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## **March 11 & 12, Pewaukee, WI 2011 AQUACULTURE CONFERENCE**

We have been asked many times about holding the conference at a destination hotel. Well, we have one! For 2011 not only were we able to get a great location at a reasonable rate, but it is also has a great water park. We have booked the Country Springs Hotel & Waterpark, located in Pewaukee WI, west of Milwaukee. This will be a great opportunity to have a family vacation along with attending a great conference.

The conference schedule will be similar to last year's: we will again have the Trade Show, silent auction, Wisconsin Schools Aquaculture Poster Contest, and breakout session for baitfish/gamefish, trout, beginning aquaculture and aquaponics, as well as the vendor breakout session. Friday's lunch talk will be "Focus on Wisconsin Farms: Rushing Waters Fisheries". Friday evening will start with Christine Lindner - the 63rd Alice in Dairy-

land - followed by the Cutting Demo & Retail Showcase, ending with Taste of Wisconsin Cooking Demo/reception (You won't go away hungry!) and our very own adopted chef, Dani Klontz.

Our confirmed topics are:

Water: It's Status in Other States and What We Need to Do in Wisconsin

Comparing the Economics of Pond Systems and RAS for Perch Culture

Pond Management

Fish Processing

UW Extension Updates

NCRAC Technical Committee Extension Update

Update on "A Consumer's Guide to Fish"

Solar and Wind Aeration

continued on page 4

### **DATCP & UW-EXTENSION COLLABORATES ON "CONSUMER GUIDE TO FISH"**

By Mike Bandli, DATCP Economic Development Consultant

A tool is being developed by DATCP, UW-Extension and NADF to help fish farmers market their fish, their farms and the industry from the farm level. The idea for the Consumer's Guide for Wisconsin Fish stems from several past models.

The first model was presented by a speaker at the aquaculture conference several years ago. He suggested having documented fact sheets or articles available for consumers to address questions or concerns they may have regarding Wisconsin Farm-raised fish. More recently, the "4-P's" workshop this spring, suggested fish farmers can communicate the tough, existing regulations and production standards they work under as a way to educate consumers of the value of Wisconsin fish.

The goal of our guide is to compile available public information; articles, websites, reports, even regulatory information, into a simple, useable document that producers, consumers or the media can use as a quick reference tool for Wisconsin aquaculture. The tool can then be used by the industry as a framework to talk about aquaculture issues with the public and help promote Wisconsin aquaculture in a positive light. Ron Johnson, UW-SP NADF Aquaculture Outreach Specialist, introduced an initial draft of the consumer's guide at the June WAIAC meeting. We plan to get fish farmer feedback on each section of the guide and have most of the current sections available and presented at the March, 2011, Wisconsin Aquaculture Conference. Remaining sections will be completed by June, 2011.

### **DATCP Encourages Fish Farmers to Provide Recommendations on Changes to the Current Fish Farm (Fish Health) Rules**

In 2010, the Animal Health Division of DATCP has compiled comments and recommended changes to the current fish farm rules that were provided by individual fish farmers, the Ad Hoc Aquaculture Industry Advisory Committee, DNR, and University of Wisconsin fish researchers. The next step is to draft a rule, based on these comments, that can be presented to the DATCP Board for review. This is currently scheduled for the Board's March 2011 meeting.

Everyone is encouraged to continue to provide comments to the Division of Animal Health of DATCP, and especially provide recommendations with specific changes to the current rule. If the Board approves the draft rule then the rule will be open for public comments, and then a final draft will be presented for review to the Wisconsin Legislature. After final approval the rules will be put into effect and replace the current rules. Now is your opportunity to provide input to make the rule work well.

E-mail comments to [DATCPanimals@wi.gov](mailto:DATCPanimals@wi.gov)

Or Fax 608-224-4871

Or send to:

WDATCP

Division of Animal Health

Aquaculture Program

2811 Agriculture Dr.

Madison, WI 53708-8911

# The CREEL

December 2010 Volume 43\*\*\* Number 4

WISCONSIN AQUACULTURE ASSOCIATION

www.wisconsinaquaculture.com

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## WISCONSIN AQUACULTURE ASSN. COMMITTEES

The following are committees that were formed at the June meeting. If you are interested in joining any committee, please contact any committee member. The effectiveness of our committees and our organization are based on membership participation.

Committee	Members
<b>Business Development</b> Creation, review and development of business development tools for aquaculture	Peter Fritsch, Sarah Kaatz
<b>Research &amp; Education</b> Coordination and review of research, training, educational programming	Dan Gruendemann Jim Held
<b>Regulatory Policy</b> Coordination, review and impact assessment of regulatory actions	Dave Gollon Terry Hogan Ron Johnson
<b>Perch</b>	Dan Gruendemann
<b>Budget</b>	Jeff Taylor Terry Hogan Peter Fritsch Cindy Johnson

---

### Aquatic Nuisance Species Task Force - Aquaculture Member

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### MEMBERSHIP CATEGORIES

Active (voting): \$50/ year, Associate (non-voting): \$25/ year  
Group(1 vote): \$75/ year, All memberships RUN NFROM January to December and include annual subscription to *The CREEL*

*The CREEL* reaches many potential customers four times per year. If your business involves the growing or selling of any aquaculture product or any necessary equipment, feed or services, advertising will be a great benefit to you.

The CREEL goes to press the 1st of February, May, August, and November. Please submit photo-ready ad copy and payment to the Secretary/Editor 1 week prior to this for inclusion in the upcoming issue. Rates per issue are as follows:

1/8 page: \$30; 1/4 page: \$40; 1/2 page: \$60; Full page: \$100

# PRESIDENT'S MESSAGE

## JEFF TAYLOR - STAR PRAIRIE TROUT FARM

Well, the end of another busy year. People are still concerned about where their food is produced and continue to buy local. Even in these economic difficult times, the public buys local vs. imports whenever they can.

So that's the good news for aquaculture. The problems we are facing are regulatory. So many of the proposed rules do not take into account small businesses - actually micro-businesses. For instance, one of our members, Tim Winkel, was looking at the same level of water use fees as Milwaukee would be paying! Fortunately, his state senator, Senator Holperin, Ron Johnson, Aquaculture Specialist, and WAA got involved and limits were incorporated into the proposed rules. We have gained a victory with the water use fees, (see page 13 for details), but we need to get involved with other upcoming rules.

On the Federal side, the USFWS Petition to Halt the Spread of Amphibian Disease, Chytrid Fungus, on the surface may not seem a big deal. But, factor in that it will get the Lacey Act involved on it's enforcement, that will be a BIG detriment to aquaculture not only in WI but the US. I urge you to send in your comments against this petition (see page 15 under Regulatory Committee for more info).

DATCP is planning to change the current fish farm rules. DATCP is asking for your input - this is your chance to have a

say on these rules. Think through how the rules could be more efficient, address issues of concern, etc and send them to DATCP (See page 1). There will also be a listening session the Thursday before the conference to discuss the proposed changes.

On the subject of the conference - I feel we have a great conference in store for you. We had a lot of interaction and information sharing at the 2010 conference and this one is shaping up to be just as good, if not better. There is a lot of information that we want to get out to you as Wisconsin fish farmers and also a lot of information that encompasses U.S. aquaculture. We hope not only to have a good turnout of WI farmers, but also farmers from surrounding states. We are the only annual regional conference and we try to keep the costs down so as many farmers as possible can attend. The talks and networking help us all to improve our businesses and it helps to solidify our industry. So check your calendars, mark the dates down and plan on attending. And bring the family - the Country Spring Hotel also has a fantastic waterpark (check it out online at [countryspringshotel.com](http://countryspringshotel.com)).

May you have a Joyous Christmas and a very Happy New Year with your families, friends and loved ones!

Jeff

### TABLE OF CONTENTS

2011 Aquaculture Conference	1
DATCP & UW-Ext Collaborates on "Consumer Guide to Fish" - Mike Bandli, DATCP	1
DATCP Encourages Fish Farmers to Provide Recommendations to Current Rules	1
WAA Committees	2
President's Message - Jeff. Taylor	3
From the Editor - Cindy Johnson	4
Wisconsin Aquaculture Specialist Appointed to ANS Task Force	4
USTFA & NASAC Joint Conference - Ron Johnson	6
Beginning Aquaculture Workshop Held in Juneau - Jim Held	8
Alfred Palmer: Wisconsin Pioneer Fish Farmers - Steven E. Yeo	8
Iron Problem in Ponds	9
Midwest Tribal Aquaculture Workshop - Sarah Kaatz	10
September Member's Picnic Held at Bullfrogs Eat My Fish Farm	10
Secretary Locke to Appoint Special Master to Review NOAA Law Enforcement Cases	11
Updates from Around the World - Certifications and Standards	12
Regulatory Committee Updates - Ron Johnson	13
NAA Letter of Comment on USFWS Petition	15

Business Development Committee - Sarah Kaatz	16
Kasco Marine Receives Award	17
Additional Concerns & Issues with USFWS Petition - Chris Weeks	18
Research Updates from Around the Country & World	19
Finances & Funding Opportunities	21
Changing of the Guard at Trout Palace - Jim & Cathy Pierce, Miranda Pollock & Christine Raymond	22
WAA Board Meeting Agenda/Minutes	23
Bits & Pieces	24
Wisconsin Marketing Opportunities	25
Calendar of Events	25
Settlement Reached in Seafood Fraud Investigation	25
Dr. Wayne Schaefer Blue Walleye Study Update	26
Cook's Corner - Smoked Trout Pecan Crostini	26

The CREEL is published quarterly, March, June, September and December; WAA welcomes input and involvement from all interested parties.

Unless otherwise indicated, all articles are authored by *The CREEL* editor and/or WAA editorial committee. Editorial comments pertinent to other submissions are italicized and noted in parenthesis (ed.)

All opinions expressed in *The CREEL* are those of the contributor/author and not necessarily those of the Wisconsin Aquaculture Association, its officers or directors.

From the Editor - Cindy Johnson

Looking back on this year - it has been a very busy one. Next year we will have a similar schedule - Beginning Aquaculture workshops, June Field Days, a presence at several events (Kid's Fishing Day, WAAE Conference, and possibly Farm Tech Days), but the VHS/HACCP workshop series is completed. None of these things would be possible without you - so Thank You! to each and everyone of you for your support and continued membership in WAA. And on the note of membership, dues expire on December 31 of each year, so notices will be sent out soon.

I am really excited about our 2011 conference. I have checked each year on having the conference at a theme hotel - the Dells have been suggested - but the conference costs have been way out of our reach. When Country Springs contacted me this year, I was expecting the same, but was surprised and we tied down the dates. I really hope you can set aside some time to attend this year and take advantage of their waterpark for your families. The one thing I really urge you to do is make your room reservations ASAP - the room rates will expire on Monday February 7. If you decide you can't make it, you can cancel 72 hrs prior to arrival to avoid any penalties. Also register for the conference as early as possible so I can confirm numbers for the meals. As before, you can preregister and pay at the door if you wish.

May you all have a wonderful Holiday and enjoy the company of family and friends this season!

