

# WAA The CREEL

Published by *The WISCONSIN AQUACULTURE ASSOCIATION*

Volume 49 Number 3 [www.wisconsinaquaculture.com](http://www.wisconsinaquaculture.com)

Fall 2016

## 2017 CONFERENCE RETURNS TO MARSHFIELD

The WAA board has chosen Marshfield for the location of the 2017 Wisconsin Aquaculture Conference with the dates being March 3 & 4. The board wanted a central location and since the Marshfield venue was well received, decide to return there for 2017.

The Conference registration form and additional information will be in the next CREEL.

Hotel Marshfield, located at 2700 S. Central Ave, is a relatively new hotel, being completely renovated right before the 2015 conference. Marshfield is centrally located in Wisconsin, easy to get to being located on Hwy 13 and congestion free. It offers several restaurants including American, Mexican, steak as well as a bakery and several coffee shops. The Wildlife Park and Zoo is open year around, the kids can go snow tubing at Powers Bluff and there is the world famous Figi's Outlet to stock up on your favorite cheeses

and spreads.

### LODGING

The room rates are \$82/night plus tax. This rate will cover from Tuesday through Saturday nights and the room block will be released on February 3. Please call 855-583-2700 and mention Wisconsin Aquaculture Conference. Cancellation is up to 48 hours prior to arrival., after that the penalty is 1 night's lodging plus tax. Check in is 3pm, checkout is noon.

Our conferences are always chocked full of informative talks and offer the opportunity to talk one on one with numerous industry vendors as well as other farmers in the state and region. If there are any talks/subjects you would like to have presented at the conference, please let us know as we are currently selecting our speakers.

### Hooking into a Pond of Trout

by Travis Nyhus, Chronotype staff

#### July 27, 2016-RICE LAKE (WIS) CHRONOTYPE-12B

Fishing usually takes patience and an understanding of baits and fish behavior. When you fish at Timberline Trout Ranch east of Rice Lake, you can throw that all out the window. Here all you need are quick reactions and a child-like joy for fishing. Dennis Penzkover built the first trout pond in 1966 with the understanding that his natural spring would provide optimal conditions to raise trout. He then started Timberline Trout Ranch.

Now there are three ponds that are fed from the spring. The second two fill from the first pond rather than directly the spring.

For now he has anywhere between 400-500 rainbow trout averaging 14-18 inches in length in the first pond. The other two ponds aren't being used for trout at this time as the water is too warm. According to the Fish and Wildlife Service, rainbow trout need clear, clean and cold water.

Timberline Trout Ranch supplies Stout Island Lodge with trout regularly for its menu. Typically anywhere from 40-60 fish are needed per week at the Red Cedar Lake lodge about 7 miles north of Penzkover's trout farm.

When Stout has large events, such as weddings, Penzkover needs help to fill the large order. He relies on a few friends along with his grandson to help reel in fish on summer mornings.

Penzkover gets his trout from Coolidge Spring Trout Ranch in Field. The fish are about 2 years old and 144 inches when he receives them. The trout might only be in the pond for a few weeks before being caught. Timberline usually receives three or *continued*

four truck-loads of trout each year. Each truck carries 350 pounds of trout.

Timberline also provides public fee-fishing for anyone interested in catching their own fish. Anglers pay for what they catch.

Penzkover says that the number of people who come to fish vary widely each summer. He gets a group from the Chicago area every year, but for the most part it's parents and grandparents looking to take kids fishing. Fishing in the ponds provides a great opportunity for young kids who enjoy the excitement of the catch, said Penzkover.

A fishing license and trout stamp aren't needed to fish at Timberline. Penzkover is licensed by the state and provides paperwork detailing the location the fish were caught. Penzkover cleans the fish and helps ice them. All anglers need is a pole, along with a cooler to bring the day's catch home. Reservations are required contact Penzkover at 715-234-8007. Timberline Trout Ranch is located about 8 miles east of Rice Lake at 2963



Dennis Penzkover, left, helps customer, Ambrose Unton, with a trout. Photo credit, Travis Nyhus

# The CREEL

Fall 2016 Volume 49\* \* \* Number 3

WISCONSIN AQUACULTURE ASSOCIATION

www.wisconsinaquaculture.com

## WISCONSIN AQUACULTURE ASSN. COMMITTEES

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.

### OFFICERS, terms expire in 2017

**President:** Peter Fritsch, Rushing Waters Fisheries, Palmyra, WI  
262-495-2089 [PeteF@rushingwaters.net](mailto:PeteF@rushingwaters.net)

**Vice President:** Terry Hogan, Hayward Bait & Tackle, Inc. Hayward, WI  
715-634-2921 [TLH001@netzero.com](mailto:TLH001@netzero.com)

**Chairman of the Board:** Dan Gruendemann, Northside Enterprises, Black Creek, WI  
920-858-5055 [DanGFish@yahoo.com](mailto:DanGFish@yahoo.com)

### STAFF

**Editor:** Cindy Johnson, 1165 Riggles Gap Road, Altoona, PA 16601  
814-515-2570 [info@wisconsinaquaculture.com](mailto:info@wisconsinaquaculture.com)

**Secretary:** Cindy Johnson, 1165 Riggles Gap Road, Altoona, PA 16601  
814-515-2570 [info@wisconsinaquaculture.com](mailto:info@wisconsinaquaculture.com)

**Treasurer:** Kathy Foster, PO Box 175, New London, WI 54961  
920-250-1037 [treas@wisconsinaquaculture.com](mailto:treas@wisconsinaquaculture.com)

