

The CREEL

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December 2013

2014 Wisconsin Aquaculture Conference to be Held in Mishicot

The 2014 Wisconsin Aquaculture Conference is just 3 months away!

2014 Conference

We have some great talks lined up: Aqua Tourism, Northside Enterprises: Walleye Grant Update, Should We Pursue a Federal Checkoff for Aquaculture?, Algae Research on Nutrient Reduction in Aquaculture Wastewater, Michigan Aquaculture Initiative, Mobile Fish Processing Units, Coolwater and Warmwater Produce Options and Fish Selection in Aquaponics - more will be added.

There will also be our well received talks: Alice in Dairyland, Retail Product Showcase, "Focus on:" series highlighting DL Luety & Sons Farms, "Do It Yourself:" series this year on Practical Farm and last, but not least - "Taste of Wisconsin Aquaculture Cooking Demo" featuring the culinary skills of Dani Klontz. This is a showcase of great Wisconsin aquacul-

Walleye Initiative Grants Update

On Friday November 8, 2013 the WDNR received final Governor's office approval for the Walleye Initiative grant emergency rules that were passed by the Natural Resources Board (NRB) at its October meeting. The NRB and Governor did not make any changes to the rules as proposed.

The rules will go into effect when published the week of November 11-15th and the WDNR hopes to have grant application materials available sometime in the next week or two.

Summary of Walleye Initiative

2013 WI act 20 directed the department to establish a grant program to award grants on a competitive basis to cities, villages, towns and counties; to federally recognized Indian tribes or bands located in this state; and to fish farms for the purpose of increasing their capacity to raise walleye for stocking in the waters of the State.

The grants may be used to build, improve or repair any of the following:

- (a) buildings and structures used as fish hatcheries or for fish rearing
 - (b) Fish rearing ponds
 - (c) Wells or water recirculating systems
- cont on page 4



Friday evening Taste of Wisconsin Aquaculture dinner buffet

ture products paired with interesting ingredients by Chef Dani, a true friend of our industry. This event has evolved into our Friday evening dinner buffet and no one goes away hungry.

Hotel information

The WAA board has chosen Fox Hills Resort in Mishicot as the conference hotel. We have a room block that will be held until 4 pm Feb 4, single rate is \$81, double is \$92, plus tax. This rate includes a hot breakfast buffet. Call 920-755-2376 and mention the Wisconsin Aquaculture Association for the conference rate. Fox Hills Resort is located at 250 West Church Street, Mishicot, 54228. Fox Hills offers over 100 rooms, in room coffee, free wireless, microwave and refrigerators. Suites with a fireplace are available for an additional charge. Amenities include swimming pool, whirlpool, sauna, fitness room, Benchwarmers Sports Bar and the Willowview Restaurant.

Registration form is on page 13

WAA ANNUAL PICNIC HELD AT RUSHING WATERS

On September 19, Rushing Waters hosted the Annual Members Picnic. We were treated to a delicious lunch featuring Rushing Waters trout sliders and trout chowder. See pictures on page 8.

The CREEL

Dec 2013 Volume 46* * * 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

Business Development

Creation, review and development
of business development tools
for aquaculture

Peter Fritsch

Research & Education

Coordination and review of
research, training, educational
programming

Dan Gruendemann
Jim Held

Regulatory Policy

Coordination, review and impact
assessment of regulatory actions

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MEMBERSHIP CATEGORIES

Active (voting): \$50/ year, Associate (non-voting): \$25/ year

Group(1 vote): \$75/ year, All memberships RUN FROM 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

MIKE KELM - QUIET SPRINGS FISH FARM

Hi All,

As the year comes to an end, it is good to look back and see what has all been accomplished. This year has been very active in the Aquaculture industry. In case you missed some of the highlights, here is a brief review:

Sturgeon Workshop: This was held to foster communication between the state and private industry, in hopes of possibly rising sturgeon in the private sector. This could benefit both the state waters, as well as private industry.

WAA Conference: If you missed it, you missed it! The good news is that there is another one in 2014. The region's best Aquaculture networking opportunity.

The effects of how Wisconsin tries to comply with the GLC: (Great Lakes Compact) These are issues that directly affect the Aquaculture Industry, whether you are in the great lakes basin or not. Based upon the results of a recent listening session, the issues appear to be clear, as well as suggested resolutions.

Asian Carp and Big Head Carp Invasive species: This is an issue the DNR is dealing with, as well as other invasive species. Always be sure that your fish are coming from a trusted and permitted source, when stocking. The farms in Wisconsin have been very reliable.

Temporary funding for Aquaculture extension agents and the Governor's Walleye Initiative: This was a big sigh of relief, even if only for one year, as it helped us keep our extension agents funded. The Walleye initiative also included a study that the extension agents are running, which included listening sessions about barriers that prevent the expansion of aquaculture within the State of Wisconsin.

New State Vet: Dr Bob Ehlenfeldt retired after many years of service, Dr Paul McGraw has taken over.

Aquaculture Day events at local farms: Great opportu-

nities for all farms to participate, and promote their products as well as Wisconsin Aquaculture.

On Farm Research: This is being done on a number of farms, as the industry collaborates with researchers to solve issues like discharge limits, feed ingredient sources, and genetics, just to name a few.

First International Aquaponics Conference: This was held at UWSP. This conference focused on one of the faster growing sectors of aquaculture.

National level proposals to make changes to the LACEY Act: Very important and needed changes that affect Aquaculture on a State and National level. There is a real need to define "Farm Raised Fish" as different from "Wild", and to limit prosecution for incidentals in shipments.

Barriers of Aquaculture Advancement Listening Sessions in August and September: Our voices are being heard!

This is just a sample, and it looks as if 2014 will be quite busy as well. Please consider supporting Wisconsin Aquaculture at every opportunity given. Membership to WAA is one of those opportunities, as well as letters to senators and representatives, concerning the legal issues at hand.

Please do not forget: Upcoming WAA conference at Fox Hills

Last but not least. A big **Thank You** to all who have volunteered time, over the last year, in an effort to make Wisconsin the one of the best states for aquaculture. This includes the WAA board of directors, members and their families, extension agents, and our WAA secretary. Also many other "behind the scenes" people, too numerous to name.