Cindy

Wisconsin Aquaculture Specialist appointed to the Aquatic Nuisance Species Task Force

The National Association of State Aquaculture Coordinators (NASAC), has appointed Ron Johnson to the Aquatic Nuisance Species Task Force (ANSTF). Ron, one of the Aquaculture Outreach Specialists with UW- Extension, is also the Wisconsin State Coordinator and Board Member of NASAC. The ANSTF is an intergovernmental organization dedicated to preventing and controlling aquatic nuisance species, and implementing the Nonindigenous Aquatic Nuisance Prevention and Control Act (NANPCA) of 1990. The Task Force consists of 13 Federal agency representatives and 12 Ex-officio members, and is co-chaired by the U.S. Fish and Wildlife Service and National Oceanic and Atmospheric Administration. NASAC has had a seat at the table since the conception in 1990 and is the only livestock group with representation. Paul Zajicek, from Florida, has held the position for many years and has done an excellent job in representing the US aquaculture industry to ensure the task force is representative of the stakeholders, makes decisions based on science and not erroneous speculation.

There are two meetings a year, one fall and the other in the spring - NASAC will pay for my expenses to travel to the meetings - the first one is November 3-4, 2010 in Washington DC - spring meetings are held around the country in coordination with regional ANS panels.

Conference, continued from page 1

Current Status of VHS in Wisconsin  
Genetically Modified Salmon - Facts and Fiction  
Marketing and Promoting Your Business

We have number of other talks tentatively scheduled and when we have confirmation they will be posted on our website.

Conference registration rates have stayed the same: \$100/WAA member, \$85/employee, \$65/spouse. A brochure with registration will be mailed out or you can go online to register.

Please register as soon as possible so we can have an accurate count for the lunches. You can also pre-register and then pay when you arrive.

LODGING INFORMATION

A standard deluxe is \$89/night single or double, if you want waterpark passes the room rate is \$109/night (includes up to 4 passes), plus tax. Children 16 and under are free, additional adults are \$10/night. Room rate includes continental breakfast. Cancellations without penalty are 72 hours prior to arrival. Rates will cover from Wed March 9, checking out Sunday March 13, 2011.

Please Note:

Lodging rate cutoff date is Monday February 2, 1011, after than reservations are on a space available basis at the prevailing rates (could be \$40 more per night). The conference rate will not be honored.

Hotel Information:

Country Springs Hotel & Waterpark  
2810 Golf Road  
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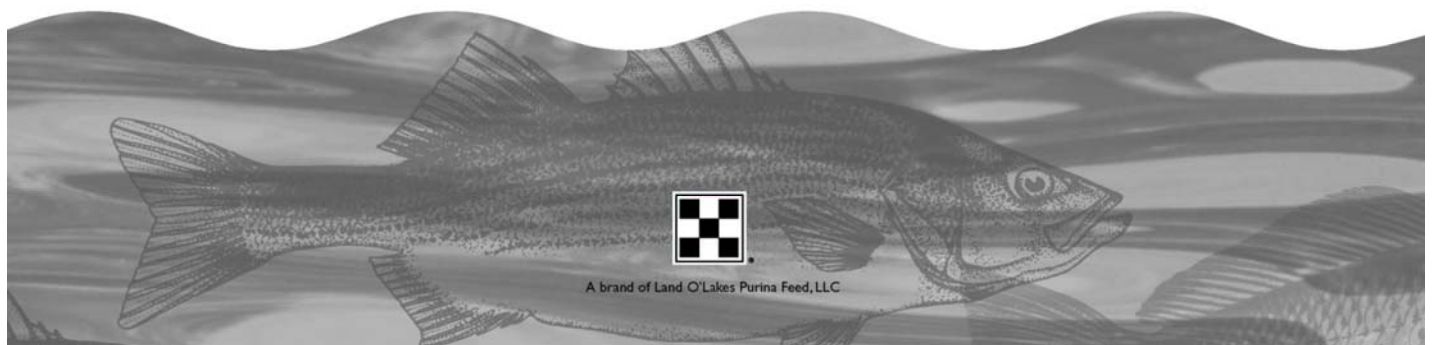


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# US Trout Farmers Association & National Association of State Aquaculture Coordinators Joint Conference

By Ron Johnson, Aquaculture Outreach Specialist

The USTFA and NASAC held their joint annual conferences at the Lodge of the Ozarks in Branson, Missouri September 8-11, 2010.

With tough economic times it only makes sense to combine forces and share resources, providing an outstanding set of speakers and double the networking possibilities; plus Branson is a family fun town located in the heart of the United States.

The USTFA is the oldest commercial aquaculture trade organization in the United States. It was organized in 1954 by a group of trout farmers interested in creating a strong, unified voice for the national trout industry. The National Association of State Aquaculture Coordinators (NASAC) is an affiliate of the National Association of State Departments of Agriculture (NASDA). The Coordinators are responsible for coordinating aquaculture programs at the State or territorial level. The purpose of NASAC is to promote, to encourage, and to assist the development of aquaculture in the United States by enhancing communication among Federal, State, local, and tribal governmental agencies; agricultural research and extension institutions; and trade and marketing organizations. As a former trout farmer and current Wisconsin State Aquaculture Coordinator this was a must attend conference.

The NASAC annual conference allows state coordinators the opportunity to network with other coordinators sharing issues, concerns and successes with aquaculture programs each year. Items of interest this year were the Feed Stimulus Program just announced by USDA, USFWS enforcement of the Lacey Act, water rights and fees, shrinking

budgets with added responsibilities, ANS species updates and trends, and the general down trend in aquaculture sales. Global competition, in some cases of products of uncertain quality, plus the added burden of additional regulations both state and federal has caused their toll on the aquaculture industry. However it was agreed that the Buy Local and Fresh movement has opened up market opportunities in many states.

The general sessions were highlighted with a great lineup of speakers: Dr. Gary Jensen, USDA NIFA – “A Look Back and Glimpse Forward in Perspective to Now”; Kevin Amos, NOAA Aquaculture Program –

“NOAA’s Role in Advancing a New Federal Policy for Marine Aquaculture”; Dr. Randy MacMillan, Vice President, Clear Springs Food – “Water: Rights and Usage”; and Mitt Walker, Alabama Aquaculture Coordinator – “How the Catfish Industry Changed Over the Last 5 years and Why”. There were also talks on fish health and diseases, interstate transport of live aquatic animals, marketing strategies in changing global marketplace, and challenges that face the industry.

The real uplifting portion of the conference were talks by Marvin Emerson of Crystal Lake Fisheries and Larry Cleveland of Ozark Fisheries sharing how their businesses have been managed over the last 60 and 84 years, respectively, to deal with the changes they have seen. Leo Ray, who owns Fish Breeders of Idaho, offered strategies for marketing fish to increase sales and shared how he is using different species to actually cut his production costs.

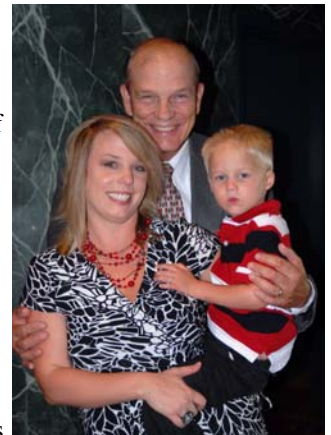
Crystal Lake Fisheries celebrated their 60<sup>th</sup>

year in operation sponsoring the Friday night Banquet with a trout dinner and a narrated retrospect of 60 years of operation. Marvin Emerson did a marvelous job of entertaining the audience with stories of family and employees. In fact all of the family plus all of the workers and their families were in attendance – a true generational perspective. Marvin commented that, “his father’s job was to learn how to raise trout; his job was to learn how to market the trout and his children’s job will be to learn how to keep the farm will all the regulations.” The evening was capped when the USTFA awarded Marvin – their annual “Ugliest Trout Farmer” honor.

The post conference tours included Crystal Lake Fisheries and Rainbow Trout & Game Ranch. The trout ranch is interesting because they are allowed to grow trout and stock a portion of a river that runs through the property – charging guests for the opportunity to fish – making it a private river. They also have a great restaurant where of course trout is the featured entrée. Next year the USTFA will go to Idaho for their fall conference and NASAC heads to the East Coast in Virginia.



NASAC Members Robins Buck (VA), Mitt Walker (AR), and Scott Leach (CO)



Marvin Emerson with daughter Jennifer Boaz and grandson Landon



Paul Zajicek (NASAC, FL), Ken Cline (Cline Trout Farms), Chris Nelson (Silver Cup)



Conference attendees touring Crystal Lakes Fisheries

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## Beginning Aquaculture Workshop Held in Juneau

By Jim Held, Aquaculture Outreach Specialist



Randy Roeseler talking to workshop attendees

The UW Extension aquaculture specialists, in conjunction with WAA conducted their final Beginning Aquaculture Workshop for 2010 at Randy Roeseler's Woods and Waters Enterprises Fish Farm in

Juneau on September 25<sup>th</sup>. There were 29 attendees with a variety of interests in aquaculture and aquaponics. The program featured talks on Aquaculture in Wisconsin, Rules and Regulations and Business and Facility Planning for Aquaculture as well as a discussion of economic models useful to fish production. Participants were also supplied with an informational packet containing promotional, educational and regulatory — publications to assist their decision-making and business planning. This was by far the largest turnout of the year for these workshops and emphasized the interest in aquaculture/aquaponics in the Southern part of the state. The popularity of this workshop aided in the decision to hold the 2011 WAA Annual Conference in Waukesha to take advantage of urban interest.

At noon Randy broke out the grills and served-up a barbecue lunch. The afternoon activities included a tour of the farm with an emphasis on pond production, windmill aeration and marketing. Randy discussed his pond construction techniques, plans for expansion of his pond systems and the addition of a new building for propagation.

The Beginning Aquaculture Workshops have been a successful part of aquaculture extension programming and will continue through 2011. The extension specialists expect to conduct 3 beginner's



workshops next year at sites to be determined. We are always interested in new sites so if you would like to host a workshop at your farm, talk to one of your extension specialists.

This article appeared in a past issues of The Creel

## Alfred Palmer: Wisconsin's Pioneer Fish Farmer

By Steven E. Yeo, UW Great Lakes WATER Institute

A founding father of fish culture in Wisconsin, Alfred Palmer was one of the first to develop a private fish farming operation in Wisconsin in the era immediately following the Civil War. Palmer was born in Christian Co., Kentucky and came with his parents to Illinois while still a boy. In 1837 he came to Dubuque, Iowa and then in 1839 to Grant Co., WI. Following that he remained a resident in Iowa Co., WI. He was a farmer and engaged in the merchandising business in Grant and Iowa Co. for thirty years.

His initial efforts at fish culture took place as early as 1864 on Sanders Creek in Grant County. In 1866 he established a second fish hatchery on Crooked Creek in the town of Boscobel, where he continued his effort to promote and advance fish farming through 1884. This operation on Crooked Creek had a more constant water supply than the former site and consisted of nine ponds that totaled approximately one acre. He started with about 300 brook trout as broodfish from which he succeeded in raising about 5,000 young trout the first year. By the 1880's the total annual production from Palmer's hatchery was 200,000 trout fingerlings, some of which were sold to other fish culturists and 10,000 to 20,000 fingerlings were stocked into his own ponds. Palmer shipped trout eggs through out our region and beyond. In January 1873 the first hatchery facility in Colorado, started by James Broadwell on the South Platte River, got its trout spawn in excellent condition from Palmer's Boscobel hatchery. They received twenty cans containing one thousand eggs each, neatly packed in damp moss. The entire lot was then enclosed in a large box filled with damp sawdust. Using these techniques, Palmer shipped eggs as far west as the Hawaiian Islands. Palmer's annual commercial sale of marketable trout as food averaged 2,000 pounds. Palmer's efforts to successfully develop fish farming in Wisconsin place him as a contemporary of Seth Green and several other famous pioneer fish aquaculturists of North America.