### DIRECTORS

#### Term expires 2017:

Jim Augustyn, Augustyn Springs, Antigo, WI  
715-627-4034 [James.Augustyn@gmail.com](mailto:James.Augustyn@gmail.com)

Brandon Pigott, AquaTerra Farms, Bristol, WI  
[bpigott@aquaterrafish.com](mailto:bpigott@aquaterrafish.com)

#### Term expires 2018:

Tim Winkel, Silver Moon Springs, Elton, WI  
715-882-8176 [timwink2@gmail.com](mailto:timwink2@gmail.com)

Ben Gollon, Gollon Bros Wholesale Live Bait, Stevens Point, WI  
715-344-9843, [bengollon@gmail.com](mailto:bengollon@gmail.com)

#### Term expires 2019:

Tim Gollon, Gollon Bait & Fish Farm, Dodgeville, WI  
608-935-2098 [gollon@bugbes.net](mailto:gollon@bugbes.net)

Mike Foster, Wilderness Springs Trout Farm, New London, WI  
920-250-1037 [Wilderness.Springs@gmail.com](mailto:Wilderness.Springs@gmail.com)

### LIAISONS & REPRESENTATIVES

#### Wisconsin Aquaculture Industry Advisory Council (WAIAC)

Contact: Angie Sullivan, Agriculture Program Specialist Senior

#### Voting Board Members

Peter Fritsch, Rushing Waters Fisheries, Inc.

Terry Hogan, Hayward Bait & Tackle, Inc.

Dave Gollon, Gollon Bait and Fish Farm

Dan Gruendemann, Northside Enterprises

Bill West, Blue Iris Fish Farm, LLC

Jim Held, Jim Held Consulting

Ben Gollon, Gollon Bros Wholesale Live Bait

Dr. Robert Smith, Clayton Veterinary Care

#### Committee

##### Business Development

Creation, review and development of business development tools for aquaculture

##### Research & Education

Coordination and review of research, training, educational programming

##### Regulatory Policy

Coordination, review and impact assessment of regulatory actions

##### Budget

#### Members

Peter Fritsch

Dan Gruendemann

Dave Gollon

Terry Hogan

Terry Hogan

Dan Gruendemann

Kathy Foster

Cindy Johnson

---

### North Central Regional Aquaculture Center (NCRAC)

NCRAC Board of Directors

NCRAC Industry Advisory Council

Bill West, Blue Iris Fish Farm LLC., Black Creek, WI

920-730-0684 [blueirisenv@gmail.com](mailto:blueirisenv@gmail.com)

NCRAC Industry Advisory Council

Rebecca Nelson, Nelson & Pade, Inc., PO Box 761, Montello, WI 53949,  
608-297-8708, [nelson@aquaponics.com](mailto:nelson@aquaponics.com)

NCRAC Technical Committee/Research Subcommittee

Dr. Chris Hartleb, 167 CNR Bldg., 800 Reserve St., Stevens Point, WI 54481, 715-346-3228, [chartleb@uwsp.edu](mailto:chartleb@uwsp.edu)

NCRAC Technical Committee/Research Subcommittee

Greg Fischer, UN-SP/Northern Aquaculture Demonstration Facility  
PO Box 165, Bayfield, WI 54814, 715-779-3461, [gfischer@uwsp.edu](mailto:gfischer@uwsp.edu)

NCRAC Technical Committee/Extension Subcommittee

Emma Wiermaa, UW-SP/Norther Aquaculture Demonstration Facility  
PO Box 165, Bayfield, WI 54814, 715-779-3461, [Emma.Wiermaa@uwsp.edu](mailto:Emma.Wiermaa@uwsp.edu)

### US Trout Farmers Association Board Member

Peter Fritsch, Rushing Waters Fisheries, Inc., Palmyra, WI  
262-495-2089 [PeteF@rushingwaters.net](mailto:PeteF@rushingwaters.net)

### National Aquaculture Association Board Member

Bob Robinson, Kasco Marine, Inc., 800 Deere Rd, Prescott, WI 54021  
715-262-4488 [bob.r@kascomarine.com](mailto:bob.r@kascomarine.com)

The Wisconsin Aquaculture Association is a 501(C)(5) organization

# From The Editor

## WAA Updates

### WAA Annual Picnic and Fall and Winter Meetings

Due to a busy fall and focus on the Aquaculture legislation, the board decided to forego the fall picnic and board meeting and opted to just have a call in meeting (minutes are on page 16). Our Winter WAA (10am-noon) and WAIAC (noon-2pm) meetings will be held on Thursday, December 1 at the Schmeckle Reserve, 2419 Northpoint Dr., Stevens Point, WI 54481.

### Aquaculture Legislation

WAA continues to pursue the legislative changes for aquaculture. This has proven to be a challenging project, but the majority of the legislators are in agreement that more fairer and less burdensome regulations are needed for the industry to grow and to acknowledge legislatively that aquaculture is agriculture. Key farmers, along with Axley Law Firm have been meeting with key DNR officials to iron out troublesome language for both sides satisfaction. WAA has used up it's rainy day fund and is asking members, farms, and industry businesses for donations to see this through. A heartfelt **Thank You** from the board to Big Brown Fish Hatchery (PA), Crystal Lake Fisheries (MO), Gollon Bait and Fish Farm, Portfish, LTD, Rushing Waters Fisheries, Silver Moon Springs and Wild Foods, who have donated a total of \$9935 to help with legislative and WAA administrative costs through late summer. However, we don't have the funds to see this through to the legislative vote early next year and are asking for additional donations. These changes

will help nearly every aquaculture farm in the state. After the elections, we will have an update in the next Creel on where we stand in this process. In the meantime, we ask that you consider making a donation to WAA when you send in your dues renewal. There is a renewal form on page 19, or dues notices will be send out later in November.