Until next time
Mike

TABLE OF CONTENTS

2014 WI Aquaculture Conference to be Held in Mishicot	1
Walleye Initiative Grants Update	1
WAA Committees	2
President's Message - Mike Kelm	3
From the Editor - Cindy Johnson	4
2013/14 Calendar of Events	4
Can't take the country out of DATCP's Mike Bandli	6
NASAC Position Statement on Lacey Act	6
WAA Members Picnic at Rushing Waters Photos	8
Rushing Waters Fisheries' open house highlights expanded facilities	9
SeaGrant Awards Grant to UW-Stevens Point for Aquaculture Education and Training	12
Twelve innovative UW proposals selected to spur economic and workforce development statewide	12
2014 WI Conference Registration form	13
Super salmon set to be first genetically modified animal approved for sale in the U.S	14

There's An App For That!	14
Legislative Updates	16
Buy Local, Buy Wisconsin and Local Food Business Seminars	16
Comments sought on economic impact of proposed changes to the invasive species rule	17
Aquatic Nuisance Species Task Force Meeting	18
From the AADAP Newsletter	19
WAA Quarterly Board Meeting December Agenda	21
WAA Quarterly Board Meeting September Minutes	21

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

The end of another year is close at hand. As Mike pointed out in his President's Message, it has been a very active one for the industry, especially with rules, regulations, policy, etc. It has seemed like most of the articles have been focused on legislative matters, but we need to keep you up to date on the latest news. WAA continues to be proactive and involved in aquaculture issues and concerns that affect you, - our members - and the industry. Your membership, support and involvement is what makes our organization work and stay strong. I was just talking with one of the aquaculture vendors last week and he stated that Wisconsin is the most active association in his territory.

And on the note of membership - **2014 dues are due in December**, so look for your notice that will be coming in the mail and renew your membership. Or if you don't want to wait for the notice, there is a renewal form on the last page of this newsletter.

Fox Hills Resort, in Mishicot, has been chosen as the location for our 2014 Wisconsin Aquaculture Conference. The dates are March 7-8, so reserved those days on your calendar! One of our largest attended conferences in the past 6 years was the one held in east central Wisconsin, so I am looking forward to seeing a lot of members in March! We have raised the registration fee to help us cover the cost of the Taste of Wisconsin Aquaculture Cooking Demo. This has evolved into a buffet with enough food to make it a 12+ course meal. Dani has been generously helping to cover expenses, but we need to step up to the plate (so to speak) and cover all costs for the marvelous food that she prepares for us.

Import Permit Reminder - for those of you who buy fish eggs from out of state, you still need to get a General Permit from DNR for this

Merry Christmas and See you in March!

Cindy

2013/14 CALENDAR OF EVENTS

MEETINGS

Location: Fox Hills Resort, 250 W Church St,
Mishicot, WI 54228 (920) 755-2365
Dec 6 WAA Quarterly Board Meeting, 8-10a
Dec 6 WAIAC Meeting, 10-noon

Location: Fox Hills Resort, 250 W Church St,
Mishicot, WI 54228 (920) 755-2365
March 6 WAA Quarterly Board Meeting, 1-3p
March 6 WAIAC Meeting, 3-5p

2014 WISCONSIN AQUACULTURE CONFERENCE

March 7-8 Fox Hills Resort, 250 W Church St,
Mishicot, WI 54228 (920) 755-2365

Seasons Greetings

THE WAA BOARD AND OFFICERS WISH YOU

A MERRY CHRISTMAS & HAPPY NEW YEAR!



Walleye Grants, cont from page 1

- (d) Biosecurity systems to ensure fish health
- (e) Holding facilities and equipment used for fish brood stock
- (f) Equipment used for the distribution of fish or for the collection of fish spawn

A contract of awarding grant shall state the number of extended growth walleye fingerlings that will be reared as a result of the increased capacity and the purchase price the grantee shall charge to the department for the fingerlings when the construction, improvement or repair is completed.

This rule would support the efforts of the new "Wisconsin Walleye Initiative" which is intended for state, municipal, tribal, and private fish hatchery operations to increase the production of large walleye fingerlings for stocking in Wisconsin waters.

The full document can be found at <http://dnr.wi.gov/About/NRB/2013/Oct/10-13-3B1.pdf>

Can't Take the Country Out of DATCP's Mike Bandli

MADISON – You can take the kid out of the country, but you can't take the country out of the kid. That is true for Mike Bandli. Bandli grew up on his family's farm in Barron County, and he continues to work in agriculture in Madison at the Department of Agriculture, Trade and Consumer Protection (DATCP).

In August, Bandli transitioned at DATCP from his role as an Economic Development Consultant to the *cont on page 6*

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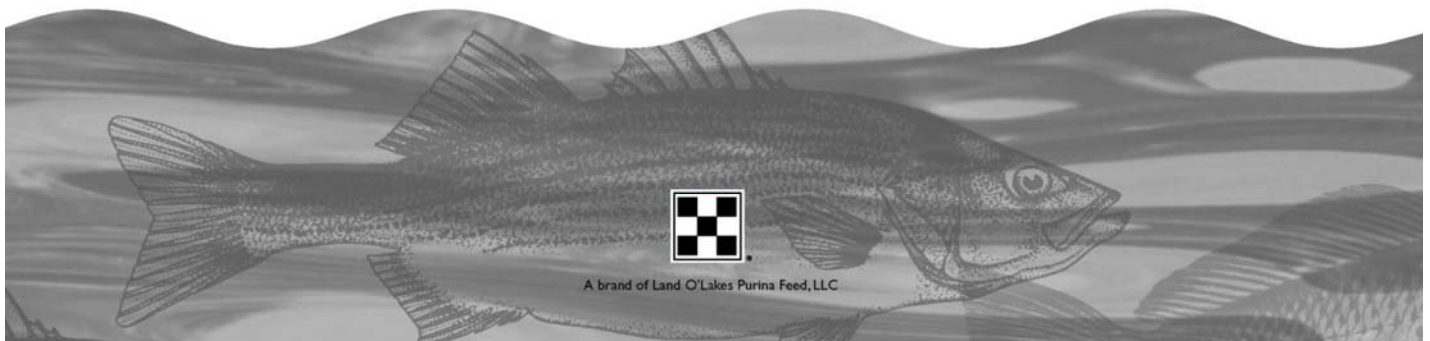


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Ag Development Supervisor. Now as a supervisor, it will be his job to band together the ag business services offered by DATCP into one cohesive team that offers grazing guidance, business assistance, processing pointers and more.

"I really appreciate all the knowledge and skills of the expert staff we have in our area and believe we have a lot to offer our agricultural customers," said Bandli. "I will work to coordinate our business development team so each person can help our clients meet their goals and be successful."

Bandli will supervise the assistance given to organic, grazing, livestock and dairy farms as well as dairy and meat processing facilities. This support includes developing a business plan, generating a budget and connecting people with available resources.

"One of my first goals is to approach stakeholders and identify what support is most helpful to the agriculture industry sector," explained Bandli. "By creating a dialogue in our team and out in the industry, we will best be able to help foster innovative ideas that will lead to development."

After graduating from the UW-River Falls with a degree in mathematics & minor in ag business, he took a marketing job with BouMatic. He always sought a job that would allow him to work in and learn more about agriculture.

Since Bandli began working at DATCP in 1996, he has continued to gain experience on the job and through specialized management training programs. Bandli graduated from the Wisconsin Enterprise Management Development Academy, completed Six Sigma training through black belt level and did coursework with Kepner Tregoe, a management consulting and training services company.