Contemporary with Palmer's fish culture operation, significant declines in the abundance of wild fish populations were occurring. These changes were principally due to unregulated exploitation and changed land use, associated with forest clearing and development. Early fish farmers and local scientists were recognizing the necessity for conservation efforts. One popular idea that initially caught on with contagious enthusiasm was the application of artificial propagation and stocking of fish for rehabilitation of wild populations.

The U.S. Government established a federal fish commission to advance this cause. The arrangement was that each state would appoint fish commissioners to receive and distribute eggs and fry in their own state and cooperate in the general effort. Alfred Palmer was appointed as one of the first three individuals to serve as Wisconsin Fish Commissioners by Governor Taylor in 1874. Palmer served as commissioner from 1874 through 1877. During his tenure, the first state effort to establish a state operated hatchery was carried out by Palmer's son John in Pensaukee, WI in the fall of 1875. At that site he artificially *continued on page 9*



fertilized and incubated approximately 350,000 whitefish and 200,000 lake herring eggs collected from Lake Michigan. The following year the state fish commissioners purchased the site at "Nine Springs" in Fitchburg just south of Madison and set up another hatching operation in the North Point Waters Works in Milwaukee. The site near Madison eventually was developed into what is now named the "Nevin" hatchery, after the chief hatchery superintendent for the state in the 1890's.

As one of the first Wisconsin Fish Commissioners, Alfred Palmer was a forerunner of the Wisconsin Conservation Commission that eventually was transformed into the Department Natural Resources. In this sense, the efforts of the early fish commission foreshadowed the modern conservation movement of our era. Early private fish culturists like Palmer should be credited with initiating the application of artificial propagation for reversing the decline in the natural resource of their time.

Palmer recognized the potential of fish culture as an agricultural enterprise for our state. In the 1881 publication "History of Grant County" Palmer is quoted as follows: "The farmer can raise trout in proportion to the spring water he has, and can raise them cheaper than any other meat food, as a limited number of trout will live in pure water on the insects breeding in it."

After stepping down as Fish Commissioner in 1877, Palmer continued to operate his private farm in Boscobel until 1884. Following that date he left his farm to live in the city.

Sources

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**Iron Problem in Ponds**

*I am on the Aqua Ohio list serv and recently a farmer had a question about iron in his ponds - Cindy*

**Situation:**

I've had good luck for the most part growing out trout each year around to trophy size for a niche market in a 1/10 acre outdoor pond running in 45 gpm of aerated well water (packed column). However I'd like to build a smaller pond that has more water exchanges which has obvious advantages. And I prefer to use the former trout pond as a holding pond for warm water and coolwater broodfish. This time it would be built below some elevation, would be lined, and esthetically pleasing with a waterfall. Some recirculation would be incorporated. However herein lies the problem: Precipitated iron which runs about 2.5 ppm. In the 1/10 acre pond it appeared as a light green due to being *continued*

diluted by the 100,000 gallon pond and wasn't too much of a problem. With a smaller pond it's most likely to appear an unsightly brown and could irritate the gills of the trout, although it's not as bad with the largest fish from my experience.

I've figured out how to remove precipitated iron in small quantities of well water mechanically for my indoor RAS by recirculating it through a couple of 55 gallon pumps via small pump and 'u-tube' siphon where the iron has to make its way up through filter material (bunched deer fence netting), and get trapped in it, but for much larger quantities of water this would not be feasible. I suppose another alternative is to allow it to settle in a pond or basin before it gets to the trout pond but it's not really feasible as in the process it would warm up significantly in the summer.

**Reply:**

In several commercial aquaculture installations we have used a combination of vigorous aeration followed by settling basins (about 2 cu. yds / 5gpm) filled with 4" sections of plastic corrugated field tile, with a skimming weir at the end and immediate use thereafter. At our own location this system was suitable for treating water with 3.5ppm total Fe and for rearing rainbow trout.

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## Midwest Tribal Aquaculture Workshop

By Sarah Kaatz, Aquaculture Outreach Specialist,



Marvin Defoe, Red Cliff Tribal Vice-Chair

The Midwest Tribal Aquaculture Workshop was held this summer in Bayfield and Red Cliff, WI. It was sponsored by the Red Cliff Band of Lake Superior Chippewa, the Department of the Interior Bureau of Indian Affairs and the Native American Fish and Wildlife Society along with the University of Wisconsin-Extension (UWEX) and University of Wisconsin Stevens Point-Northern Aquaculture Demonstration Facility (NADF). The workshop was held August 10-11<sup>th</sup>; thirteen tribes from Wisconsin, Minnesota and Michigan were represented and the event was attended by nearly 50 people. Opening remarks

were from Marvin Defoe, the Red Cliff Tribal Vice-Chair who talked about the importance of working together. He was followed by Tribal introductions and each tribe gave an overview of their current projects.

The two day event was filled with presentations and discussions on a variety of topics. Fish culture presentations included Larry Wawronowicz from the Lad du Flambeau Tribe who talked about their production of walleye, Matt Symbal from the Red Cliff

Tribe discussed trout culture, Jen Bailey from the US Fish and Wildlife Service talked about sturgeon culture, and Jim Held, UWEX, discussed yellow perch culture.

Other topics included recirculation aquaculture system technology presented by Greg Fischer, NADF, pond management by Jim Held, water quality and biosecurity for aquaculture facilities, both presented by Sarah Kaatz, UWEX, and aquaponics was *continued*

*"We are no more going to get our seafood from the wild than we get our beef, nuts, fruit from the wild," predicts Kevin Fitzsimmons, a professor at the University of Arizona and former president of the World Aquaculture Society.*

Features October 21, 2010, 5:00PM EST

From China, The Future of Fish Meet the Chinese tilapia.

By Bruce Einhorn

## Tribal Workshop, continued



discussed by Ron Johnson, UWEX.

In addition to the presentations, which were all held at The Pavilion in Bayfield, there was ample opportunity

for networking, and the event also included tours of local facilities. The afternoon of the first day was spent at NADF where Greg Fischer and his staff gave a tour of the facility and discussed current work being done, including the exciting hybrid walleye study. That evening participants were treated to a fish fry dinner of the NADF walleye. The gathering took place at Little Sand Bay Park on the shores of Lake Superior, and was a fun evening for all. The next day, participants visited the Red Cliff Tribal Fish Hatchery where Matt Symbal and his staff discussed their ongoing.

Overall, the workshop was a success with participants requesting an event like this be held again in the future.

## September Member Picnic Held at Bullfrog's Eat My Fish Farm

This past September, WAA had it's member's picnic at Bullfrog's Eat My Fish Farm. This annual get together was started a number of years ago, and was held at the June Field Day



Herby Radmann, Pat Heckert, Jim Pierce, Jeff & Patty Taylor



Dave Sundal Cooking Lunch

for 3 years before resuming rotating to a different member farm each year. The purpose of this was for members to get together, socialize and visit each other's farms. The WAA quarterly board meeting was held just prior to the picnic. It turned out to be a great day for a picnic - members socialized, checked out the farm, got caught up on what was going on, watched Dave Sundal fillet trout and cook up a Hobo Chefin lunch for everyone.

## Secretary Locke to Appoint Special Master to Review NOAA Law Enforcement Cases, Restricts Use of the Asset Forfeiture Fund

Submitted on September 23, 2010 - 5:45pm  
CONTACT OFFICE OF PUBLIC AFFAIRS, 202-482-4883

U.S. Commerce Secretary Locke announced on Sept 23 sweeping reforms to increase accountability and transparency and strengthen the public's trust in NOAA's Office of Law Enforcement and the General Counsel for Enforcement and Litigation. Locke, invoking his authority under the Magnuson-Stevens Act, announced he will appoint the Honorable Charles B. Swartwood, III (Ret.) to serve as Special Master to review enforcement cases the Commerce Department's Inspector General identified in its most recent report as problematic, some dating as far back as 2001. Locke will also ask the Special Master to review the complaints that the IG received that were not discussed in the September Report to see if review of those complaints is also warranted. Judge Swartwood will make recommendations to Locke on whether to take action to modify or remit the penalties.

In addition, Locke announced significant restrictions in the use of the Asset Forfeiture Fund (AFF) to prevent abuse and increase transparency. The new AFF policy goes into effect immediately and prohibits 50 percent of the Fund's historical uses, including the purchase of vehicles and vessels; paying for travel that is not related to investigations, proceedings or training; or paying for training unrelated to an integral part of an employee's job.

"The problems identified by the Inspector General are unacceptable, were allowed to persist for too long and will end on my watch," Locke said. "We are taking the steps needed to make fisheries enforcement accountable and transparent.

"I am committed to helping Dr. Lubchenco wipe the slate clean. As a former prosecutor, I expect law enforcement officers to uphold high standards and maintain the public's trust. We cannot meet our nation's economic and environmental needs without a strong, trusted, enforcement program to ensure sustainable fisheries, vibrant coastal communities and stable economies.

"Proceeds of fines and penalties from fishing violations must never be perceived as being an expense account for law enforcement," Locke said

NOAA continues to work towards other improvements, including:

- Developing a new penalty policy that will be more specific and have narrower penalty ranges and will be made available for public comment.
- Reviewing and revising NOAA law enforcement and general counsel operations manuals.
- Developing a communications plan to provide greater outreach to fishermen and fishing communities, and other fisheries stakeholders.

Locke, NOAA Administrator Jane Lubchenco, and others have met several times with the bipartisan Congressional delegation from New England on fishery-related issues. *continued on page 12*

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In making his announcement today, Locke gave Senator John Kerry, Senator Olympia Snowe, Senator Jack Reed, Congressman Barney Frank, Congressman John Tierney and Governor Deval Patrick credit for keeping these issues at the forefront and thanked them for their continued leadership. For the full story <http://www.commerce.gov/print/news/press-releases/2010/09/23/secretary-locke-appoint-special-master-review-noaa-law-enforcement-ca>

## Updates from Around the World CERTIFICATION & STANDARDS

### Rapid uptake of fishmeal certification programme WORLDWIDE

Thursday, October 21, 2010, 23:40 (GMT + 9)

More than 20 per cent of the world's fishmeal and oil production capacity has achieved certification.

IFFO has announced that, as of end September 2010, there were 47 fully certified factories in four countries utilising six approved fisheries. These together represent more than one-fifth of world production of fishmeal and fish oil, all now with the assurance of being independently assessed for responsible sourcing and responsible production.

The RS (responsible supply) Standard initially applied *continued*

## CERTIFICATION, continued

only to the sourcing of whole fish. IFFO has now announced the extension of the RS to cover the remaining 25% - by-product raw material (trimmings from seafood processing) - which are recycled by the industry into fishmeal and fish oil. In addition, IFFO is now piloting a Chain of Custody extension to its Standard which will enable companies further along the supply chain for fishmeal and fish oil (and their products) to apply for IFFO-RS certification.

Full story: <http://fis.com/fis/worldnews/worldnews.asp?l=e&country=0&special=&monthyear=&day=&id=38774&ndb=1&df=0>

### Update on APHIS Veterinary Service Efforts on Animal Disease Traceability and Implications

Gary Jensen, National Program Leader, NIFA-USDA

We have received numerous inquiries on the status of work underway by APHIS to develop a new, flexible framework for animal disease traceability in the United States as announced in February this year and implications for farm-raised aquatic animals. The following is a short statement prepared by APHS-VS that addresses this question.