### Aquaculture Day

We had 11 farms sign up for Aquaculture Day (see photos on page 15). Visitor numbers varied depending on the farm and their location. Farms that had the most visitors indicated that they promoted the event in advance through facebook, their website, flyers at their farm, contacting their local chambers/visitor bureaus and making an effort to get media out to their farm. This continues to be a good promotion event for the industry as numerous legislators make a point of visiting farms in their districts either before, during or after Aquaculture Day. It is one-on-one discussions with our legislators that helps the industry with issues, and particularly now, with the legislation WAA is working on.

### Board Elections

2 Board Directors positions will be open for nominations in March. These are 3 year terms, most communication is via email, with 3 board meetings each year. If you are interested in running for a director position, please contact on of the officers or board members.

cindy

## TABLE OF CONTENTS

2017 Conference Returns to Marshfield	1
Hoking into a Pond of Trout - Travis Nyhus, Chronotype staff	1
From the Editor - WAA Updates	3
UWSP-NADF Update - Greg Fischer, UWSP/NADF Facility Operation Manager	4
New Paper Examines Impact of Environmental Regulations on Aquaculture Growth	4
201 North Central Aquaculture Conference Presentations Available Online	5
NAA Contributes to USDA Antimicrobial Resistance Research Priorities	6
Xylem to Acquire Sensus	6
NAA, USAS, & NCRAC Aquaculture Webinars Available 24/7	7
Food Processing Guide Available	7
Research Updates - Stuttgart Fish Tales, Summer 2016	7
Aquaculture is Driving Global Per Capita Seafood Consumption	9
Florida AgriTourism Law	9
Nelson & Pade, Inc. Featured in "Growing Wisconsin" Magazine	9
Bits & Pieces	9
Wisconsin Livestock Premises Consortium	10
DATCP Updates Website	12
Cook's Corner - Trout with Charred Scallion Vinaigrette	14

Aquaculture Day Photos	15
WAA Fall Board Meeting Minutes	16
WAIAC Fall Board Meeting Minutes	17
Feeding 9 billion in 2050 - Putting Fish Back on the Menu	18
Calendar of Events	18
Home Made Automatic Feeder Pricing	18

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.

### CREEL ADVERTISING

*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



## UWSP-NADF Update

By Greg Fischer

UW-SP/NADF Facilities Operations  
Manager



I recently had the opportunity to attend the 11<sup>th</sup> International Conference on Recirculating Aquaculture (ICRA) and Aquaculture Innovation Workshop (AIW) in Roanoke, Virginia. This is a long standing conference that only convenes every other year and give attendees a chance to learn about some of the latest and greatest things that are happening with recirculating aquaculture technology from around the world. The cool thing this year was joining the ICRA with the AIW. This brought together a ton of talented and experienced people from around the world that are actual-

ly implementing new RAS technology and growing fish. Over 250 interested aquaculture minded people attended this year's conference which was sponsored by The Conservation Fund, Freshwater Institute and Virginia Tech University with support from many industry equipment suppliers as well.

Attendees had the opportunity to attend presentations on some very interesting topics such as:

- Aquaponics
- Advances in Animal Nutrition in RAS
- RAS Production
- Aquaculture Innovations
- Health and Disease
- Biofloc and Shrimp
- Biological Control and Biofiltration
- RAS Sludge Management
- Pre and Probiotics
- Salmonid Diets

Specific highlights included discussion about several new and upcoming facilities that are successfully rearing from 100 up to 5,000 Metric Tons of salmon yearly for food fish production in land based sustainable recirculation systems. These large systems appear to be working well and more are planned to be built in North America in the coming years.

There were many interesting presentations on new and innovative systems as well such as; Critical Design Criteria for Engineering Decoupled Aquaponic Production Systems by Ryan Chatterton. Ryan gave a good overview on the benefits of utilizing a decoupled system for aquaculture and aquaponics. Katherin Steinberg, gave a talk on the effects of carbon dioxide on metabolism and growth in adult pikeperch (*Sander lucioperca*) which may prove helpful as we move forward with additional walleye rearing in RAS systems. There were several talks on utilizing peracetic acid as an alternative treatment against fish pathogens for multiple fish species. This may prove very helpful as we are constantly looking for new and improved ways to deal with fish health in Wisconsin. Conferences and workshop like this bring together many experts and interested aquaculture professionals to network and *continued*

## NADF Update continued

build relationships that will benefit all aquaculture into the future. We attend these conferences to learn about new and innovative ideas that can be shared with Wisconsin fish farmers to increase their productivity and better their operations. I highly recommend attending one of these conferences now and then to increase your knowledge and understanding of what is happening in the world of aquaculture. Information regarding the conference will be provided on our webpage. Please let us know if you have some specific questions regarding this conference that we can help with.

Thanks for your continued interest in Wisconsin Aquaculture!

### Sign up for NADF's Newsletter

I wanted to make sure you are aware of the quarterly UWSP NADF newsletter we send out. The newsletters discuss NADF projects, events, articles and news on sustainable aquaculture.