"I look forward to applying these tools I have gained in the areas of continuous improvement, decision making and problem solving with our team at DATCP," said Bandli. "We have an experienced group with a strong agricultural background that can help people develop their ideas step-by-step and overcome challenges."

The Grow Wisconsin Dairy 30x20 Initiative and Specialty Meat Development Center are just two examples of programs that fall under Bandli's direction. The ag development sector team offers one-on-one assistance as well as educational seminars.

"There is so much creativity in the agriculture sector, whether it's creating new products, repurposing materials or using diverse on-farm management strategies," added Bandli. "There are many value-added opportunities in agriculture, and we can help new ideas ruminate and develop. Agriculture really is stronger when you work together to share ideas & plan for the future. I am glad to be a part of it."

For more on the business resources available, visit http://datcp.wi.gov/Business/Business_Resources. To reach DATCP's Mike Bandli, call 608-224-5136 or email mike.bandli@wisconsin.gov. You can also connect with DATCP on Twitter at twitter.com/widatcp or Facebook at facebook.com/widatcp.

Ed Note: Currently there is a bill in Congress, H. R. 3105: Aquaculture Risk Reduction Act Sponsored by Rep. Eric Crawford (R-AK) <https://www.govtrack.us/congress/bills/113/hr3105> addressing changes in the Lacey Act. NASAC members Paul Zajicek (FL) and Ron Johnson (WI), authored the following Position Statement from NASAC (National Association of State Aquaculture Coordinators)

Aquaculture and the Lacey Act

Background

The Lacey Act has been the backbone of wildlife protection since its passage over one hundred years ago; preventing the illegal killing and trafficking of wild game, and stopping the fur/feather trade. Hunters and conservationists agree that the Lacey Act has had a profound positive effect on conserving and protecting wild game not only here in the United States but worldwide. The Act was introduced by Iowa Congressman John Lacey and signed into law by President William McKinley on May 25, 1900. The original Act was directed at the preservation of game animals and wild birds through authority granted to the Department of Agriculture making it "unlawful...to transport from one state or territory to another state or territory...any foreign animals or birds...dead bodies or parts thereof of any wild animal or birds...killed in violation of the laws of the state, territories or District..." It also authorized the Secretary of Agriculture to "regulate the introduction of American or foreign birds or animals in localities where they have not heretofore existed." Specifically, prohibited were the "...importation of the mongoose, the so-called 'flying foxes' or fruit bats, English sparrow, the starling, or such other birds or animals as the Secretary of Agriculture may from time to time declare injurious to the interests of agriculture or horticulture..." The Act has been amended several times with significant changes in 1969, 1981, 1988, and 2008.

The Lacey Act

The Lacey Act is implemented as two Titles in U.S. Code and is administered by the departments of Interior, Commerce, or Agriculture through their respective agencies. These include the U.S. Fish and Wildlife Service, National Marine Fisheries Service, or Animal and Plant Health Inspection Service.

Title 16 Conservation; Chapter 53 Control of Illegally Taken Fish and Wildlife; § 3371 - § 3378

Protects plants and wildlife by creating civil and criminal penalties for a wide array of violations. The Act supports other federal, state, and foreign laws protecting wildlife by making it a separate offense to take, possess, transport, or sell wildlife that has been taken in violation of those laws. The Act prohibits the falsification of documents for most shipments of wildlife and prohibits the failure to mark wildlife shipments. In 2008, the Act was amended to prohibit the harvest, cutting, logging or removal of "any wild plant" in violation of any federal, state or foreign law.

Cont on pg 9

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Some of Rushing
Waters' processing
staff



Rushing Waters Fisheries' open house highlights expanded facilities

Walworth County Today Staff | November 5, 2013

PALMYRA – Rushing Waters Fisheries is holding an open house Saturday, Nov. 9, from noon to 4 p.m. at its farm and store, located at N301 County Highway H in Palmyra.

The facility expanded the seafood products in their retail store, added space to host private events and corporate retreats, and opened a restaurant for weekend dining.



The open house will feature interactive tours of the 80-acre farm showcasing the spring water-fed ponds and raceways where the fish are raised, and the newly expanded and renovated building, including the processing facility, the retail space known as The Farm Store, and the dining venue which now seats more than 80 guests at a time.

In addition to tours, the open house will feature complimentary passed hors d'oeuvres featuring trout and salmon smoked on-site, wine sampling for the adults, and free rentals of fishing poles for anyone who wants to get one more bite before winter.

<http://www.walworthcountytoday.com/article/20131105/WC/131109908/1160>



Trout House Ribbon Cutting - Peter Fritsch, left & Bill Graham right

NASAC Position Statement, cont from page 6

Title 18 Crimes and Criminal Procedures; Part I Crimes; Chapter 3 Animals, Birds, Fish and Plants; § 42 Importation or shipment of injurious mammals, birds, fish (including mollusks and crustacea), amphibia, and reptiles; permits, specimens for museums; regulations
Prohibits importation of wild vertebrates and other animals listed in the Act or declared by the Secretary of the Interior to be injurious to man or agriculture, wildlife resources, or otherwise, except under certain circumstances.

Critical Issues

Domestically cultured aquatic species should be excluded – The intent of the Act was to support state wildlife and fishery regulations; however, with the growth of US aquaculture and its recognition as an agricultural activity, there has not occurred revisions to the Act to exempt domestically produced aquatic species. Within the statutes authorized by the Act, USDA defined wild members of the plant kingdom and excluded common cultivars and food crops (except planted trees). USFWS defines “fish and wildlife” as any wild animal including those bred, hatched or born in captivity. The Act should be amended to exempt domestically produced aquatic species.

Extreme penalties should be reduced – A 1981 amendment to the Act established the punishments of 5 year imprisonment or \$20,000 fine; however, as provided for in 18 USCA §3571(e) misdemeanor penalties can be one year in prison and/or \$100,000 fine (\$200,000 for a business) and felony penalties can be up to 5 years in prison and/or a \$250,000 fine (\$500,000 for businesses). The Act should be amended to exclude penalty provisions from the extreme penalties provided in 18 USCA §3571.

“Willfully” versus an all encompassing “knowingly” – As a result of the 1969 amendments to the Lacey Act, any person that “willfully” violated the law was subject to penalty. However, the 1981 amendments changed this, holding all those who “knowingly” import or “knowingly” engage in certain conduct subject to felony penalties. The higher standard of willfulness required federal prosecutors to prove that the defendant not only wanted to cause harm but that he also knew that harm was certain to occur as a result of his actions. However, “knowingly” only requires proof that a person is practically certain his conduct will lead to the violation. For example, a farmer could be found guilty under the “knowingly” standard if he knows that an injurious or listed species is present near the farm, but still sends out a shipment that happens to include a hitchhiking live animal. Even if the farmer is ignorant of and may not be able, for all practical purposes, to exclude the hitchhiker, he may still be convicted because of his knowledge of the nearby population. As a result, the Act *cont on pg 10*

NASAC Position, continued from page 9

should be amended back to the original mens rea requirement of “willfully” or to the more contemporary requirement of “purposely.”