USDA APHIS Veterinary Services has had successful traceability through the identification methods used in disease eradication programs, and we will build on those successes. The fundamentals include re-establishing the use of the basic identification methods that have proven to be successful, widely accepted by producers, and cost effective. In general, we are looking at regulating the interstate movement of farm-raised livestock and poultry. Because of the significant void in traceability in the cattle sector at this time, new requirements for the identification and *continued on page 13*



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documentation of cattle moving interstate will be added. For captive cervids, equine, poultry, sheep and goats, and swine, the existing and or new requirements in title 9, *Code of Federal Regulations* (9 CFR), will support the traceability framework. Farm-raised aquatic animals would be considered livestock, however these commodities are not considered a primary focus of the program at this time. For more details about this new initiative visit: <http://www.aphis.usda.gov/traceability/>

From USDA/NIFA

**First global guidelines for aquaculture certification finalized. Consumers will benefit from standardized seafood labels**

1 October 2010, Rome/Phuket, Thailand

The first global guidelines for aquaculture certification have been adopted by the Sub-Committee on Aquaculture of the Committee on Fisheries, part of the UN Food and Agriculture Organization. over 50 countries attended the meeting of the sub-committee, which is the only global intergovernmental forum discussing aquaculture development.

The guidelines, which are non-binding, cover animal health, food safety, the environmental and socio-economic issues relating to aquaculture workers. They will now go to the Committee on Fisheries when it meets in Rome in January 2011 for approval. <http://www.fao.org/news/story/en/item/45834/icode/>

From Indiana Fish Farmers Newsletter

**Global Guidelines for Aquaculture Certification Proposed**

FIS - The Sub-Committee of Aquaculture of the Committee on Fisheries of the United Nations Food and Agriculture Organization (FAO) have adopted a set of global guidelines for the certification of aquaculture products. Click the link below for the complete story.

<http://www.fis.com/fis/worldnews/worldnews.asp?monthyear=&day=4&id=38415&l=e&special=&ndb=1%20target=>

**WWF Working to Establish Trout Standards**

For full article <http://www.worldwildlife.org/what/globalmarkets/aquaculture/troutdialogue.html>

**Regulatory Committee Update**

by Ron Johnson, Aquaculture Outreach Specialist

**Water Use Rules**

In October 2008 President Bush signed into law (Public Law 90-419) the Great Lakes Compact (GLC); Wisconsin had earlier that year passed ACT 227 which included the language for the GLC and additional language that outlined how the GLC would be implemented in Wisconsin. The Department of Natural Resources was charged to promulgate administrative rules to “*Sustainably manage the quantity and quality of water in the state to ensure that water is available to be used to protect and improve our health, economy and environment now and into the future.*”

In 2009 the Department implemented the first part – to register every user within the Great Lakes Basin (GLB) using more than 100,000 gallons of water within a 30 day period. These “users” were “grandfathered” and allowed to continue business as usual but were required to monitor monthly the amount of water “used”.

In March 2010 the Department, established a Water Conservation and Efficiency stakeholders committee comprising of *continued*

individuals from all the known sectors that use large amounts of water within the GLB. Ron Johnson served on the committee representing the Wisconsin Aquaculture Industry.

The committee met twice and offered suggestions on how the Compact would affect each industry. The Department then developed draft language for three Administrative Rules – NR 850, NR 852, and NR 856. In the summer of 2010 public hearings were held and input was gathered from citizens voicing their opinions. The Wisconsin Aquaculture Association filed a letter of concern, objecting to the fees for “withdrawal” of water which was not consumptive - water that is used by fish to survive, but which never leaves the basin. These fees would have a substantial affect on small businesses such as fish farms. The fee structure is a graduated scale starting with users “withdrawing” more than 50,000,000 gallons (about 95 gallons/minute) of water per year and capped at \$9,500.

Ron Johnson met with DNR staff several times at both public and private fish farms before the hearings to get a better understanding of how the fees applied to fish farms and to allow DNR staff the opportunity to view how fish farms operate – using, but not consuming, artesian flow water or water from streams on their property, which has been legal for decades. Staff determined that water, for example such as a river which flowed entirely through a DNR hatchery was not “withdrawn” but water from a river or artesian spring using a structure or a pipe and returned to the river, as the case in several private fish farms, was “withdrawal” and subject to the fee structure.

In Wisconsin, Administrative Rules are promulgated from legislative statutes by staff members of the agency in charge, as outlined in the statute. The rules need to identify economic impact to small business, have public hearings and follow a prescribed set of procedures before they can be voted on by a Board in that agency. In July the DNR Board voted on and passed all three administrative rules relating to the GLC. The rules were then sent to the Wisconsin Senate Environmental Committee where if nothing was done the administrative rule would become law within 30 days.

Tim Winkle, owner of Silver Moon Springs Trout Farm, was very concerned about the fees and we calculated that he would pay between \$7,500 and \$9,500 starting next year. This fee is the same amount that the City of Milwaukee with a population of 1 million would pay – but each resident in Milwaukee would pay less than 1 penny each in GLC fees, while Silver Moon Springs Trout farm would absorb the entire cost. Tim’s Senator, Jim Holperin, became involved and was able to persuade the Senate Environmental Committee to hold a hearing on the three administrative rules.

On September 29<sup>th</sup>, the Environmental Committee of the Wisconsin Senate held the hearing in Madison. Senator Holperin, Tim Winkle and I testified about the rules and how it would put Silver Moon Springs out of business. I pointed out that six of the DNR Hatcheries would pay a total of \$13,600 dollars in fees, three would pay nothing and Tim would pay the cap at \$9,500. Ron also reported on Dan *continued on page 14*

Deisenroth's study in the Western United States that every dollar of recreational fish sold represents \$36 in economic activity. So Tim could pay the \$9,500 fee and be out of business or sell \$9,500 worth of fish used in recreation and the state would gain \$340,000 in economic value. Several other fish farmers were in attendance signing cards against the rules. Representatives from other industries also spoke concerning various sections of the rules.

A week after the hearing, the Chairman of the Environmental Committee, Senator Mark Miller, met with DNR staff and worked out a compromise for small businesses. Small businesses affected by the fee structure would be capped at \$1,000 - which will include fish farms. In Wisconsin, small business is defined as doing less than \$5 million in gross sales and with fewer than 25 employees.

On Wednesday October 27 the Wisconsin DNR Board met and approved the amendment recommendation from the Senate Environmental Committee with no changes. So the fee's on water use in the Great Lakes Basin fish farms will be capped at \$1000.

The Wisconsin Aquaculture Industry is being proactive and working on a Water Conservation and Efficiency Policy/ Best Management Practices for Water Use and hopes to have this completed by next March. This is a tough policy to write, especially when the first rule of fish farming is to keep the product wet!

#### DATCP Rule Changes

DATCP is still working through the administrative rule changes in ATCP 10 that affect fish farming in Wisconsin. DATCP had hoped to go to the Board with the changes in December but that has been pushed back and is now scheduled for February. The revisions should be available for review before the WAA Conference in March. Dr Ehlenfeldt, State Veterinarian has said he will work with the industry and extend the comment period until after the conference. UW-Extension Specialists will hold a listening session on March 9, 2011 the day before the conference to facilitate input from the industry and get comments back to DATCP during the open comment period. The WAA Board at their September Board meeting expressed concerns with the "Compliance Workshop" format where agency staff, including law enforcement was present along with fish farmers did not work, as farmers were reluctant to ask questions. The "listening session" format will be used, without agency staff present, so valuable information concerning the rules can be gained and forwarded to DATCP. *Continued*

#### Federal Rules

There are several comment periods for pending rules that could affect certain sectors in aquaculture:

#### Deadline November 22

**FDA Announces Hearing regarding the labeling of food derived from AquAdvantage Salmon, a genetically engineered Atlantic salmon. produced by Aqua-Bounty Inc.** (Aqua-Bounty will have a booth and provide a speaker at the next WAA conference in March) To make *continued on page 15*

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comments: AquaBounty Federal eRulemaking Portal: <http://www.regulations.gov>. Follow instructions for submitting comments.

**Deadline Dec 16****USFWS Petition to Halt Spread of Amphibian Disease, Chytrid Fungus**

One of the concerns from the aquaculture industry over this bill is that if you are transporting fish and an amphibian happens to be in with the fish, you could be charged under the Lacey Act. This disease is wide spread worldwide - North, Central & parts of South America, Southern Africa, Western Europe and parts of Australia. [world distribution map](#). It has been indicated as the cause of significant amphibian decline. To make comments: Federal eRulemaking Portal: <http://www.regulations.gov>. Follow the instructions for submitting comments to Docket No. FWS-R9-FHC-2009-0093. Or by US mail: Public Comments Processing, Attn: Docket No. FWS-R9-FHC-2009-0093, Division of Policy and Directives Management, U.S. Fish and Wildlife Service, 4401 North Fairfax Drive, Suite 222, Arlington, VA 22203. See related article this page and page 18 about issues of concern with this petition.

**Deadline Dec 17****Injurious Wildlife; Importation Certification for Live Fish and Fish Eggs**

Please note this only pertains to imports into the U.S. Send your comments on the IC to:

Hope Grey, Information Collection Clearance Officer, Fish and Wildlife Service, MS 222-ARLSQ, 4401 North Fairfax Drive, Arlington, VA 22203 (mail); or [hope\\_grey@fws.gov](mailto:hope_grey@fws.gov)

## NAA's Letter of Comment on USFWS Petition to Halt Spread of Amphibian Disease, Chytrid Fungus

November 5, 2010

Public Comments Processing  
Attn: Docket No. FWS-R9-FHC-2009-0093  
Division of Policy and Directives Management  
U.S. Fish and Wildlife Service  
4401 North Fairfax Drive, Suite 222  
Arlington, VA 22203

Dear Sir/Madam:

The National Aquaculture Association (NAA) is a national trade association representing aquatic animal producers in the United States. Aquaculture is one of the fastest growing agricultural industries in the US with over 4,000 farms producing a variety of species including catfish, trout, striped bass, tilapia, shellfish, aquatic plants, marine, ornamental and bait fish species. These species are produced for food, bait, to replenish diminished public fishery stocks, to control invasive aquatic plants and for the restoration of damaged wetlands. The NAA offers the following comments in opposition to listing native and nonnative amphibians in trade as injurious species unless tested for the presence of *Batrachochytrium dendrobatidis* (Bd).  
*continued*

NAA appreciates and supports efforts to conserve and protect amphibian fauna in the United States and recognizes the deleterious impact by Bd upon certain amphibian species and populations (Kilpatrick et al. 2010). Whether Bd is the causative agent for amphibian declines is debatable as ably argued by Hayes et al. (2010). However, Bd has been impacting amphibians in North America since 1961 and is so widely distributed throughout the country that it is considered endemic (Ouellet et al. 2005; Padgett-Flohr and Hopkins 2009; Vredenburg et al. 2010).

