the beginning of this article? Many of you work in a part of the aquaculture industry where you already practice many of the culture techniques required to raise marine ornamentals. You have small closed systems. You know how to culture “live feeds” organisms like, rotifers and copepods and how to enrich and feed them to larval fish and shrimp and mollusks. You know how to harvest and handle delicate critters. Culturing marine ornamentals isn’t easy, but what you’re doing now isn’t easy either. It takes dedication, attention to detail and most of all, passion for the work and a slimy thumb. You already have all that.

So what’s the catch? There are a few. Competing with the wild caught industry is difficult, they will always be cheaper. But, when your product is better quality, your fish live longer for the hobbyist, they are more robust, more active; they will be satisfied customers, requesting your products again when they make future purchases to expand their hobby. Establishing yourself is also a long haul. You will have to start small, develop your product line slowly. Learn to culture different species as you grow. A short cut here is to coop with other growers. The giant, Ekk-Will tropical fish operation in South Florida started off raising a few species and initially cooped with other framers to expand their offerings. Get good at raising a couple different critters and find 4-5 other operations that can work together. And last but not least, hire some expertise. Find some youngster fresh out of college that has the passion for the industry, that cut their teeth raising clownfish or corals as a hobby, and let them help you kick start your diversification.



## US Seafood Trade Deficit Surpasses \$10 Billion for the First Time

The following is information passed to TAA from Gary Jensen. It is an annual analysis of trade deficit data done by Joe Myers with the New Jersey Department of Agriculture. It was recently published in the Ramblings Newsletter of the National Association of State Aquaculture Coordinators. Over the years some people are still misquoting these data. Please review the tables and text below prepared by Joe for your reference. It is certainly noteworthy that the seafood trade deficit continues to worsen and has now topped \$10B annually with a national ranking of 18.

The seafood trade deficit is an often quoted, sometimes misconstrued figure central to the justification for domestic aquaculture development. I've shared my views in previous issues of this newsletter that drawing the proper message from the data is important to helping to shape the realities and expectations on domestic aquaculture development. As you are well aware by now, the data does not support the "#2 behind crude" postulate. I suspect that I am hearing that argument less and less, but I am unsure if it is a function of spreading the right message, or if it is because my travel restrictions keep me from the venues where the domestic aquaculture story is told. The NASAC network is very influential in helping others get the message right because we have access to the key officials and advocates that have a shared interest and responsibility in communicating messages about the status and potential of aquaculture.

Let's talk about the data. The seafood trade deficit just nudged above the \$10 billion (\$10.067 billion) mark in 2010. This is the first time this figure has moved above this benchmark. This figure is derived from subtracting the net export value of the trade category (\$4.566 billion) from the import value (\$14.633 billion). These figures are reported by US Census Bureau, Foreign Trade, reported by end-use code. The previous years' figures are adjusted when a new year is reported, so it will be interesting to see if the 2010 trade deficit for fish and shellfish remains above the \$10 billion mark when 2011 numbers are released.

Passing the \$10 billion mark itself is really only interesting because I had to widen my Excel column to accommodate the extra digit. Ten billion should really be no more significant than any other number. What is interesting is comparing the trend in the seafood trade deficit to other information in the broader trade deficit analysis. Aside from the significant reduction ( $R^2=0.8965$ ,  $p=0.000$ ) in the seafood trade deficit figure in 2009 (\$8.922 billion) due to the recessed economy, the

trend continued toward a growing deficit (see figure). Seafood remains the largest contributor to the trade deficit among all food items, with wine and wine products at #2. Although these ranks fluctuate among all trade categories, seafood and wine have been the largest and second largest trade deficit contributors among food items since 2000. Green coffee and cocoa beans also reached record imports in 2010. Since no exports are reported for either of these products (which I find hard to believe given coffee production in Hawaii), imports equal deficits. Seafood alone exceeds raw coffee and cocoa deficits combined by nearly double.

Conversely, trade surpluses are a common fixture of certain agricultural products. Feedstuffs and food grains are again the largest contributor to the trade surplus in 2010, having been edged by civilian aircraft and parts in 2008. Also showing record surpluses are other sectors of agriculture: meat products, poultry, and edible animals; nuts and preparations, and dairy products and eggs. This provides an interesting contrast to seafood and shows terrestrial agriculture, where we see record trade surpluses; and aquatic agriculture, where we see record trade deficits are headed in opposite directions. This indicates that we have the physical capacity to lead the world in food production sectors. The same is true for aquaculture, but the barriers are not technical in nature. The barriers that exist for aquaculture occur largely off of the farm and include political, social, business issues that have not been adequately resolved like they have been in terrestrial agriculture.

One final piece of information, which emerged as a topic of discussion at Aquaculture America '11 in New Orleans, adds to the likelihood that we may see a growing divergence in trade figures between terrestrial and aquatic production. Although China produces roughly two-thirds of the World's seafood, China is projected shift from a net seafood exporter to a net seafood importer in the not too distant

future. The emergence of the economic middle-class in China is creating demand for seafood as their economy grows and disposable incomes rise. Since imports constitute roughly 85% of the seafood consumed in the US, this China shift will likely present significant supply and pricing

challenges to the US and to the world. Given these emerging developments in global seafood, I plan to keep an eye on future trade deficit figures to see if we see a significant trade deficit figure, only on the other side of the confidence limit than in 2009.