The misdemeanor provision states that “...any person who knowingly engages in conduct prohibited by any provision of this chapter...and in the exercise of due care should know that the fish or wildlife or plants were taken, possessed, transported, or sold in violation of...” The “knowingly” standard, where a person is practically certain his conduct will lead to a harmful result, is modified to incorporate elements of negligence through the phrase, “in the exercise of due care.” Negligence is a very low standard to prove. As a result, the prosecutor would just have to prove that the producer knew he was shipping fish across state lines and didn’t use due care in preventing injurious or listed species from hitchhiking in the load. The Act should be amended to remove the phrase “in the exercise of due care.”

Fail to label a package is a crime – The Act states, “It is unlawful for any person to import, export, or transport in interstate commerce any container or package...unless the container or package has been previously marked, labeled, or tagged in accordance with regulations issued pursuant...” to the Act. This provision does not require any mens rea at all, and is thus a strict liability offense, where a person’s mental state is irrelevant. Strict liability is very rarely a standard in criminal law, as legislatures prefer to only hold people responsible for actions they intentionally or negligently perform. Instead, “the Act should be amended to read that “It is unlawful for any person to knowingly import, export, or transport in interstate commerce...” a package that is not labeled as required by regulations developed pursuant to the Act.

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[LACEY.HTML](#)).

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The Model Penal Code was written by the American Law Institute in 1962 to standardize the definition of crimes across all states. Many states have adopted parts of it, including the “mens rea” or mental state provisions. The Code has five mens rea categories. They have very specific legal definitions and are summarized here for clarity. The categories are:

- Purposely - the actor wants to cause the harm and he knows that the harm is virtually certain to occur as a result of his conduct.
- cont on pg 12*

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



"Kasco Aerators are THEE most effective aerator out there. Not only do they aerate effectively, they also degas carbon dioxide. We have some units that have been operating for 10 years without any work done to them at all!"

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



"I use and sell Kasco Aerators because they have always been dependable and have served us well in our small ponds."

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



"We have a bunch of Kasco units and find them to be efficient, dependable, and portable. They are a good choice for our farm!"

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

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Need we say more!

NASAC Position, continued from page 10

- Knowingly - the actor is practically certain that his conduct will lead to the result.
- Recklessly - the actor is aware that the attendant circumstances exist, but nevertheless engages in the conduct that a "law abiding person" would have refrained from.
- Negligently - the actor is unaware of the attendant circumstances and the consequences of his conduct, but a "reasonable" person would have been aware.
- Strict liability - the actor engaged in conduct where his mental state was irrelevant.

SeaGrant Awards Grant to UW-Stevens Point for Aquaculture Education and Train-

The University of Wisconsin-Stevens Point has been awarded a grant for their project "Workforce education and training for environmentally and economically sustainable Great Lakes aquaculture." Dr. Chris Hartleb will be the principal investigator on this grant.

The project objective is: To increase aquaculture workforce education and training opportunities and to provide skilled workers for a continuously developing aquaculture industry.

This will be achieved by:

- 1) developing a series of nine, three to five-day teaching modules based on topics the Great Lakes aquaculture industry has identified as deficient in current education offerings, and
- 2) deliver these teaching modules through a 3-tiered system of progressive advancement using online lectures and in-person workshops for direct technology transfer.

Editors Note – Some funding for the two Aquaculture Outreach Specialists (Jim Held & Ron Johnson) is included.

Twelve innovative UW proposals selected to spur economic and workforce development statewide

November 1, 2013

MADISON, Wis. – University of Wisconsin System institutions got the green light today to deploy \$22.5 million over the next two years to support increased economic growth and a stronger Wisconsin workforce.

"This represents the Wisconsin Idea at its best," said UW System President Kevin P. Reilly. "We are investing university resources to address key state priorities. These investments will help drive regional economic development and advance new educational and research initiatives to support traditional and emerging Wisconsin industries."

"We see this as an important strategy in more effectively aligning UW campus collaborations with economic and workforce development initiatives wherever they occur in the state," said Regent Tim Higgins, chair of the Board of Re-

UW Proposals Selected, continued

gents' Research, Economic Development, and Innovation Committee. "These efforts will provide direct benefit to businesses and communities statewide, and create new and expanded opportunities for our students and faculty."

Two awards are of special interest to the aquaculture industry:

UW-Milwaukee, UW-Parkside, UW-Whitewater

- Research and Training Center for Commercialization of Intensive Aquaculture & Aquaponics (\$2,452,500)

UW-Stevens Point, UW-Extension

- Aquaculture Business Incubator and Aquaponic Innovation Center: Economic Development for Emerging Agricultural Industries (\$677,500)

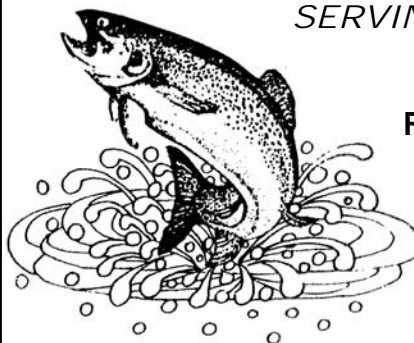
Editors Note –Funding for the two Aquaculture Outreach Specialists (Jim Held & Ron Johnson) was included in the UW-Stevens Point grant [However, the grant was reduced so their funding is at 84% for FY 2014-2015]. Dr. Chris Hartleb is the principal investigator on the grant.

In partnership with UW-Extension, a new business incubator will be created to increase workforce education and training opportunities in sustainable food production. Specific project activities are to: 1) form a collaborative venture with UW-Extension and UW-Stevens Point capitalizing *Cont on pg 14*

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19th Annual - 2014 Wisconsin Aquaculture Conference

March 7-8, 2014

REGISTRATION FORM

Please include additional information for each additional attendee - you may also register online.

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Business/Organization _____

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City/State/Zip _____

Phone _____ Email _____

Registration fees, per person

Conference registration fees includes:

Friday lunch, Friday Taste of Wisconsin Aquaculture buffet dinner, Saturday lunch, 3 breaks & Friday evening reception

	/person fee	# people	Total
Fri/Sat, Mar 7-8, WAA member	\$115	x _____	_____
Fri/Sat, Mar 7-8, non WAA member	\$145	x _____	_____
(this includes a complimentary 1 yr membership to WAA)			
Additional person, same organization	\$95	x _____	_____
Spouse	\$65	x _____	_____
Student (High School or College)	\$65	x _____	_____
Friday, March 1, only	\$85	x _____	_____
Saturday, March 2, only	\$70	x _____	_____
Saturday, including Friday evening buffet	\$85	x _____	_____
Friday lunch only	\$15	x _____	_____
Friday Taste of WI Aquaculture buffet only	\$15	x _____	_____
Saturday lunch only	\$15	x _____	_____
Late fee, after Sunday February 23	\$25	x _____	_____
			Total _____

**Refunds - before Sunday February 23 \$25/person penalty,
after Sunday February 23 -no refund**

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Billing address, include zip _____

Credit card name - circle one: MasterCard, Visa

Credit card number/exp date _____ 3 digit security code on back of card _____

Please remember to register early so you can avoid the late fee, we can get you on our meal list and to also insure that your registration will arrive in our office in time.