Anyone can subscribe off the facility webpage or the direct link here: <http://us9.campaign-archive1.com/home/?u=a599f8896e79274937d604a22&id=b4eb3c637f>

A list of all the newsletters are off our homepage, link here: <http://www.uwsp.edu/cols-ap/nadf/Pages/Quarterly-Newsletter-.aspx> of all the newsletters are off our homepage, link here: <http://www.uwsp.edu/cols-ap/nadf/Pages/Quarterly-Newsletter-.aspx>

## New Paper Examines Impact of Environmental Regulations on Aquaculture Growth

The authors of a new paper entitled, "Stringency of Environmental Regulation and Aquaculture Growth: A Cross Country Analysis," report that during the last three decades aquaculture has been the fastest growing animal-food-producing sector in the world; contributing half of the seafood supply. However, they note there has been significant growth disparity among aquaculture-producing countries. The reasons why some countries have achieved remarkable growth in aquaculture while others have stagnated or even declined was the question they examined.

In the paper, the authors investigated whether environmental regulations have an impact on aquaculture growth. Using a cross-country regression analysis, they showed that stringent environmental regulations were negatively related to aquaculture growth, whereas Gross Domestic Product growth had a positive effect. Countries often face a difficult balancing act between growth and environmental considerations when devising regulations. Their empirical results suggest that stricter environmental regulations in developed countries have contributed to lower growth rates and that these countries are falling behind emerging and developing economies that have more lenient environmental regulations.

The paper appeared in the journal *Aquaculture Economics and Management*, Vol. 20, Issue 2. It is available as an Editor's Choice, free access paper for the next month. To read or download the publication, please visit: <http://www.tandfonline.com/doi/full/10.1080/13657305.2016.1156191>.

**MAKE PLANS TO ATTEND THE  
2017 WISCONSIN AQUACULTURE CONFERENCE**

## 2016 North Central Aquaculture Conference Presentations Available Online

The following agenda and presentations were from the 2016 North Central Aquaculture Conference held in Milwaukee, Wisconsin on March 12 & 13, 2016. The event was a collaboration between the North Central Regional Aquaculture Center and the Wisconsin Aquaculture Association.

### Ask the Expert

Aquatic Plant Management, Bill Lynch  
Aeration, Bob Robinson

### Business Planning

Getting Started in Aquaculture, Jim Held  
Agri-tourism and Value Added Aquaculture Products, Peter Fritsch  
Live Haul Aquaculture Marketing and Advantages of Collective Sales, Paul Hitchens  
Aquaculture Economics, Kwamena Quagrainie

### Aquaculture BMP's

Water Quality Management, Joe Morris  
Fish Health: What you Need to Know, Nicholas Phelps  
Quality Feed, Quality Fish: BMP for Feeds and Feeding, Paul Brown

### Farmer/Culturist Real World Experiences

Coldwater Production at Wilderness Springs, Mike Foster  
SARE Grants, Bill West  
Affordable Application of Pond-Side Tanks to Increase Production of Coolwater Species, Bill West

*Continued*

### Seafood Tech: Source to Table

U.S. Seafood Industry: Fisheries/Aquaculture Situation & Outlook, John Ewart & Doris Hicks  
Seafood Safety, Processing and Regulation, Doris Hicks  
Seafood in the Diet: Benefits and Risk, Doris Hicks  
Major Seafood Issues in Review: Analysis, Communication Skills and Methods, John Ewart & Doris Hicks

### Pond Culture and Management

Managing Ponds for Sportfish Stocking, Joe Morris  
Aquatic Plant Management in Culture Ponds, Bill Lynch  
Stocking and Harvesting Fish in Ponds, Bob Rode  
Coolwater Fry Culture in Ponds, Chris Hartleb

### Aquaponics

Aquaponics Innovation Center, Chris Hartleb  
Aquaponic System Design and Management, Allen Pattillo  
Aquaponics in Cold Flowing Water System, Ken Semmens  
Fish Management in Aquaponics, Bill Lynch

### Coolwater Species

Iowa DNR Advanced Fingerling Walleye Culture, Alan Johnson  
Ways to Improve Sunfish/LMB Production and Sales, Jim Wetzel  
Commercialization of Walleye and Hybrid Walleye for Aquaculture, Greg Fischer

### Non-coolwater Species

Arctic Char Culture, Greg Fischer  
Marine Shrimp Culture, Bob Rode  
Michigan Netpen Experience, Chris Weeks

## FOR SALE

Fish Farm/Aquaculture

### A Current Profitable Business Opportunity In Central Wisconsin

#### *Includes:*

138 acres  
21 fish ponds of various sizes & depths  
4 drilled wells  
2 large commercial buildings  
Retail bait shop building  
All trucks & equipment  
All customers & delivery routes

**\$599,000.00**

MLS # 1300310

Call Ward Wolff  
First Weber Realtors  
Stevens Point, WI



Hugo W. and Ruby J. Kettula  
Living Trust

## SEVEN PINES FISHERY, INC.



WHOLESALE  
SERVING THE MIDWEST

**Rainbow and Brown  
Trout**

**Fry Now Available  
Fingerling to  
Catchable**

For Information

**RICHARD & DAVID KETTULA**

1029 Clam Falls Drive, Frederic, WI 54837-4705

Phone 715-653-2271

Fax 715-653-4129

sevenpinesfishery@hotmail.com

## NAA Contributes to USDA Antimicrobial Resistance Research Priorities

The National Aquaculture Association (NAA) participated in a U.S. Department of Agriculture (USDA) hosted animal livestock webinar whose goal was to develop research priorities for the Agricultural Research Service (ARS) and National Institute of Food and Agriculture (NIFA). The NAA submitted these comments prior to the webinar on behalf of U.S. aquaculture:

"Domestic aquaculture is composed of diverse finfish and shellfish species. There are only three Food and Drug Administration (FDA) approved antibiotics available and some species diseases do not have any antibiotic approvals. The lack of antibiotic diversity is a problem that helps foster antimicrobial resistance. There are few licensed vaccines and administration of vaccines to aquatic animals is difficult. Greater emphasis needs to be placed towards vaccinology. The domestic aquaculture industry would benefit immensely with the development of effective alternative aquatic animal health measures. Great emphasis needs to be placed on implementation of the Commercial Aquaculture Health Program Standards (CAHPS) to broaden application of site specific health management programs and biosecurity measures. Robust vector (e.g., bird) control measures should be developed and permitted."

The webinar was attended by 89 representatives for U.S. animal agriculture. In response to comments made during the webinar, the NAA submitted additional comments requesting federal funding to support research and testing by public-private partnerships to gain drug and chemical approval, development of drug approval funding opportunities specific to aquaculture and other sectors of animal agriculture that are not large enough to justify private investment in drug approval, research and testing of alternatives to *continued*

## Antimicrobial Resistance Research, continued

drugs and chemicals, and the control of vectors (birds, fish, invertebrates, reptiles or mammals) that can enter the farming environment and inadvertently introduce pathogens or parasites.

The next steps are that USDA will prepare a final report to appear in 2017 for the purpose of informing program priorities, grant announcements and internal agency research efforts. A webinar summary and NAA's comments are available by contacting the NAA office at 850-216-2400 or [naa@thenaa.net](mailto:naa@thenaa.net).

## Xylem to Acquire Sensus

Sensus, owned by investment funds affiliated with The Jordan Company and GS Capital Partners 2000, is a leading provider of smart meters, network technologies, and advanced data analytics services for the water, electric and gas industries. It has more than 80 million metering devices installed globally.

"With Sensus, we will acquire a strategically valuable asset that will accelerate our ability to bring systems intelligence solutions to customers across the water and energy industries, establish a foundation for future growth and create significant shareholder value," said Patrick Decker, Xylem President and Chief Executive Officer. "This will be an important milestone in our strategy to move Xylem's portfolio of solutions up the technology curve. The combination of Xylem's world-class brands and products with Sensus' leading-edge smart technologies will create a differentiated offering that will better meet our customers' evolving needs, including greater energy efficiency, water conservation, and improved life-cycle costs.

YSI is a trademark of Xylem

**YSI**  
a xylem brand

they  
**Thrive**  
with **YSI**

YSI offers **Optical Dissolved Oxygen (ODO)** sensing with the easy-to-use handheld, **ProODO**. No membrane changes, no warm-up time, no stirring, low maintenance and fewer calibrations. Just one more reason your livestock will thrive with YSI.

For more information about YSI products, contact Darrin Honious at [dhonious@ysi.com](mailto:dhonious@ysi.com) or (937) 767-7241 ext. 246.

**YSI ProODO**

**YSI.com/proODO**  
**+1 937 767 7241**

YSI Incorporated is a brand of Xylem, whose 12,900 employees are addressing the most complex issues in the global market.  
©2015 Xylem Inc.

**YSI AQUACULTURE**  
PROVEN. TRUSTED.

**xylem**  
Let's Solve Water

## NAA, USAS and NCRAC Aquaculture Webinars Available 24/7

The U.S. Aquaculture Society (USAS), North Central Regional Aquaculture Center (NCRAC) and National Aquaculture Association (NAA) are producing a series of webinars during 2016 that bring together current and timely aquaculture topics and knowledgeable speakers. A total of 12 webinars are planned and seven have been completed. Recordings of those webinars are posted to the USAS, NCRAC and NAA websites. To access these webinars, visit <http://thenaa.net> via your desktop computer or mobile device and select "Webinars" from the menu.

The USAS, NCRAC and NAA webinar series topics include: Aquaponics; Fish of the Order Siluriformes: Mandatory Inspection and Labeling Requirements; Biosecurity; Recreational Fish Pond Management; AIS HACCP Approach for Aquaculture and Baitfish Operations

The NAA webinar page also includes presentations from prior years and the topic list includes:

Is Aquaculture Sustainable?; Aquaculture Certificate Programs; Introduction to Aquaculture; Growing Your Aquaculture Business; Cash Flow-based Planning; and Transitioning

Explore the NAA website for downloadable publications, Frequently Asked Questions (FAQs), Kids Corner, recipes, video interviews describing aquaculture sustainability and the value and benefits of seafood to human health, and a wealth of additional information. If there is something that is missing, please contact the NAA office at 850-216-2400 or [naa@thenaa.net](mailto:naa@thenaa.net).

## Food Processing Guide Available

### Handbook available from the University of Wisconsin-Extension

Published on August 15th, 2016 OAKDALE, Wis. — Entrepreneurs thinking about starting or scaling up a food processing business can find a way to make their dreams a reality with the help of the newly released Wisconsin Food Processing Guide: A Handbook for Entrepreneurs and Managers, available from the University of Wisconsin-Extension.