Adding Bd infected amphibians to the Injurious Species List will not slow or prevent disease spread or reduce the prevalence of the disease because 1) BD is present in a broad range of amphibian hosts (>350 spp), 2) Bd is persistent within amphibians that continuously shed infective zoospores, 3) Bd is persistent in environmental reservoirs (water, moist soils or sand), 4) because Bd is likely moved by human activities other than aquaculture, and 5) because Bd is probably moved by insects, migratory waterfowl, wind, water, and moist soils or sand exposed to infected amphibians (Johnson and Speare 2001; Daszak et al. 2004; Johnson and Speare 2005; Lips et al. 2006; Morgan et al. 2007; Ribas et al. 2009; Vredenburg et al. 2010; Briggs et al. 2010). Laboratory work has found that Bd can survive for up *continued on page 15*

*Hugo W. and Ruby J. Kettula  
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to 3 months in moist river sand, 7 weeks in lake water, and 2 hours drying on duck feathers (Johnson and Speare 2001; Johnson and Speare 2005). As noted by Kilpatrick et al. (2010) "...definitive evidence linking distributional patterns of Bd or Bd-caused [amphibian] declines with trade is lacking (page 111). The NAA objects to the USFWS proposal to regulate amphibian transport to prevent the movement of Bd without publicly acknowledging that Bd is transported by people, animals, water, and moist soils or sands in or between Bd infected areas.

It is highly unlikely that publicly or privately operated, indoor or outdoor aquaculture production systems for fish, reptiles, aquatic plants, or amphibians are free of Bd zoospores and zoosporangia. The North American bullfrog (Daszak et al. 2004) and northern leopard frog (Woodhams et al. 2008) often carry Bd without signs of disease. Together these species are found in every state (McKercher and Gregoire 2010a; McKercher and Gregoire 2010b) and along with other infected amphibians are present in and near outdoor aquaculture production systems (Green and Dodd 2007). It would be impossible to eliminate amphibians or prevent their entry to the farm. The presence of amphibians in or near outdoor production systems would make it impossible to eliminate Bd zoospores or zoosporangia from those systems or to eliminate zoospores or zoosporangia in or on water, animals, plants, sediments, or containers that are exported or shipped interstate.

Requiring Bd-free certification under OIE (World Organization for Animal Health) guidelines would require a two year history of negative tests before farms could ship amphibians or product that might accidentally contain an amphibian (e.g., a tadpole in a shipment of fathead minnows). Given the ubiquitous distribution of Bd and the many potential routes of spread, it is highly unlikely that any outdoor production system and many indoor production systems in the United States, publicly or privately operated, could achieve this standard. The best-case scenario is that all farms with the potential to harbor amphibians would face a two-year period without being able to ship their product. In the likely event that a test for Bd was positive, additional delays and expense would arise. The economic impact of the USFWS listing Bd infected amphibians as an Injurious Species will be enormous for all agricultural and nonagricultural enterprises that ship live aquatic species. It is very likely that testing will reveal that production or shipping facilities contain Bd zoospores or zoosporangia and it is highly unlikely that these facilities can be decontaminated or managed in a way that prevents recontamination by a fungus that is ubiquitous to the United States.

The NAA is also concerned about the use of the Lacey Act as a mechanism to control the spread of important animal diseases. The Lacey Act provides the authority to list only mammals, wild birds, fish, mollusks, crustaceans, amphibians, and reptiles as Injurious Species. It is questionable whether the USFWS has the legal authority to list Bd or any pathogen under the Injurious Species provisions of the Lacey Act. Both the authority and the experience to regulate livestock diseases reside with the USDA-APHIS.

The Bd fungus is already ubiquitous to the United States and its distribution will not be reduced by this proposed *continued*

regulation. The regulation would have a very significant impact on commerce without providing significant protection for wild amphibian populations.

Thank you for the opportunity to comment on the proposed listing. If you have additional questions or would like copies of the cited references, please do not hesitate to contact me.

Sincerely,  
Betsy Hart  
Executive Director

### **Business Development Committee Update** By Sarah Kaatz, Aquaculture Outreach Specialist

We are working with DATCP to put together a Consumer Guide to Fish. Please refer to the article by Mike Bandli on page 1 for more details.

### **Kasco Marine receives award at the International Boat Builders Exhibition held in Louisville**

Kasco Marine recently received an award of innovative achievement at the International Boat Builders Exhibition held in Louisville. Kasco Marine submitted their **Robust-Aire Diffused Aeration System**, judged on qualities that best met innovative distinction from other products, practicality, cost effectiveness, and consumer availability. Panel judge Chris Caswell commented that "With regulators requiring stricter water quality discharge standards in marinas, this version improves water flow 10 to 40% and solves several design challenges other manufacturers face trying to improve aquatic conditions." With an ever increasing focus on Clean Marinas, this product is an easy choice for energy efficient, high quality water management equipment for Marina's and Waterfront Facilities. Opportunities exist for lake and pond management to improve overall water quality, eliminate thermal and chemical stratification and to improve overall dissolved oxygen concentration.

### **Wal-Mart Stores imports nearly 200 shipping containers, or 8.8 million pounds, every month.**

The U.S. imported \$5.2 billion worth of food from China in 2008, with aquaculture products accounting for 41 percent.

Features October 21, 2010, 5:00PM EST  
From China, The Future of Fish Meet the Chinese tilapia.  
By Bruce Einhorn



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**Mike Clark – Farm Manager for Keo Fish Farms**, the world's largest producer of hybrid Striped Bass fingerlings.



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**Steve Abernathy – Owner of Til-Tech Aquafarm**, which produces Tilapia fingerlings in an indoor recirculating facility.



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**Paul Williams – Owner of Owen and Williams Fish Farm**, producers of game fish, grass carp, and catfish.



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**Peter Fritsch – Farm Manager for Rushing Waters Trout Farm**, the largest Rainbow Trout producer in the Midwest.

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## Additional Concerns and Issues with USFWS Petition to Halt Spread of Amphibian Disease, Chytrid Fungus

Chris Weeks, Aquaculture Extension Specialist, North Central Region, has spent some time looking into this petition. Following are his observations and concerns.

- live amphibian imports to the US - 28 million between 2000-2005,
- Bd has been detected in a warm water state hatchery,
- PCR methods can test water and sediment for presence of Bd, PCR is apparently the standard test although some question its accuracy
- BD most likely originated in Africa and has spread thru shipments of live amphibians for pet or food.
- Bd is causing widespread mortality (extinctions reported) across the globe and is established in North America (reports of Bd make VHS appear tame).

As a fish farmer here are things to consider and potentially plan for if this becomes a bill:

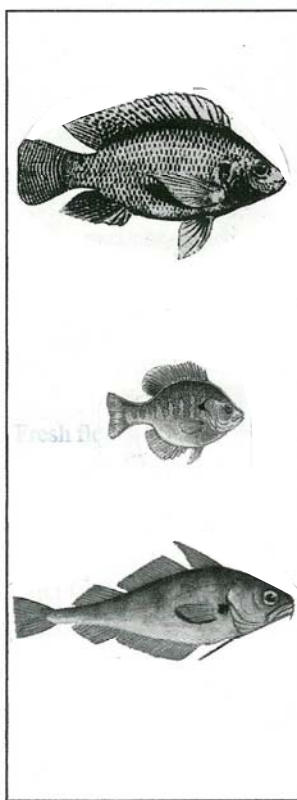
- 1- Do you raise fish in a pond or plan to?
- 2- How will the term "possession" be construed in terms of Federal enforcement of the Lacey Act if amphibians are added as an injurious species?
- 3- How many of you have observed dead frogs over the past few years?

*continued*

- 4- What happens if you are certifying tadpoles and you test positive?
- 5- How do you ensure your transports and possession remain amphibian free?
- 6- The Lacey Act does cover a situation where the regulated species is due to its susceptibility to certain diseases.  
If you are interested in this relationship check out the requirements for salmonids.
- 7- An injurious wildlife listing would prohibit the importation of live amphibians or their eggs infected with chytrid fungus into, or transportation between, States, the District of Columbia, the Commonwealth of Puerto Rico, or any territory or possession of the United States by any means, without a permit.
- 8- Permits ("written declaration" on a form provided by Director of FWS) would require health certification meeting or exceeding OIE recommendations for Bd.
- 10- Accidental possession is not "an exemption" in the Lacey Act.

- ◆ The posting is a result of a petition by an environmental organization.
- ◆ Of the 70 or so Federal Register postings to date, comments in support of the rule change number about 2:1 as those opposed. (in other words the environmental organizations, NGO's and general public are for this becoming a bill).
- ◆ Only a few postings have attempted to address the specific questions posed by the FWS in the notice.

*Continued on page 19*



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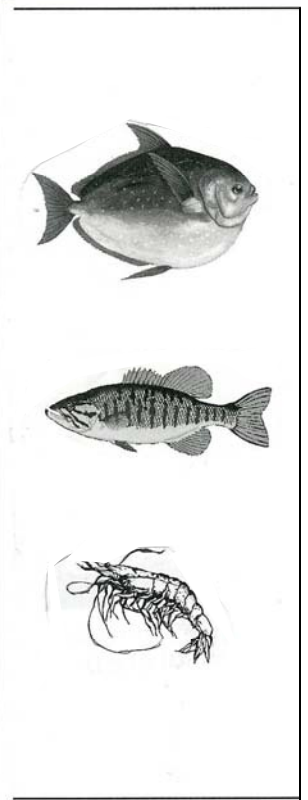
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Bottom line: this could be quite a mess with implications reaching well beyond mandatory testing. Please take some time to consider how this law might not only impact you, but the US aquaculture industry as a whole.

## RESEARCH UPDATES FROM AROUND THE COUNTRY AND WORLD

Seafood Business March 2010, Vol. 29 No. 3, page 7

### PCB Myth Needs to be Retired

by John Connelly

In 2004 an article published in *Science* magazine reported average PCB concentrations in farmed salmon were at around 37 parts per billion (ppb), compared to 5 ppb in wild salmon. Both tested well below the safe consumption level of 2,000 ppb set by the U.S. Food and Drug Administration (FDA).

Subsequently, a U.S. Fish and Wildlife Service study found PCB levels almost exactly the opposite in farmed and wild - both still well below any level of concern.

Independent, peer-reviewed research from Harvard University, published in the *Journal of the American Medical Association*, reports that common foods like butter and even chicken contain far more PCB's than farmed salmon. The complete article can be found at <http://www.seafoodbusiness.com/articledetail.aspx?id=4294994377>

*continued*

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## Research, continued

John Connelly is president of the National Fisheries Institute in MacLean, VA

Fish Farming News Issue 2, 2010, page 2

### Barley protein a possible candidate for fishmeal replacement?

Scientists from USDA/ARS and Montana Microbial Products LLC of Butte, MT say they've developed a barley protein concentrate that might be fed to trout and other commercially produced fish instead of fishmeal in commercial aquaculture diets. Fish physiologist Rick Barrows, USDA, said there's currently no commercial production of barley protein concentrate but it might eventually replace fishmeal in fish feed if other essential nutrients are provided as supplements.

From Indiana Fish Farmers Newsletter

### Alternative Fish Feeds Use Less Fishmeal and Fish Oils

Agricultural Research

As consumers eat more fish as part of a healthy diet, U.S. Department of Agriculture (USDA) scientists are helping producers meet this demand by developing new feeds that support sustainable aquaculture production.

Click the link below for the complete story.