## Catfish Processing Down 36 Percent From Last Year

Friday, May 20, 2011 / NASS

Donna received this article from Reed Breedlove early in May. To those of you in the catfish business, this probably isn't new news, and it certainly isn't good news, but, it's news never the less.

Farm-raised catfish processed during April 2011 totaled 23.6 million pounds round weight, down 36 percent from April 2010. The average price paid to producers was \$1.14 per pound for April 2011, up 6.6 cents from last month and 33.7 cents above a year ago.

Net pounds of processed fish sold during April 2011 totaled 14.0 million pounds, down 24 percent from the comparable month in 2010. Sales of fresh fish, at 5.16 million pounds, were down 28 percent from April 2010 and represented 37 percent of total sales. Frozen fish sales, at 8.82 million pounds, were down 22 percent from a year ago and accounted for the remaining 63 percent of total fish sales. Sales of whole fish represented 20 percent of the total fish sold, fillets accounted for 58 percent, and the remaining 22 percent were mostly steaks, nuggets, and value added products. The total end of the month inventory decreased 22 percent from last month and was down 58 percent from a year ago.

The total fresh and frozen average price for April 2011 was \$3.37, up 89 cents from a year ago.

The April 2011 average price received by processors for total fresh fish was \$3.24 per pound, up 86 cents from last year. Prices for fresh whole fish were \$2.28 per pound, up 73 cents from April 2010. Prices for fresh fillets were up \$1.21 from a year ago at \$4.43 per pound. Total frozen fish averaged \$3.44 per pound, up 90 cents from April 2010. Prices for frozen whole dressed fish were up 68 cents at \$2.92 and frozen fillets at \$4.07 per pound were up \$1.14 from a year ago.

Imports for consumption of *Ictalurus* spp., *Pangasius* spp., and other catfish of the order Siluriformes for March 2011 totaled 9.13 million pounds, up 20 percent from the amount imported in March 2010. Imports were from China, Indonesia, Malaysia, Thailand, and Vietnam. The *Ictalurus* spp. Imports totaled 211 thousand pounds, which were from China and Indonesia.

Fresh catfish fillet exports totaled 42.3 thousand pounds, with 40.8 thousand pounds going to Canada and the rest going to Equatorial Guinea. Exports of frozen catfish fillets reported for March 2011 totaled 2.2 thousand pounds, going to Australia and Japan.

Import and export data are compiled by the United States Census Bureau.



## 26th Annual Texas Shrimp and Marine Finfish Culture Course

The date has been set for Texas Sea Grant's 26th Annual Texas Shrimp and Marine Finfish Culture Course, Sept. 28-Oct. 4, 2011 in Port Aransas. More information will be available

this summer on the TAA web site and the Texas Sea Grant web site or contact Granvil Treece at g-treece@tamu.edu.



### 2011-12 Calendar

June 6-10	World Aquaculture Society Conference Natal, Brazil
July 21	Deadline to Register for 4P's of Safe & Sustainable Aquaculture
July 27	VATAT Professional Development Conference Dallas, TX
August 10	4P's of Safe & Sustainable Aquaculture San Marcos, TX
August 10	TAA Board Meeting, AE Wood State Fish Hatchery
September 28- Oct 4, 2011	26 <sup>th</sup> Annual Texas Shrimp & Marine Finfish Culture Course Port Aransas, TX
October 24-26	Texas Aquatic Plant Management Society Conference Mayan Ranch, Bandera, TX
January 25-27, 2012	Texas Aquaculture Association Annual Conference & Trade Show Bay City, TX





# Texas Aquaculture Association

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## The Four P's of a Safe and Sustainable Aquaculture Industry: Practices, Presentation, Promotion and the Press



National Workshop coming to Texas  
**August 10, 2011, 9:00a-3:00p**



**Supple Building, Room 116  
San Marcos, TX**

**\$15.00 (includes lunch)**

The National Aquaculture Association (NAA) and the United Soybean Board have teamed up with the Texas Aquaculture Association to sponsor an important one-day workshop. This workshop is prepared especially for fish & shellfish producers, buyers, educators and government regulators. Instructors include: Dr. Andy Goodwin-University of Arkansas at Pine Bluff (UAPB), Dr. Nathan Stone of the University of Arkansas at Pine Bluff (UAPB), Linda O'Dierno, NAA Outreach Coordinator, Betsy Hart, NAA Executive Director and Dr. Delbert Gatlin III, Texas A&M University (TAMU). More information can be found on our website: [www.texasaquaculture.org](http://www.texasaquaculture.org).

### Four P's Workshop Registration Form

Deadline: July 21, 2011

Name \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_ City/St, Zip \_\_\_\_\_

Telephone \_\_\_\_\_ Email Address \_\_\_\_\_

**Cost for the workshop is \$15.00. This fee includes lunch.**

Sub Sandwich preference: Ham \_\_\_\_\_ Chicken \_\_\_\_\_ Veggie \_\_\_\_\_

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