Authors Jenifer A. Buckley and Elena M. Byrne worked with UW-Extension, the Dept. of Agriculture, Trade and Consumer Protection and FaB Wisconsin to identify the latest research, regulatory information and sources of help for people interested in starting and growing a food and beverage business. Their goal is to help spur innovation in Wisconsin's food processing sector.

The Wisconsin Food Processing Guide covers a wide array of topics, such as regulations and licensing, selecting a food processing facility, developing products, buying equipment, labeling and packaging, and addressing special food categories such as gluten-free and organic. It answers entrepreneurs' questions about marketing, as well as insurance and liability issues, and concludes with potential exit strategies when the time comes to close or sell the business.

The Wisconsin Food Processing Guide is available from the UW-Extension Learning Store.

Contact: Erin Peot, [erin.peot@ces.uwex.edu](mailto:erin.peot@ces.uwex.edu), 608-890-4606

— Wisconsin Agricultural Tourism Association

- See more at: <https://www.morningagclips.com/food-processing-guide-available/#sthash.3C10krsV.dpuf>

## YOUR PARTNER IN A CHANGING WORLD

Pentair Aquatic Eco-Systems offers solutions and expertise to improve growing conditions in any environment from recirculating aquaculture systems to improving water conditions in pens. Pentair AES can help you improve results in any part of the growing cycle.

Pentair AES employs experts in coldwater aquaculture—pioneers in the industry who earned their knowledge by running operations of their own—to provide the best possible solutions for cold-water aquaculture facilities, from hatcheries to grow-out and everything in between.

From new builds, retrofits or even troubleshooting, Pentair AES has expertise and solutions to help your cold-water operation.



### AQUATIC ECO-SYSTEMS™

Online Orders: [PentairAES.com](http://PentairAES.com)

Phone Orders and Tech Advice: 877.347.4788

© 2014 Pentair Aquatic Eco-Systems, Inc. All Rights Reserved.

From Stuttgart Fish Tales, Summer 2016

## Research Updates

### BASS. REAL FOOD, FOR REAL PEOPLE!

USDA-ARS researchers at the Stuttgart National Aquaculture Research Center feel that white bass (WB) may be a valuable domestic food-fish, yet are under-represented in U.S. aquaculture. There is extremely limited data on nutritional requirements of this fish, and on use of different culture methods. To investigate whether white bass can be grown in cages with acceptable growth rates and high percentage survival, a study was started in May 2016 to determine the effects of different stocking densities on growth, body composition, and fillet proximate composition.

### NEW RESEARCH: DO YOU FIND ME ATTRACTIVE?

Studies have begun at the USDA-ARS Stuttgart National Aquaculture Research Center to evaluate the efficacy of feeding attractants, i.e., palatability enhancers or "palatants", that might be used to get fish to consume a prepared diet more readily. Not only is marine fish meal a popular ingredient in aquaculture diets but is it highly nutritious for fish and shrimp, and it is tasty. However, the stocks of marine fish used to make fish meal have been static for the past twenty year, not decreasing or increasing. But as aquaculture has expanded in the world, farmers need to feed their fish and shrimp which places a heavy demand on the use of marine fish meal, which has resulted in a huge increase in price. As feed mills and producers want to use the most nutritious, but economical diet possible, diet formulations have reduced fish meal dramatically *continued on pg 8*

in the past 2-3 decades as more sustainable animal (poultry by-product meal) and plant-protein (soybean meal, canola meal) ingredients have been added to aquaculture diets in place of fish meal. However, poor feed intake becomes a major bottleneck in the production of some fish (especially carnivorous fish) and slows producer acceptance of plant-based feeds that may be more sustainable. Some of the compounds being evaluated are: crawfish oil, garlic, liver by-products, molasses, poultry fat, ProOmega 55™, and shrimp oil.

### **USE OF DISILLER'S DRIED GRAINS WITH SOLUBLES (DDGS) AS REPLACEMENT FOR FISH MEAL IN TILAPIA DIETS**

Tilapia has become the most-produced food-fish in the world for the global marketplace in 2015. There are several important reasons for this dramatic increase in production, one being its acceptance of diets containing plant-protein ingredients. However, as production has increased, prices paid to producers have decreased. As feed costs represent approximately 35-55% of variable costs to tilapia producers, formulating nutritious, but less expensive diets may assist producers in maintaining profitability. Historically, distiller's dried grains with solubles (DDGS), was by-product of the distillery industry. Increased ethanol production has subsequently led to increased production of DDGS, and production in the U.S. has almost quadrupled since 2005.

With the abundance of DDGS in the U.S., it has been proposed as a protein source for use in aquaculture diets due its relative low cost per unit protein basis, and absence of anti-nutritional factors found in other plant-based ingredients. USDA-ARS scientists at *continued*

SNARC demonstrated that a substantial amount of the fish meal in typical tilapia fry diets can be replaced with DDGS, when combined with poultry by-product meal and supplemental amino acids (methionine and lysine).