<http://www.ars.usda.gov/is/pr/2010/101013.htm>

### Alternatives to Fishmeal in Aquaculture Diets

—Ron Hardy, Dir, Aqua Research Institute, the Hagerman Fish Culture Experiment Station, Prof, Dept of Animal and Vet Science, Univ of Idaho. Full text at: WRAC *Waterlines* Winter 2010, pages 12-13 (issue not online yet, <http://www.fish.washington.edu/wrac/publications/waterlines.html>)

Fish-feed formulators have been able to modify feed composition and reduce fishmeal levels. But the amount of fishmeal used each year has actually increased because of the rapid growth of aquaculture. This increase in fish meal has been offset by the reduction of fish meal use in other areas - poultry and swine. As a result of this reduction there has been little evidence that there has been higher landings of fish species used in fishmeal production (except for some areas of SE Asia and China where forage fish are fed directly to farmed fish).

WRAC-funded research has led to the development of low or zero fishmeal feeds for rainbow trout that support growth nearly as well as conventional fishmeal-based feeds and in Asia, production has shifted quickly over the past few years from the carnivorous tiger shrimp, *Penaeus monodon*, to the omnivorous whitelegged shrimp, *Litopenaeus vannamei*.

Taken from WVU-Ext newsletter, Fish Tales, summer issue

### Russia breeds heat-loving trout

by Aquafeed Staff

[http://www.aquafeed.com/read-article.php?id=3544&sectionid=1&utm\\_source=Aquafeed+English+Newsletter&utm\\_campaign=dd73e1bfe7-Aquafeed\\_Newsletter\\_09-30-10&utm\\_medium=email](http://www.aquafeed.com/read-article.php?id=3544&sectionid=1&utm_source=Aquafeed+English+Newsletter&utm_campaign=dd73e1bfe7-Aquafeed_Newsletter_09-30-10&utm_medium=email)

09/30/2010 Trout capable of reproducing in warm water have been bred in Russia, The Voice of Russia reports. The fish are the fruit of many years of work done by the experts at the "Adler" fish farm in the city of Sochi. Now experts are preparing the papers for registering copyright. Source: [The Voice of Russia](#) 2010

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Fish Farming New Issue 2, 2010, page 8

### Fish oil replacement: Palm oil may not be the answer - Bill Mancini

Bill explores the pros and cons of using palm oil as a fish oil replacement in fish feed. Palm oil is relatively *continued on page 20*

## RESEARCH, continued from page 19

abundant and is more chemically stable over time. Malaysian research suggests it appears to work well for tilapia. One of the downsides is that palm oil is a poor source of omega-3 fatty acids and is an abundant source of artery-clogging saturated fatty acids. Rest of story <http://www.glgroup.com/News/Fish-oil-replacement--palm-oil-may-not-be-the-answer-48739.html>

### DDGS Viable Alternative for Fishmeal Rations in Aquaculture

All about feed

In Japan, a recent distillers' dried grains with solubles (DDGS) fish feeding trial proved that DDGS offer a viable alternative to high priced fishmeal rations in trout diets. The fish produced using US DDGS were found to have equal or greater quality meat while produced with lower input costs. For the complete story.

<http://www.allaboutfeed.net/news/ddgs-viable-alternative-for-fishmeal-rations-in-aquaculture-4813.html>

### Fish oil may lower gum disease

A new study has found that dietary intake of polyunsaturated fatty acids (PUFAs) like fish oil, known to have anti-inflammatory properties, shows promise for the effective treatment and prevention of periodontitis, a common inflammatory disease in which gum tissue separates from teeth. Although traditional treatments concentrate on the bacterial infection, more recent strategies target the inflammatory response.

The study is published in the *Journal of the American Dietetic Association*.  
*continued*

## RESEARCH, continued

[Fish oil may lower gum disease - The Times of India <http://timesofindia.indiatimes.com/life-style/health-fitness/diet/Fish-oil-may-lower-gum-disease/articleshow/6815802.cms#ixzz13qJ7G3Nl>](http://timesofindia.indiatimes.com/life-style/health-fitness/diet/Fish-oil-may-lower-gum-disease/articleshow/6815802.cms#ixzz13qJ7G3Nl)

### Recent research at the Leetown, W.Va., National Center for Cool and Cold Water Aquaculture has improved on ways to produce triploid trout.

Researchers Gregory Weber and Mark Hostuttler have expanded the application on rainbow trout, in preliminary studies, to include brook and brown trout as well as Atlantic salmon. By crossing a tetraploid (four sets of chromosomes) fish with a diploid (two sets), the result is a triploid population that will not be able to reproduce. That difference channels the energy from reproduction into more muscle growth. These two scientists have also devised a method to validate chromosome status on 20 fish per test, instead of just one at a time. These advances in efficiency are helping the industry move forward. The Agricultural Research Service is focused on using genetics to more efficiently produce fish that grow faster on less feed. Producing sterile fish will eliminate the possibility of mixing with the genetic strains found in nature. For more information, visit: <http://www.ars.usda.gov/>

### Omega-3s in fish may mitigate effects of age-related macular degeneration

A researcher at Louisiana State University, *continued on page 21*

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## RESEARCH, continued

Baton Rouge, is measuring macular pigment optical density (MPOD) in pregnant women and collecting dietary information. Data is showing that women taking DHA supplements have a higher MPOD. Since maternal stores of DHA are depleted during pregnancy, this may be causing women to be more susceptible to macular degeneration later on.

Seafood Business, August 2010, Vol 29, No 8, page 34, See Food by Lauren Kramer.

## FINANCES & FUNDING OPPORTUNITIES

Seafood Business March 2010, Vol. 29, No. 3, page 86

### Let SBA help - The 504 loan program offers funds for small companies' expansion

By Joanne Friedrich

For one-third of the cost of his lease, John Murray is now the owner of a 24,175-square-foot waterfront building that houses M&B Sea Products. Murray was able to secure a 20-year, fixed rate below 4 percent through a Small Business Administration 504 loan. The deal puts cash back into his business and even helps augment his workforce of 27.

That's the idea behind the 504 loan program, explains Merrill Ferber, director of communications and out-reach for The National Association of Development Companies (NADCO), the trade organization for Certified Development Companies (CDCs) that provides financing to small businesses through the Development Company Economic Development Loan Program, or 504 program. There are 260 CDCs that cover all 50 states and Puerto Rico. Small businesses looking to buy, construct or expand a building or buy major equipment, including fishing vessels or other commercial boats, are candidates for the 504 loan. <http://www.seafoodbusiness.com/article/detail.aspx?id=4294994359>

### DATCP ACCEPTS PETITIONS FOR AG ENTERPRISE AREAS

The Wisconsin Department of Agriculture, Trade and Consumer Protection is accepting petitions requesting designation of Agricultural Enterprise Areas (AEA). This designation allows eligible farmers to enter into a farmland preservation agreement with the state to claim a farmland preservation tax credit. These areas can also foster collaboration between adjacent landowners and create a sense of certainty about the future of agriculture.

Petitions must be completed by landowners and local governments and petition materials are available at: <http://www.datcp.state.wi.us/workinglands/aea.jsp>. For the 2011 cycle, the department's goal is to designate 250,000 acres. Priority will be given to prospective AEAs of between 1,000 to 30,000 acres. Petitions must be postmarked by February 18, 2011. *Continued*

## FINANCES & FUNDING, continued

### NIFA Now Accepting Proposals to the Beginning Farmers and Ranchers Development Program

WASHINGTON, Oct. 28, 2010 – USDA's National Institute of Food and Agriculture (NIFA) is now accepting grant proposals to the Beginning Farmers and Ranchers Development Program (BFRDP) from organizations for projects to provide education, training, mentoring and internships to beginning farmers and ranchers that will help them run successful and sustainable farms.

Applications are due to NIFA by Dec. 22, 2010 and must be submitted through Grants.gov. The request for applications can be found on the NIFA website at <http://www.nifa.usda.gov/fo/beginningfarmerandrancher.cfm>.

A beginning farm is considered to be one that is operated by one or more operators who have 10 years or less of experience operating a farm or ranch. NIFA will make \$19 million available this fiscal year and next (2011 & 2012) to BFRDP. BFRDP provided \$18 million in funding in fiscal year 2009 and \$19 million in fiscal year. More information is at: [www.nifa.usda.gov](http://www.nifa.usda.gov).

### August Newswire

#### AFBF SUPPORTS MICROBUSINESS CREDIT ACT

American Farm Bureau is supporting the Rural Microbusiness Investment Credit Act of 2010, H.R. 5990, introduced by Congressman Ron Kind (D-Wisconsin) and Wally Herger (R-California). The legislation is designed to generate investment in start-up and expanding rural microbusinesses as well as in beginning farm and ranch operations by providing a 35 percent tax credit. Owner operated businesses with up to 5 employees and \$1 million receipts located in distressed rural areas would be eligible, along with first-time farmers.

From USDA NIFA

#### USDA Announces Loan Program for Natural Resource Conservation

WASHINGTON, Sept. 2, 2010 -- Agriculture Secretary Tom Vilsack today announced the launch of a Conservation Loan (CL) program that will provide farm owners and farm- *continued on page 22*



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## FINANCES & FUNDING, continued

related business operators access to credit to implement conservation techniques that will conserve natural resources. For more information on the Conservation Loan program, contact a local FSA office or visit the FSA website at [www.fsa.usda.gov](http://www.fsa.usda.gov). For more information cont pg 19 about this announcement please see the notice which will appear in the September 3 edition of the Federal Register: <http://www.fsa.usda.gov/FSA/federalNotices?area=home&subject=lare&topic=frd-ii>

### All in the Family

by Joanne Friedrich

Passing a family run business on to the 2nd, 3rd or 4th generation requires planning and the help and advice from professional sources. Business must take into account business and personal planning, management succession, ownership transition and estate planning. More on this story at <http://www.seafoodbusiness.com/articledetail.aspx?id=4294994411>

## Changing of the Guard at the Trout Palace

Friends, colleagues, associates...

It is with oscillating waves of excitement and terror that Cathy and I announce the sale of the Trout Palace and our relocation to Central Pennsylvania.

On October 30th we loaded up the truck, put Granny in her rocker and drove away from what had been our dream, passion, frustration and homestead of 22 years.

On November 5th Miranda Pollock and her family took over as the "Reigning Monarchs and Heirs Apparent".

We will miss Wisconsin, raising trout and all of you whom we consider much more as family than competition but we are significantly comforted to know that Miranda and her fine family are as crazy as we were in 1988 to become Trout Farmers. The transference of knowledge was and will continue to be an integral part of the sale. I have promised, and so trust that the hospitality and mentoring ability of the Wisconsin Aquaculture Association will make their acclimation easy and their understanding of the nuances of aquaculture in this new century much better than ours ever was.

Our new situation is nearly as foolhardy and every bit as ambitious as it was to move from raising freshwater prawn in Hawaii to renovating an abandoned Trout Farm in Wisconsin. We are living as Tenants in Common on an 80 acre organic farm in central Pennsylvania about 12 miles east of State Collage/Penn State University. The farm is best described as an oasis of overgrown pastures and bad fences. It has a fine greenhouse and 1-2 acre market garden. We are remodeling a beautiful timber-frame home to accommodate two families and will then begin reconstructing the pastures and fences with the goal of renting pasture for organic livestock. I will continue to manage International Organic Standards issues for Oregon Tilth Certified Organic. Cathy is excited to be realizing her goal of being full time Mother/ Gardener/Poultry grower and Community volunteer. Our oldest daughter *continued*

Jessie is a Freshman majoring in Globalization studies, at Gettysburg College where she is planning to change the world. Our younger daughter Abby is an 8th grader in the Penns Valley High School. She has a calculated plan to become queen trumpet player in the music department, so far so good.