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on the combined aquaculture knowledge to create an **Aquaculture Business Incubator** that will offer continuing education courses, develop economic models, and advance industry expansion by streamlining laws, rules and regulations, and 2) establish an **Aquaponic Innovation Center** that will expand near-term training, skills, and knowledge for this rapidly developing aquaculture sector by providing a location for investigating new business innovation, production diversification, and creating pathways to overcome obstacles for a rapidly growing new food production industry. These programs will be able to provide immediate economic development and job growth while generating new partnerships for aquaculture and aquaponic startups throughout Wisconsin.

Super salmon set to be first genetically modified animal approved for sale in U.S

UNITED STATES Wednesday, October 23, 2013
NEW YORK - A new "super salmon" is expected to be approved for sale in the US within the next few weeks, reigniting a heated debate over genetically-modified food.
 Source: Jon Swaine / The Province

The salmon would be the first GM animal ever approved for human consumption, and has been under development in Massachusetts for 18 years. It is expected to be cleared for sale soon by the US Food and Drug Administration (FDA), and now American supermarkets are coming under increasing pressure to refuse to stock the fish.

... opponents claim the fish poses a risk of cancer to consumers and could destroy other breeds. They also point to polling suggesting that some 90 per cent of Americans do not want GM fish to go on sale. While the salmon's manufacturer insists it is producing only sterile female fish, campaigners argue that as fish have been known to change sex under stress, there is a risk of contamination with wild salmon. So far a dozen major retailers, including Whole Foods, Trader Joe's and Target, have promised to boycott the salmon, bred by the GM firm AquaBounty in Canada. A statement by Kroger, the parent company of six popular chains of US supermarkets, saying that it had "no intention" to sell genetically engineered salmon was dismissed as "weak" by campaigners who directed 27,000 supporters to write to the company's management.

Urging them to "create a tsunami of messages", Friends of the Earth have now called on supporters to tweet at Kroger's brands or make complaints via telephone using a script provided by the group. The campaign has been joined by the two US senators for Alaska, where old-fashioned salmon fishing remains a crucial industry. "These so-called 'Frankenfish' pose a real risk to ocean ecosystems," said

Senator Mark Begich. "Well-managed, wild salmon are one of our nation's richest resources." An approval and successful launch of AquAdvantage could persuade food companies in Britain to lobby for the right to apply for their own licenses to begin producing GM fish or meat.

In iTunes store for iPhone, iPad, iPad Mini, iPod Touch, MAC, & PC

THERE'S AN APP FOR THAT!

AquaCide - \$2.99

<https://itunes.apple.com/us/app/aquacide/id722031732?ls=1&mt=8>

The Aquatic herbicide selection, effectiveness, and restriction guide is a tool for recreational pond managers as well as aquaculture professionals. This comprehensive visual guide helps you select the most effective herbicides for all aquatic vegetation classes, including the most common North American algae and floating, submerged, and emergent aquatic vegetation. Only herbicides that provide good or excellent control are provided for each species. AquaCide provides the environmental restrictions of all aquatically labeled herbicides, such as restrictions for human use (drinking, swimming, and fish consumption), livestock watering, irrigation (turf and crops), & other general comments pertaining to restrictions and differences in formulation. Keywords: AquaCide, herbicide, pond management, aquaculture

AmmoniaCalc - \$1.99

<https://itunes.apple.com/us/app/ammoniocalc/id722048864?ls=1&mt=8>

The un-ionized ammonia calculator is an invaluable resource for on-the-go aquaculture producers and managers as well as home aquarium hobbyists. Ammonia is the major end product in the breakdown of proteins in fish. Total ammonia nitrogen (TAN) is composed of toxic (un-ionized) ammonia (NH₃) and nontoxic (ionized) ammonia (NH₄⁺). Over time the buildup of ammonia within the fish system, combined changes in pH & temperature causes fluctuations in the concentration of toxic un-ionized ammonia. AmmoniaCalc allows the user to input simple, easily measured water chemistry measurements such as pH and temperature to instantly calculate the un-ionized ammonia concentration. Keywords: ammonia, calculator, aquaculture, aquarium, fish, toxic, water quality.

AquaPlant - \$5.99

<https://itunes.apple.com/us/app/aquaplant/id722310302?ls=1&mt=8>

AquaPlant is designed to help pond owners and their advisors in the identification and management of aquatic vegetation. After identification of the aquatic is achieved with the visual index and description pages of *Cont on page 16*



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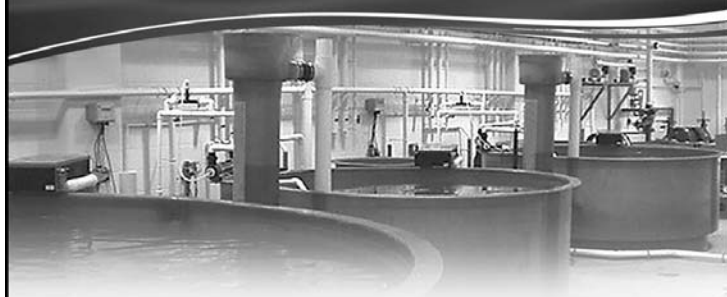
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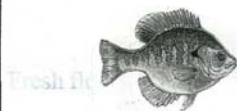
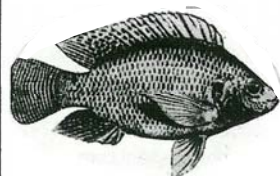
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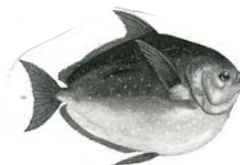


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AquaPlant, the user can then use the management section for each species to learn the correct treatment options including biological, mechanical, and herbicide controls. Keywords: aquatic, vegetation, management, plant, identification, herbicide, grass carp.

AquaRef - \$0.99 <https://itunes.apple.com/us/app/aquaref/id704586063?ls=1&mt=8>

AquaRef – The aquaculture & pond manager quick reference guide is an inclusive set of tables and conversion factors for aquaculture professionals. Conversion factors range from the weight of chemical units that must be added to water to achieve particular concentrations to temperature conversion to volumetric water conversion factors to metric-English conversion for chemicals. This guide is packed full of useful information including pond filling time, pumping rate equivalents, discharge rates from standpipes, net mesh sizes for grading fish, length/weight relationships for fish, oxygen saturation points, pounds of fish that can be hauled at temperature, egg development stages, stocking guides, fertilization rates, and much more. Texas A&M AgriLife Extension's AquaRef is credited in large part to Larry Dorman, Univ. of Arkansas at Pine Bluff, as he developed many of these materials for the Aquaculture Producer's Quick Reference Handbook. Tables were reproduced with permission.