### **STOCKING DENSITY CAN REDUCE CANNIBALISM IN HYBRID STRIPED BASS**

The outdoor biofloc technology production (BFT) system is a novel, intensive production system in which high stocking and feeding rates are possible, and fish yields can be obtained that are many times greater than yields from traditional earthen pond culture. Such yields are possible because unassimilated feed nitrogen, which is excreted by fish as ammonia, is utilized by the phytoplankton and bacteria present in the system. Continuous aeration with diffused air supplies the required dissolved oxygen and maintains the phytoplankton and bacteria in constant suspension in the water column. Farmers in the U.S. have adopted the direct-stock production method for hybrid striped bass (HSB) that relies on stocking a 0.5-1.5-ounce advanced fingerling for which production practices have not been optimized. Scientists at SNARC completed in October a range-finding experiment to quantify the relationship between fingerling hybrid striped bass growth and yield, and stocking rate in the outdoor BFT production system. Survival was high across stocking rates, averaging 80%. A certain percentage of the HSB fingerling population gains an early growth advantage and becomes cannibalistic towards conspecifics. "Cannibals" were present, but decreased linearly from 33% to 6% of the population as stocking rate increased. Target size fish at all stocking rates averaged 0.5 ounce each. This study was the first to demonstrate that hybrid striped bass can be grown successfully in the biofloc technology production system. Increasing the stocking rate further to eliminate the presence of



**THE WORLD'S  
LEADER IN TROUT  
GENETICS AND THE  
WORLD'S LEADING  
SUPPLIER OF EYED  
TROUT EGGS**

# Troutlodge



**A Hendrix Genetics Partner**

*Since 1945 -- 70 years of success!*

**ALL-FEMALE EGGS | TRIPLOID EGGS**

**Ask about:**

**Coho and Atlantic salmon eggs, Arctic char eggs,  
Albino eggs, Troutlodge Natural Advantage eggs,  
Flavobacter-resistant eggs**

[trout@troutlodge.com](mailto:trout@troutlodge.com)

T +1 (253) 863-0446 | F +1 (253) 863-4715

Toll free +1 (800) 838-7688

**[www.troutlodge.com](http://www.troutlodge.com)**



## Aquaculture is Driving Global Per Capita Seafood Consumption

Global per capita fish consumption has risen to above 20 kilograms a year for the first time, thanks to stronger aquaculture supply and firm demand, record hauls for some key species and reduced waste, according to a new United Nations, Food and Agriculture Organization, (UN FAO) report entitled, "The State of World Fisheries and Aquaculture." The latest edition of the UN agency's report says that almost a third of commercial fish stocks are now fished at biologically unsustainable levels, triple the level of 1974. Global aquaculture production rose to 73.8 million tonnes in 2014, a third of which comprised molluscs, crustaceans and other non-fish animals. Importantly in terms of both global food security and environmental sustainability, about half of the world's aquaculture production of animals - often shellfish and carp - and plants - including seaweeds and microalgae - came from non-fed species. Aquaculture's strengths and challenges are also influencing what fish end up on our plates. The report shows that, measured as a share of world trade in value terms, salmon and trout are now the largest single commodity, an honor that for decades belonged to shrimp.

To access the complete report, click on: <http://www.fao.org/3/a-i5555e.pdf>.

## From WATA Florida AgriTourism Law

*As Wisconsin moves forward in attempting to develop legislation for agricultural commerce that covers event barns, keeps our members businesses classified as agriculture and not commercial, the state of Florida has been working to develop their own legislation. The article below outlines the changes Florida has made.*

Three years after passing a law protecting farms who participate in agritourism, the state of Florida has passed another version that clarifies questions that arose, University of Florida/Institute Of Food And Agricultural Sciences Extension reports.

Florida has a lot of agritourism: 105 million visitors spending more than \$85 billion in 2015, according to VISIT Florida. The number of Florida farms offering recreational experiences more than doubled from 281 in 2007 to 724 in 2012, according to USDA Census of Agriculture data.

So when the 2013 Agritourism Law was passed, farm marketers were relieved. It changed in the Florida Statutes to reduce liability for agritourism farms, so long as a warning sign is posted indicating participation in agritourism activities involves inherent risks, and notifying participants that by choosing to participate they are accepting these risks. The change didn't protect gross negligence, but provided some assurance for farms on the fence about opening their farm to the public.

Included in those changes was language to prevent local authorities from imposing regulations to prevent agricultural operations from engaging in agritourism. After the ink dried on the law, however, many questions arose. Several operations found themselves in difficult circumstances, as local authorities grappled with the new law, which lacked a reference to enforcement of existing local regulations. *continued*



I had to call in sick - my arm is in a cast.

## Florida Agritourism Law, continued

The definition of agritourism itself was a point of confusion, especially where the on-farm activities were not clearly related to agriculture. Rustic on-farm weddings have become a hot trend but were not specifically cited as an agritourism activity.

To learn more click here to read the entire article.

<http://www.growingproduce.com/farm-marketing/florida-clarifies-its-agritourism-law/>

## Nelson and Pade, Inc.® Featured in Growing Wisconsin

The 2017 publication of Growing Wisconsin is out and features a four-page spread on Nelson and Pade, Inc.® and the research and development that is helping to grow Wisconsin's aquaculture industry. Growing Wisconsin is a magazine that connects consumers to farms, food and forestry, and distributed by the Wisconsin Department of Agriculture, Trade and Consumer Protection on an annual basis.

Assistant Greenhouse Manager, Tim Dobbins, and Event Coordinator, Jannel Dunn, are featured within the article, along with statements from co-founder Rebecca Nelson.