The best thing, the *best* thing about Trout Farming was the camaraderie, the solidarity, the infrastructure, the fantastic cumulative knowledge, the memories, great times, fine people, laughs, rants, meals, music, smiles and memories provided by the volunteers who created, cultivated and continue the work of the AA. If you all don't realize it, do so now and do what you can to not only preserve it but make it prosper. You are extremely fortunate to have such a great organization. We will maintain our Creel subscription in order to keep track of you from afar. We will keep the [tpal-ace@gmail.com](mailto:tpal-ace@gmail.com) email address. And we will always have a room, a meal, a song and an ear for our old friends.

Best wishes and fishes.

Jim and Cathy Pierce

Reigning Monarchs; Retired

.....

Greetings to all!

Since Jim and Cathy Pierce were so kind to introduce us to all, we also thought we would like to say hello. As the new owners of the Trout Palace we are thrilled, exhilarated and of course, slightly terrified and having our sanity checked. The moment we walked onto this property we just knew, this was the one. One look at the trout barn and a chat with Jim and we were hooked, if you'll pardon the pun. Mind you, we understand we have bitten off quite a chunk with this new adventure, but we are absolutely thrilled to do so. Jim & Cathy have been absolutely wonderful and generous with their knowledge and instructions for care. We will continue to have a relationship with them as we encounter new areas of trout rearing that we have yet to see. We are grateful and inspired by their legacy here.

As we go along, we hope to meet many of you along the way. We too, will need your support and expertise as we find our way through our first season. Rest assured, we will continue the path that the Pierce's forged for these past many years. We look forward to working with everyone and creating new friendships along the way. We are blessed and thrilled, and slightly terrified, but absolutely ready. Feel free to contact us and introduce yourselves as we go along.

Thank you Jim & Cathy and we wish you absolute success and blessings in your new adventure. We hope to do your legacy here very proud.

With gratitude,

Miranda Pollock & Christine Raymond  
Trout Palace  
Reigning Monarchs and Heirs Apparent

# A G E N D A S / M I N U T E S

**Wisconsin Aquaculture Association  
Quarterly Board Meeting  
Dec 10, 2010, 8:00 am  
Country Springs Hotel, Pewaukee, WI**

## **AGENDA**

**Board Chairman vacancy**  
**Minutes from 9-17-2010 and approval**  
**Treasurer Report and approval**  
**Secretary Report**  
**Committee Reports -**  
    **Regulatory**  
    **Business Development**  
    **Research & Education**  
**Upcoming Workshops**  
**2011 Conference**  
**Other Old Business**  
**New Business**  
**Adjourn**

### **WAA Board Meeting September 17, 2010 at Bullfrog Fish Farm, Menomonie**

The meeting was called to order at 10:06am by Jeff Taylor

**Attending:** Jeff Taylor, President; Dave Gollon, Fred (Fritz) Gollon, Dan Gruendemann, Jim Pierce, Board Directors

#### **Others in attendance:**

Pat Heckert, Herby Radmann, David Sundal, Ken Kangas (sp?), David Gruendemann, Patty Taylor, Ron Johnson, Sarah Kaatz

**Minutes:** Review of the minutes. Motion made to approve by Dan Gruendemann, seconded by Fritz Gollon.

**Treasurer's report;** Motion for approval by Dave Gollon, seconded by Dan Gruendemann

#### **Secretary report:**

Comments:

\*Emailing The Creel – have an opt in/out check off box on membership renewal and new members. Or have a check box if they want a paper copy. Need to have 200 sent out to keep the current bulk rate. Still want to send a paper copy to legislature, schools, tribes once a year.

\*Increasing Active level membership – Active level members can add events to WAA's website.

\*Redoing website – Jeff likes the website the way it is. Cindy (relayed from Ron) would like to put up a site that is easier for farmers to use and also have information for the public, will look into what involved with that.

\*Logo from graphics class at UWSP: yes, approach the class to see if they have time this year in their schedule to do a logo for WAA.

*Continued*

#### **Committee Reports:**

##### **Regulatory – Ron Johnson:**

\*Water Use NR 850: Senator Holprin (Tim Winkle's senator) talked to Ron about the fee structure associated with this bill and has requested a hearing with Senator Miller. The hearing will be September 29<sup>th</sup> at 10am at the State Capitol. Tim and Ron will both testify to the Senate committee. Anyone who is interested in this issue is encouraged to attend. Cindy has sent the fee structure to the Board; currently, \$9500 is the cap for all users. However, City of Milwaukee with 1 million people, will hardly feel the effect of this fee, whereas it will be 55-58% of Tim's gross income. This has huge implications for small businesses. Need to support Tim because this rule could go state-wide.

The testimony at the hearing could cause the fee to be waved (or exempted for small business) but unless terminology is changed, the fee can and will be added back in later (years from now possibly). The term "withdrawal" needs to be changed or redefined so that the fees can not be reinstated.

\*Update from the NASAC meeting: There was a paper presented on a study that was done by WRAC on "The Total Economic Contribution of the Private, Recreation-based Aquaculture Industry in the Western United States". It found that for every \$1 sold in fish, the multiplier is \$36, making recreational stocking worth \$1 million and creating nearly 500 jobs in the western U.S.

It was suggested that the WAA Board recommend to NCRAC that this same type of study be done for this region. If it is done, there will need to have a better definition of what is really a "farmed" product – need to check statistics carefully.

##### **\*Regulation discussion:**

- Reminder to double check fish farm registration numbers
- DATCP is still redoing the rules, so there is still time to write in suggestions and rule changes that you would like to see changed.
- Compliance meeting – is there a need for one? Is a meeting facilitated by UW-EX for fish farmers needed and then that message is brought to the agencies? What can UW-EX do better to help this industry?
- What has caused the heightened level of frustration within the industry in regards to the current rules? Reinterpretation? Enforcement? Redefinition of rules? The rules themselves haven't changed, but perhaps it's just the interpretations.
- At the NASAC/USTGA meetings, Ron presented information on the Lacey Act at both board meetings.

\*AquaBounty was at the NASAC meeting – does the WAA Board want them to have a booth at the conference and give a presentation?

##### **Business Development – Sarah Kaatz:**

\*Ron and Sarah are meeting with Mike Bandli next week to go over the media kit, update and add more details to it.

##### **Research/Education – Jim Held:**

\*Jim wasn't present for update.

*Continued on page 24*

\*Getting more money for NADF. Need to look at where the industry gets the most bang for the buck. We get more practical information from NADF that the industry can actually use.

**Previous and Upcoming workshops/events:**

- \*Beginning Aquaculture Workshop on September 26<sup>th</sup> at Juneau
- \*Tribal workshop in August – 47 people and 13 tribes represented
- \*VHS/HACCP workshops in Ohio and South Dakota
- \*WAAE in Madison for the high school teachers
- \*Conceptual Framework meeting – high school curriculum
- \*Farm Technology Days

**Upcoming Events:**

- \*Compliance workshop?
- \*Intro to Aquaculture at Wild Rose Hatchery?

**2011 Conference:**

\*Have the winter WAA board meeting at County Springs Hotel – either December 3<sup>rd</sup> or 10<sup>th</sup> (Fridays)

**Other Business:**

\*Replace Peter (Peter Fritz resigned as Board Chairman) today or wait for elections? Wait for elections.

**New Business:**

- \*Feed stimulus will be available this year, like last year. Should have \$20 million available; This is for farmers raising food fish, who have seen a 25% increase in feed costs this year.
- \*MOU between NADF/WAA was reviewed and signed

**\*Nominating Committee**

Jim Pierce was on the committee last year – it is just a matter of asking people to be more active – need to be proactive. Will need to get ideas to Jeff Taylor.

\*Has WAA ever had a Board Member on the USTGA Board?  
Jeff will look into this.

Dan Gruendemann made motion to adjourn. Jim Pierce, second.

Respectfully submitted by Sarah Kaatz

From Seafood Business

**61** Percentage of mothers surveyed by the March of Dimes who said “sushi and fish” was their number 1 food-related concern.

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Want to place an ad in the Creel? (Wanted, For Sale, Fish, Equipment) \$10/issue, up to 100 letters/spaces.

**Shrimp farming gains popularity in Indiana**

By Natalia Real, [editorial@fis.com](mailto:editorial@fis.com) [www.fis.com](http://www.fis.com)

Friday, Oct. 22, 2010, 03:10 (GMT + 9)

Indiana's farmed shrimp industry could help restore the supply of shrimp reduced earlier this year by the Gulf Coast's BP oil disaster. Aquaculture Marketing Director for Purdue University's Department of Agricultural Economics Kwamena Quagraine has been approached by individuals seeking to get involved in shrimp production following the spill. As one of the most consumed seafoods in the US and because much of the country's supply originates from the Gulf Coast, the focus has fallen on shrimp. The state's aquaculture industry saw the price of shrimp shift as a result of the spill. Freshwater shrimp farmers received a better price than last year, as they enjoyed a good demand resulting from *cont on pg 20* a dearth of the product in the south, Quagraine said. According to Robert Rode, aquaculture research lab manager for Purdue, the oil spill is offering producers a chance to market their products while informing consumers wary of oil-contaminated seafood how theirs is raised. Quagraine noted that whether now constitutes an auspicious time to boost Indiana's aquaculture operation is contingent on the speed with which the Gulf Coast shrimp industry recuperates.

**DNR has Invasive Plant Guide and poster available on website**

<http://dnr.wi.gov/invasives/pdfs/WI%20inv%20plant%20field%20guide%20web%20version.pdf>

From AgNewsWire

**WHY ARE CONSUMERS ASKING FOR ASSURANCES ABOUT ANIMAL WELFARE?**

John Patterson, a Michigan State University Extension Beef Specialist notes that focus group research reveals that consumers know very little about the agricultural supply chain, and in particular they are deliberately ignorant of anything that happens between slaughter and consumption. The only area that consumers do know - and want to know about - is the rearing and living stage prior to slaughter. Whom do consumers trust for humane treatment of farm animals? Janice Swanson from Michigan State University in a presentation at the 2010 Montana Nutrition Conference said that consumers trust people who resemble themselves most, followed by advocacy groups, farmers/producers, federal regulatory agencies, grocery stores, restaurants and lastly food companies and processors. Consumers assign to farmers and advocacy groups more responsibility for the humane treatment of farm animals than to any other group. For more, see the [Prairie Star](http://prairiestar.com).

**BAD NEWS: CONSUMERS NAME HSUS MOST CREDIBLE FARM-ANIMAL CARE INFORMATION SOURCE**

Consumers rate the Humane Society of the United States as the most credible source for information about farm animal care. That finding was announced recently at the Food System Summit held by the Center for Food Integrity. The CFI's CEO Charlie Arnot unveiled the results of an annual survey on consumer trust in the food system. In addition to the 15.88 percent of respondents who think HSUS is the most credible source of information about farm-animal care, 12.32 percent think farm-animal veterinarians are credible sources, followed by 12.02 percent for USDA representatives and 11.47 percent for People for the Ethical Treatment of Animals. Farmers who operate large livestock farms were ranked last, with 5.50 percent. "The closer you are to a profit motivation, the greater your credibility deficit," Arnot said. To determine the rankings, consumers were asked not to rank the sources but instead to specify the most credible and the least credible from a given set. A pool of 2002 respondents took the online surveys in August 2010.



## Wisconsin Marketing Opportunities

The latest issue of "fresh - A Wisconsin Perspective", courtesy of Wisconsin Agricultural Tourism Association, has several marketing news items.