Keywords: aquaculture, pond, reference, guide, conversion, fish

PondCalc - \$1.99 <https://itunes.apple.com/us/app/pondcalc/id709517896?ls=1&mt=8>

This tool allows the user to quickly and easily calculate the surface area of any shaped pond and then calculate the number of acre feet, all without having to do any math.

Keywords: pond, area, volume, acre-feet, calculator

Legislative Updates

Ron Johnson, UW-Extension, Aquaculture Specialist

Lake Sturgeon White Paper

A draft of the Lake Sturgeon White Paper, has been completed and sent to the DNR and DATCP for comments. We are reviewing the comments before final submission to the Secretary's of DATCP and DNR, Governor and Legislature. The report will be available on the WAA website as soon as it is made public.

Rules & Regulations Study

Two Listening Sessions were held on August and September 4. The comments were sorted as to statute, administrative rule and policy concerns by Ron Johnson and Jim Held, put into a report and sent to DATCP and DNR. The final report from DNR and DATCP is finishing up as the Creel goes to print. It will be available online on November 15.

Walleye Initiative Capacity Study

Legislative Updates, continued

The Walleye Initiative Capacity Study is due June 30, 2014. This study will involve DNR, DATCP, WEDC and UW-EX. A meeting with all agencies concerned will be scheduled for late 2013.

EPA Water Quality Regulatory Clarifications

On Wednesday, September 4th, the EPA published in the Federal Register the proposed regulatory clarifications. Comments must be submitted before December 3, 2013. The EPA is proposing changes to the federal water quality standards regulation which helps implement the Clean Water Act. The 30 page document can be found at <http://www.gpo.gov/fdsys/pkg/FR-2013-09-04/pdf/2013-21140.pdf>

DATCP Rule Changes

The proposed changes affect animal disease control in livestock; animal movement regulations; and clarifying regulations concerning animal truckers, dealer, and markets. DATCP periodically revisits regulations to update them. These rule changes will modify current animal health rules to align with federal regulations, state statutory requirements, and previous rule modifications. The proposed rule will also make various modifications to provide for flexibility, clarity and consistency (These rules for fish health will align with the statute changes from 2012). The rule changes can be found at

<http://datcp.wi.gov/uploads/Animals/pdf/OfficialRuleDraft.pdf>

Buy Local, Buy Wisconsin: Upcoming Local Food Business Seminars

The Local Food Business Seminars will provide producers with an affordable opportunity to learn technical assistance skills from regional experts and peers in a classroom and/or webinar setting. This year's seminars are presented monthly by DATCP and University of WI-Cooperative Extension. UW-Cooperative Extension and the Department of Ag, Trade, and Consumer Protection have partnered to bring WI Local Food Business Seminars to four locations around the state. Rachel Armstrong of Farm Commons and Courtney Berner from the UW Center for Cooperatives will address the **legal issues involved with starting and running your own food or farm business** in an interactive setting.

Through the duration of the workshop, you will learn basic legal principles of business entities and employment, recognize potential legal issues in forming a business and hiring employees, discuss insights and opinions on forming a business and hiring employees, and create draft legal provisions for an operating agreement agenda. For more information and to register go to: <http://datcpservices.wisconsin.gov/confreg/BLBWBusinessStructures.jsp>

For more information on future topics *cont on page 17*

Local Food Business Seminars, cont from pg 16

(Food safety requirements and available resources; Marketing 201 will be cover packaging/labeling, social marketing, e-commerce, and web presence; and a panel of buyers from restaurants, food service directors and grocery stores is planned to cover what is needed to sell through a distributor)
http://datcp.wi.gov/Business/Buy_Local_Buy_Wisconsin/BLBW_Workshops/index.aspx

Buy Local, Buy Wisconsin is an economic development program designed to increase the purchase of Wisconsin grown/produced food products for sale to local purchasers.

Comments sought on economic impact of proposed changes to the invasive species rule

MADISON -- Businesses, developers, scientists and citizens have through Dec. 31 to submit comments on the potential economic impact of proposed changes to a state rule to prevent the introduction of new invasive species to Wisconsin and to control or eradicate those here but not yet established. Proposed changes to the rule, Natural Resources Chapter 40 of the Wisconsin Administrative Code, <http://dnr.wi.gov/topic/invasives/classification.html>, include adding 86 plants and animals to the list of regulated species. Activities that include habitat restoration, soil movement, outdoor recreation,

Invasive Species Rule, continued from page 16

water usage, landscaping, gardening, or habitat management may be affected by the proposed changes.

Department of Natural Resources staff will use the information submitted regarding the potential costs and benefits of the proposed changes to the rule to prepare the economic impact analysis now required by law.

DNR invasive species staff worked with the Wisconsin Council on Invasive Species and affected stakeholders to review and propose revisions to the invasive species rule, which first became effective in 2009.

The invasive species rule classifies invasive species into two categories: "prohibited" and "restricted." With certain exceptions, the transport, possession, transfer and introduction of prohibited species are banned. Restricted species are also subject to a ban on transport, transfer and introduction, but possession is allowed, with certain exceptions.

The current proposal calls for adding 51 new species for listing as prohibited including the animals nutria and the Malaysian trumpet snail. The proposal also calls for listing 33 more species as restricted, and two as both prohibited and restricted.

A preliminary draft of the changes to the rule, the potential economic impacts, and detailed information on the proposed species are available on the DNR website (dnr.wi.gov) by searching keyword "NR 40."

Administrative rule documents also available *cont on pg 18*



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Comments, Invasive Species, cont from page 17

at: <https://health.wisconsin.gov/admrules/public/Home>

Comments may be submitted electronically to: Invasive.species@Wisconsin.gov or may be mailed to: Wisconsin DNR- Bureau of Science Services, Invasive Species EIA Solicitation, PO Box 7921, Madison, WI 53707. Comments are to be postmarked no later than Dec. 31, 2013.

Any local governmental unit that is affected by the proposed rule changes also may request to coordinate with DNR on preparation of the economic impact analysis. That governmental unit must notify DNR of its request to coordinate when it submits comments on the economic impact analysis.

Prohibited fish: Snakehead, Grass Carp, Red Shiner, Eastern and Western Mosquitofish, Silver Carp, Bighead Carp, Black Carp, Zander, Rudd, Tench, all other nonnative fish except: established non native fish, nonnative viable fish species in the aquarium trade, non native fish species in the aquaculture trade, and fish species that the department has determined are nonviable fish species.

Restrictive fish: Established non native fish species, non native viable fish species in the aquarium trade, non native fish species in the aquaculture trade, and nonviable fish species.
FOR MORE INFORMATION CONTACT: Terrell Hyde 608-264-9255 or Dreux Watermolen 608-266-8931.

Aquatic Nuisance Species Task Force Meeting (ANSTF), November 6-7th, 2013

NOAA Headquarters, Silver Springs Maryland
Ron Johnson, NASAC Representative

The ANSTF is made up of 13 Federal agencies, 13 ex-officio non-federal members and also includes the six regional ANS panels. The National Association of State Aquaculture Coordinators (NASAC) is the only aquaculture organization on the task force. Two meetings are convened each year; the fall meeting is held in Washington DC and the spring meeting is held in conjunction with a regional panel. The spring 2013 ANSTF meeting which was suppose to be held in Duluth, Minnesota was canceled do to the restrictions on federal agencies travel; instead a webinar was conducted.

The fall 2013 ANSTF meeting was hosted by NOAA and held at their headquarters in Silver Springs, Maryland. The two full days of meetings are divided into action items from previous meetings, informational items of concern, discussion or status reports from previous items, decisional where the task force votes on guidelines, management plans or action items, and updates from regional panels and individual members.

Highlighted items from this meeting include: adoption of the Recreational and Water Garden Guidelines, Biocontrol Programs and their status, an update on Lionfish and the prevention plan, an eDNA session, status of Asian *cont on page 19*



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Carp Plan, update on National Snakehead Management and Control Plan, approval of the Arkansas ANS Management Plan, Stop Aquatic Hitchhikers update, and funding issues surrounding ANS and feral agencies.

The eDNA session was pulled together by Bill Bolen, EPA which included talks from several speakers outlining the uses of eDNA in field work, limiting factors and false positives or negatives with laboratory samples, eDNA transmitted by vectors in feces, advancements in quantifying markers, and the need for standardization of protocols for laboratories. eDNA is no longer a sole trigger for Rapid Response on Asian Carp but must include backup data before response is authorized.

The Lionfish discussion was interesting because it appears relatively few individuals have produced a very wild ranging invasion in the Gulf and Atlantic oceans, are growing larger and invading spaces (up to 1000' deep) that they do not in their natural range. The Lionfish Prevention Plan is still being worked on and will be submitted at a later date.

The National Snakehead Management and Control Plan is being revised after review by the ANSTF and comments from myself and others at NASAC concerning the lack of a risk analysis and budget.

The Arkansas ANS Management Plan was approved bringing to date 43 states that have approved plans. It is interesting to note that as each state plan gets approved the pot of money remains the same so each state gets less with each approval.

Doug Grann, Wildlife Forever President and CEO gave an update on the partnership between local, state and federal partners on the Stop Aquatic Hitchhikers campaign. There have been one billion impressions in outreach on the Threat Campaign to get awareness out to the public on invasive species. Doug Grann and I spoke about how the aquaculture industry could work together with the Stop Aquatic Hitchhikers campaign to get a positive message out about the aquaculture industry and the good work that is being done privately.

If anyone has specific questions or would like more information on the ANSTF place contact me.

Ron Johnson, 715-248-3657
Ron.Johnson@ces.uwex.edu

Aquaflor®: Environmental Assessment for Freshwater-Reared Finfish in Recirculating Aquaculture Systems

Merck Animal Health has been notified by the FDA that the Environmental Assessment (EA) technical section is now "complete" for the use of Aquaflor® (50% florfenicol) Type A Medicated Article in freshwater-reared finfish in recirculating aquaculture systems. For more information about Aquaflor® and its FDA-approved uses *Cont on page 20*

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FDA Answers Your Questions About Fish Drugs

The American Fisheries Society's (AFS) Fish Culture Section (FCS) Working Group on Aquaculture Drugs, Chemicals, and Biologics (WGADCB) has announced that the much anticipated article, *FDA Answers Your Questions About Fish Drugs*, will be published this fall in the AFS monthly publication, *Fisheries*.

an advance copy of the article can be downloaded from the AFS FCS WGADCB webpage: <https://sites.google.com/site/fishculturesection/working-group-on-aquaculture-drugs-chemicals-and-biologics/wgadcb-resources-and-tools>.

AADAP DRUG UPDATES

We're wrapping up a couple of big projects while waiting for FDA responses to our research study protocol submissions and technical section complete requests. Here's what we've been up to:

AQUI-S®20E (10% eugenol)

Effectiveness—On May 16, 2013, we heard back from FDA that the effectiveness technical section has been considered complete to sedate all freshwater finfish, including ornamental finfish, to handleable. Ta-da!

In addition, FDA provided us with comments on the draft

AQUI-S®20E product label. We're addressing FDA's comments while making a few minor revisions of our own. We'll turn the revised draft label over to the sponsor (AQUI-S New Zealand, Ltd., Lower Hutt, New Zealand), who will ultimately submit it to FDA when applying for an initial approval.

Target animal safety—As you may recall, three separate and independent studies were conducted to evaluate the safety of AQUI-S®20E to fingerling rainbow trout, yellow perch, and channel catfish. All three studies have been completed. The rainbow trout final study report (FSR) was submitted to FDA on June 12, 2013. We anticipate submitting the yellow perch and channel catfish FSRs to FDA this fall, along with a request that the target animal safety technical section be considered complete for sedating all freshwater finfish to handleable.

SLICE (0.2% emamectin benzoate)

Target animal safety—Recently, we received a letter from FDA informing us that the SLICE® target animal safety study that we conducted on rainbow trout has been accepted. In this study, we found that SLICE® could be administered in feed to fingerling rainbow trout at a dose 2-3 times higher than the proposed efficacious dose (50 µg emamectin benzoate/kg fish/day) for 2 times the proposed treatment period (7 days) with no adverse effects (i.e., no mortality and no gross or microscopic lesions). This definitely puts us one step closer to an approval. Ta-da!

AQUI-S®20E (10% eugenol) Withdrawal Periods

There have been questions about the withdrawal *cont pg 22*

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

**Wisconsin Aquaculture Association
Quarterly Board Meeting
December 6, 2013**
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AGENDA

Minutes from 09-19-13 and approval
Treasurer Report and approval
Secretary Report
Committee Reports -
 Regulatory
 Business Development
 Research & Education
Upcoming Workshops
Other Old Business
New Business
Adjourn

WAA Quarterly Board Meeting September 19, 2013 Rushing Waters Fisheries, WI 9am-11am

The meeting was called to order at 9:13am by Dan Gruendemann

Board members present: Board Chairman, Dan Gruendemann; Board Members: Rick Decker, Peter Fritsch, Jeff Taylor, Ben Gollon, Secretary, Cindy Johnson.

Members not present: President, Mike Kelm; Vice President, Terry Hogan; Board Members: Rebecca Nelson, Tim Gollon

Others Present: Ron Johnson, Extension; Jim Held, Extension; Don Bloecher, Timber Court Fish Hatchery; Dave Luety II, DL & Sons Farms; David Gruendemann, Northside Enterprises; Cate Rahmlow, WEDC; Patty Taylor, Star Prairie Trout Farm.