**Tourist Oriented Directional Sign (TODS)** Program provides signs for qualifying tourist-related businesses. These are the ones that just have the business name with # miles to the business.

- 1- Your major source of income must come from visitors not from the immediate area
- 2- You must be located within 5 miles of a U.S. or state highway, but do not have direct access to it.
- 3- If you are a food business, you must be open 5 days/week, minimum hours 10a to 7p, 50% of gross receipts from food and non-alcoholic beverages
- 4- If you are a tourist attraction, you must be open at least 8 hours/day, 5 days/week, provide restrooms and drinking water and must be of significant interest to the traveling public.

Cost - about \$550 for 10 years

There is also a **Specific Information Sign (SIS)** Program with similar qualifications. These signs are on a rental program. These are the ones at highway & freeway exits with the business's logo. For more information call John Noll, Program Coordinator, WIDOT, (608) 266-0318.

**Farm Fresh Atlas's** deadlines coming up - varies with each atlas.

Eastern Wisconsin - Kathleen Depies, 920-849-9459  
Western Wisconsin - Andrew Dane, 715-726-7950  
SE Wisconsin - Rosa Skora, 262-857-1948

*continued*

## 2010 CALENDAR OF EVENTS

### MEETINGS

Location:

Country Springs Hotel & Waterpark  
Golf Road  
Pewaukee, WI

### **December Board Meeting**

Dec 10, 8:00 am

### **WAIAC Meeting**

Dec 10, 10:00 am

## 2011 CALENDAR OF EVENTS

### 2011 CONFERENCE & Pre-Conference Workshop

Location: County Springs Hotel, Pewaukee, WI  
March 10, DATCP Listening Session 1-3p  
March 11-12, Conference

### MEETINGS

Location: County Springs Hotel, Pewaukee, WI  
March 10, WAIAC, 3-5p  
March 11, Annual Members meeting  
March 12, Board meeting

### 2011 AQUACULTURE DAY/FISH FARM DAY

July 16, Statewide

## Marketing Opportunities, continued

Central Wisc. - Jasia Steinmetz, [jasia.steinmetz@uwsp.edu](mailto:jasia.steinmetz@uwsp.edu)  
Southern Wisconsin - Miriam Grunes, 608-310-7836

### **Travel Wisconsin is Going Mobile**

If you have fee fishing at your farm and are not on the TravelWisconsin website (under fishing), contact your tourism entity (chamber of commerce, visitor and convention bureau or marketing association) to get listed. If your local entity doesn't offer this, call Linda Anderson at Dept of Tourism to see who you should contact, 608-261-8212. WDT is now offering a travel app that will use info listed on their website.

## SETTLEMENTS REACHED IN SEAFOOD FRAUD INVESTIGATION

**Wisconsin Receives \$100,000 in Civil Forfeitures  
October 12, 2010 Contact: Brock Bergey, 608-224-5007**

MADISON – Ten companies accused of overcharging Wisconsin consumers for frozen seafood have agreed to pay fines. These civil forfeitures total \$100,853.50 and bring an end to a nine month investigation by Weights and Measures inspectors in the Department of Agriculture, Trade and Consumer Protection. The civil forfeiture settlements stem from 157 violations found at 23 grocery stores located in Fond du Lac, Outagamie, Shawano, Racine, Rock and Walworth counties. None of the businesses admitted to having committed violations.

"We are enforcing the laws that say consumers should pay only for seafood – not ice," said Janet Jenkins, DATCP's Administrator of Trade and Consumer Protection "Our investigation found overcharges as high as \$6.00 per package."

This investigation went beyond state lines. Wisconsin organized a multi-state effort that included Alaska, California, Colorado, Connecticut, Florida, Illinois, Iowa, Kansas, Maine, Michigan, Minnesota, Missouri, North Carolina, New York, Ohio and Washington in January and February of this year. Nationwide, inspectors removed more than 21,000 packages of seafood from grocery stores.

The Wisconsin Department of Agriculture, Trade and Consumer Protection is committed to a fair marketplace. For more information or to file a consumer complaint, contact Weights and Measures at [hotline@datcp.state.wi.us](mailto:hotline@datcp.state.wi.us) or call toll-free at 1-800-422-7128.

## WEIGHTS & MEASURES: THE NUMBERS

**17** Weights and measures departments that participated in a February investigation on short-weighted seafood sold at retail

**21,000** Total short-weighted seafood products removed from store shelves as a result of the investigation

**23** Dollars per pound that some customers were paying for ice when purchasing short-weighted seafood products

From Seafood Business, May 2010 Vol. 29, No. 5 page 8

## DR. WAYNE SCHAEFER BLUE WALLEYE STUDY UPDATE

January 31, 2010

*This also was on the Aqua Ohio listserv in response to a question of why there are occasionally "blue" walleye - Cindy*

1. Two factors contribute to the blue color in walleye:
  - a. lack of yellow pigment in the skin of the fish.
  - b. presence of blue pigment in the skin mucous of the fish.
2. We have identified the blue pigment in the mucous as a new protein never before described in the literature. We have named the pigment "Sandercyanin". Sander is the genus name for walleye and cyanin means blue in Greek.
3. Sandercyanin consists of a large lipocalin protein which carries "biliverdin". Biliverdin is a normal excretory product secreted in urine of all vertebrate animals. It forms from the breakdown of "heme", a blood protein.
4. Sandercyanin occurs in the mucous of walleye in many lake and river systems in Ontario, Quebec and Manitoba. It is equally present in both blue and yellow walleye in any given lake or river system.
5. Sandercyanin appears to be moving south across the Canadian-U.S. boarder into upper Minnesota and upper Michigan.
6. Sandercyanin does not harm the health or taste of the fish.

*Continued*

Walleye, continued

7. Sandercyanin is produced seasonally, with more in summer than winter. It is produced only on the dorsal (upper) part of the fish, above the lateral line. Specifically, Sandercyanin is produced on a line just posterior (toward tail) to each spine in the dorsal fins.
8. One factor that causes the breakdown of heme to biliverdin is exposure to ultraviolet (UV) radiation from the sun. The earth is normally protected from UV radiation by ozone in the upper atmosphere. In recent years ozone "holes" have been noted over both the north and south poles as a result of CFCs (chlorofluorocarbons) entering the atmosphere. In some species of animals, biliverdin is known to act as a photo-protectant.
9. It is possible that walleye in Canada use, as a sun screen, the very chemical which forms in their blood from exposure to too much sun. This conclusion is still only speculation but it is our best hypothesis.

## THE COOK'S CORNER - Dani Klontz

### SMOKED TROUT PECAN CROSTINI

#### Ingredients

- 1 (8-ounce) package smoked trout fillets, skinned and boned (about 2 fillets)
- 1 (8-ounce) package cream cheese, softened
- 1/2 cup chopped pecans, toasted
- 1/2 cup sour cream
- 1 shallot, quartered
- 2 teaspoons prepared horseradish
- 2 tablespoons fresh lemon juice
- 1/2 teaspoon freshly ground black pepper
- 1/4 cup olive oil
- 2 teaspoons minced garlic
- 1 French baguette, sliced into 1/3" slices

#### Preparation

Combine first 8 ingredients in a food processor; process until smooth. Chill 1 hour or up to 1 week. Serve at room temperature.

Combine olive oil and garlic; brush both sides of bread slices with garlic oil; arrange slices on baking sheets.

Bake at 400° for 8 minutes or until crisp and golden. Cool completely. Serve with spread.

## WAA STORE

### Books

- NCRAC -Sunfish Culture Guide - \$30  
(Only 3 loose leaf copies left)
- Managing Wisconsin Fish Ponds - \$15

### NEW ADDITION

- Best Management Practices for Aquaculture - \$40 for WAA Members, \$45 non WAA Members

### CD/DVD's

- NCRAC -Walleye Culture Manual, cd - \$20
- NCRAC - Yellow Perch Cultural Manual, cd - \$20
- UW -Spawning of Yellow Perch, dvd - \$10

### Misc

- "Fish of Wisconsin" poster - \$5 ea or \$3 ea for 10 or more
- Baseball Cap - faded denim w/ WAA logo - \$12

All prices include shipping  
All items available on our website:  
[www.wisconsinaquaculture.com](http://www.wisconsinaquaculture.com)

or

Call, write, or email

P.O. Box 1408

Bayfield, WI 54814

715-373-2990

[cindy@wisconsinaquaculture.com](mailto:cindy@wisconsinaquaculture.com)

# WISCONSIN AQUACULTURE ASSOCIATION, INC.

## MEMBERSHIP APPLICATION/RENEWAL FORM

### MEMBERSHIP LEVELS

**Associate - \$25** - Receive 4 issues of The Creel, name & address listed on members search, inclusion on member only list serv for vital information

**Active - \$50** - Benefits of Associate level, plus: active members can vote and serve on board, as officers or on WAIAC, listed on members search by business, processing, sales and fish species

**Group - \$75** - 1 active membership and up to 4 associate members - farm/vendor employees, , agencies, university, etc.

Check here if your  name,  address,  phone,  fax or  email has changed

Name \_\_\_\_\_ Title/Position \_\_\_\_\_

Business Name \_\_\_\_\_

Address- Mailing \_\_\_\_\_ Physical \_\_\_\_\_

City, State Zip Code \_\_\_\_\_

Phone: Home (will not be on website) \_\_\_\_\_ Business (on website) \_\_\_\_\_

Website \_\_\_\_\_ Email \_\_\_\_\_

Put me on WAA list serv \_\_\_\_ Yes (need email address) \_\_\_\_ No Put me on WAA printed directory \_\_\_\_ Yes \_\_\_\_ No

**Business (check one):**  Wholesale  Retail  Recreational/Private  Starting  Tribal  School  
 Government  Aquaculture Supplies/Products/Consulting/Insurance  Veterinary  Research/Laboratory  
 Organization  Other \_\_\_\_\_

**Type of Membership:**  Renewal  New

Active (\$50.00/year - voting) \_\_\_\_ Associate (\$25.00/year - non-voting) \_\_\_\_ Group (\$75.00/year) \_\_\_\_

**For Group level includes 1 active member, up to 4 associates - list members name (designate active member)**

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### ADVERTISING OPTIONS AND RATES

#### NEW - More options to advertise on WAA's web site

WAA now has 2 hot link categories to your website to choose from:

**Industry Links**, with subcategories of **Aquaculture Product, Live Fish** and **Misc.**

**Consumer Links** with subcategories of **Fee Fishing** and **Fresh/Smoked Fish, etc.**

**Cost is** \$20 a year for members, \$30 for non members.

**Don't Have a Web Site?** WAA has a special price of \$100 for a 1 page web site—includes 1-2 pictures, text description of your farm and contact info, your own stand alone domain name, your logo can be added. After that maintenance with changes is \$50/year. To see an existing page go to <http://donaldbloecherjr.com/>

**Banner Ads:** \$100/year

**Advertise in "The Creel"** - prices are per issue  Full Page \$100;  1/2 Page \$60;  1/4 Page \$40

**Creel classifieds:** \$10/issue, up to 100 spaces/letters, will be added to web classifieds

**Web classifieds** are free

Send this form & a check or money order to: **WAA,**

**P.O. Box 1408, Bayfield, WI 54814**

# Wisconsin Aquaculture Association, Inc.

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## WISCONSIN AQUACULTURE ASSOCIATION