Introductions were made.

Peter Fritsch gave brief update about the renovations and expansion at Rushing Waters Fisheries he will give a tour following lunch..

Financial Report for June 1-August 2013

Motion made by Dan Gruendemann to approve, Jeff Taylor 2nd. Request was made to have a financial graph made for the December meeting showing income and expense over the past 6 years.

Minutes from March WAA Quarterly Board Meeting, WAA Annual Board Meeting and WAA Annual Member Meeting

Dan made the motion to accept, Peter Fritsch 2nd.

2014 Conference

There was discussion on topics, speakers and a theme. This will be followed up on via email. Suggested topics include aquaponics, advances in aquaculture feeds, Walleye grant update, update of algae research at Rushing Waters, Walleye Initiative update, aqua-tourism, Michigan Aquaculture Initiative update, do it yourself fabrications for your farm, plastic welding, and increasing production on your farm.

It was discussed and agreed on that an additional fee will be added to the conference registration to cover the costs incurred for the Taste of Wisconsin Aquaculture Cooking Demo and the reception that follows. With all the dishes that are made up, the demo has evolved into an becoming an actual meal and \$15 would be a reasonable fee.

Extension

An update sheet was passed around that covered Lake Sturgeon White Paper, Rules and Regulations Study, Walleye Initiative Grant Program, Walleye Initiative *cont on page 22*

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WAA Minutes, continued from page 21

Capacity Study, EPA Water Quality Regulatory Clarifications, DATCP Rule Change, NASAC, and ANSTF (the update will be posted in the CREEL.) It was mentioned having WAA ask NAA to give an update on the EPA Water Quality Regulations.

Extension Funding – there will be a Hatchery Stamp study. The stamp money will be split between DNR and the industry and can be used for stocking and extension funding.

Other Business

Peter Fritsch discussed a research project on “Rotating Algal Biodiscs for Removal of Nutrients in Aquaculture Wastewater” which will be conducted at Rushing Waters Fisheries. This project will investigate using algae to use up phosphorus in water. It has the potential to have global promise and implications for aquaculture. Dan Gruendemann made the motion for WAA to send a letter of support, 2nd by Jeff Taylor, passed.

The Wisconsin net pen bill was brought up and discussed. This is a bill that will allow net pens in waters of the state for up to 8 weeks. There are several concerns with this bill as it is written – private people with little experience to no experience will be allowed to raise fish (which will be stocked into waters of the state). If something goes wrong, it will not put commercial aquaculture in a good light.

WAA received a donation from a member of \$300. It was decided to put this money towards purchasing a video camera that can be projected on a screen for use during the conference cooking demo.

Dan Gruendemann made the motion to adjourn, Jeff Taylor 2nd, meeting adjourned at 11:15am

Respectfully submitted by Cindy Johnson, Secretary

AADAP Newsletter, cont. from page 20

periods required for fish sedated with AQUI-S®20E under INAD 11-741. These withdrawal periods are as follows:

- (1) Hatchery and marine fish: a 72-hour withdrawal time is required; and
- (2) Freshwater fish sedated in the field : Immediate release (i.e., 0-hour withdrawal time) approved.

Aquaflor® (50% florfenicol) Withdrawal Period for Warmwater Finfish

The AADAP Program has received from FDA an amended authorization for Aquaflor® INAD 10-697. We are now allowed a 15-day withdrawal period (instead of a 28-day period) for warmwater finfish treated under this INAD. This authorization is effective immediately.

AADAP Newsletter, continued

Text provided by Bonnie Johnson

bonnie_johnson@fws.gov), National INAD Program Administrator, USFWS AADAP; Bozeman, Montana USA

USGS's UMESC CORNER

Eugenol

The U.S. Geological Survey's (USGS) Upper Midwest Environmental Sciences Center (UMESC) in La Crosse, Wisconsin, completed a definitive study to characterize the depletion, distribution, and identification of eugenol residues in the fillet tissue from exposed fish. Data indicated that (1) maximum eugenol and 14C-eugenol equivalent residue concentrations in the fillet tissue were measured immediately after the exposure; (2) eugenol was the primary 14C-residue; and (3) the depletion of 14C-eugenol residues from the fillet tissue was rapid ($t_{1/2} = 26.25$ min) after transferring the exposed fish to fresh flowing water. Contact Jeff Meinertz, jmeinertz@usgs.gov, for more information.

UMESC conducted a series of studies to assess the utility of using AQUI-S®20E as a sedative to reduce the activity of yellow perch and tilapia during live transport. A portion of the research assessed exposure parameters (concentration and duration) that would safely sedate fish while maximizing fish loading density during transport. Both species were exposed to 0, 100, 200 and 300 mg AQUI-S®20E/L at 3 loading densities; yellow perch, 120, 240, and 360 g/L; tilapia, 240, 360, and 480 g/L. There was greater than 95% survival with yellow perch and greater than 90% survival with tilapia after exposure to all concentrations and loading densities and for exposure times as long as 10-h. Contact Aaron Cupp, acupp@usgs.gov, for more information.

Hydrogen Peroxide

UMESC is conducting research to expand the label for 35% PEROX-AID® to include the reduction of *Gyrodactylus* sp. infestation density on cool and warmwater fish species. Two trials have been completed, one with fathead minnows and a second trial with yellow perch. Following treatment, both fathead minnows and yellow perch experienced a reduction of >97% in parasite density on fish in the treated groups. Contact Sue Schleis, sschleis@usgs.gov, for more information.

Text provided by Jeff Meinertz (jmeinertz@usgs.gov), Research Physiologist; USGS UMESC; La Crosse, Wisconsin USA.

**MARK YOUR CALENDARS FOR THE
2014 WISCONSIN AQUACULTURE
CONFERENCE IN MISHICOT
MARCH 7-8**

WISCONSIN AQUACULTURE ASSOCIATION, INC. MEMBERSHIP APPLICATION/RENEWAL FORM

**2014 DUES ARE
DUE!**

Membership levels & benefits

Associate - \$25 Receive 4 issues of The Creel, name & address listed on members search, inclusion on member only list serv for vital information, discounts on conference and selected workshop registrations, use of WAA portable display to promote Wisconsin Aquaculture, annual members' picnic, participation in annual Wisconsin Aquaculture Day, annual membership meeting.

Full/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, produce type, sales and fish species (this is an asset if you sell fish wholesale or retail).

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

For Renewals: 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

Type of Membership: ☐ Renewal ☐ New

Full/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)

If you have a Full member please include the fish species and if you sell for food or stocking

ADVERTISING OPTIONS AND RATES

On our website

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.

Banner Ads: \$100/year

Web classifieds are free

In the CREEL

Prices are per issue ☐ Full Page \$100; ☐ 1/2 Page \$60; ☐ 1/4 Page \$40

Send this form & a check or money order to: **WAA, P.O. Box 37, Star Prairie, WI 54026**

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