*"In Wisconsin, there is a need for fresh, nutritious food, and both new and established Aquaponics farms are helping to fill this demand."*-Rebecca Nelson

Read 'Water Works' article here: <http://www.farmflavor.com/wisconsin/growing-wisconsin-2017/>

## BITS and PIECES

### A New Film Examines "Why Aren't We Growing Our Own Fish?"

That's the question posed by "The Working Waterfront," a new film which aims to educate consumers on the current status of aquaculture in the United States. The film makers visit farms raising catfish in Alabama, salmon in Washington state, and oysters and mussels in

Maine. The farmers talk about their commitment to environmental responsibility, economic benefits to their communities, and producing locally grown, high quality products for their customers. They also discuss challenges to growing a robust U.S.-based aquaculture community. Over 90% of the seafood Americans eat is imported from overseas, and half of that amount is from aquaculture. The U.S. has ample coastlines, infrastructure, and research and development capability to produce all of the seafood the country demands in an environmentally sound manner. Lack of consistent, coordinated permitting processes and a lingering outdated perception of aquaculture are cited as obstacles to increasing the supply of locally grown fish and seafood.

The video was funded by the Soy Aquaculture Alliance and the United Soybean Board to educate the public about the advances made by U.S. aquaculture. To view "The Working Waterfront" click on:

*Continued on page 10*

<https://www.youtube.com/watch?v=aGgtS4v9WBM>

### New SSfW Website in the Works

*If you are not a member, consider joining., This program works to promote Wisconsin products and offers it's members many different marketing opportunities.*

SSfW recently purchased a new membership management and website development software program that Something Special from Wisconsin™ will be transitioning to late summer. This will provide you as a member a highly robust system with numerous opportunities to promote and market your business. Things like posting your newsletters and job openings, participate in discussion forums, upload multiple photos/graphics and more. With this we will also have a brand new Something Special from Wisconsin™ public website. Both of these have been on my “wish list” for a while now and I’m beyond thrilled to say they can be checked off the list! Easily become a membership today online at – <http://ssfwmembers.wi.gov>. Something Special from Wisconsin is in the process of creating a new member database and building the new Something Special from Wisconsin™ website. MemberZone is the name of the software program and SSfW members will be seeing this name on a regular basis going forward. Everything in place should be in place and live no later September, allowing members to be able to completely manage their membership profile page, 24/7 and take advantage of all the new system has to offer.

Questions? Contact Something Special from Wisconsin™ at (608) 224-5124 or email [lois.federman@wi.gov](mailto:lois.federman@wi.gov)

From CTSA Regional enotes

### AquaClip ~ UW professor is digitizing every fish species in the world

*by Aquafeed.com staff. July 27, 2016.*

Nearly 25,000 species of fish live on our planet, and a University of Washington professor wants to scan and digitize them all. That means each species will soon have a high-resolution, 3-D visual replica online, available to all and downloadable for free.

<http://www.aquafeed.com/news/headline-news-article/6771/UW-professor-is-digitizing-every-fish-species-in-the-world/>

## Wisconsin Livestock Premises Consortium

WLIC was established as a statewide initiative to develop a livestock identification and information system to protect animal health and market access.

### Animal ID General Information

As a resource in implementing a national disease traceability system, following nationally established standards, the Wisconsin Livestock Identification Consortium (WLIC) is working to integrate a system throughout all segments of the Wisconsin livestock industry. Registering more premises than any other state, Wisconsin livestock producers have demonstrated understanding of the need for an animal disease traceability system. Building on the success of mandatory premises registration, WLIC will continue to promote and implement the next steps: voluntary animal identification and *continued*

voluntary animal tracing. By participating in voluntary animal identification, livestock owners and producers will help manage animal disease outbreaks, should they occur.

### The program:

With a premises registration system already in place, the next step is to record individual animal identification and animal movements.

To achieve effective disease traceability, only certain animals need a unique identifier.

Producers and animal health officials recommend livestock that do not leave the farm or those raised for home or local consumption would not need a unique identifier for disease traceability purposes. Partnering with the Department of Agriculture, Trade and Consumer Protection (DATCP) and industry organizations, WLIC has created a voluntary program to implement animal identification and animal tracing.

The U.S. Department of Agriculture (USDA) has released official Animal Identification Numbers (AIN). Multiple companies manufacture and distribute approved animal identification devices for incorporation into current livestock management practices.

Producers can decide which identification devices fit the needs of their operation and the best time to apply the devices to their animals (ID at birth, time of vaccination, or at the time the animal leaves the operation).

### Benefits:

The livestock industry will be closer to the goal of 48-hour trace back in the event of an animal disease outbreak.

The effort will help protect the animal industry and consumer confidence.

Animal identification provides the knowledge of where an animal has been throughout its life and which animals were commingled. This information will assist animal health officials in locating and containing the infected and exposed animals in the event of animal disease outbreaks.

Tracing animals through the system will reduce the economic and emotional impact associated with disease outbreaks.

### WHO

The Wisconsin Livestock Premises Registration Act requires anyone who keeps, houses, or co-mingles livestock to register their premises.

Premises that are not currently licensed by the DATCP are *required to register*.



### HOW

Registrants may call 1-888-808-1910 to request a form to be sent via the Postal Service. Or print the Premises Registration PDF and mail to WLIC by [clicking here](#). To print the [instructions form](#) [click here](#).

We can update your information over the phone, please call *continued on page 12*

[Ling Na](#) [Baby Boomers 1946-1964](#)

# Best Aeration Products, Best Aeration Expertise

Properly aerating your pond or lake for aquaculture purposes can be a science, and nobody can beat Kasco's scientific knowledge and depth of experience. With nearly 50 years in business and more than 90 years of combined industry experience, our company will deliver the results you need. Couple that expertise with our complete line of aeration products including **surface aerators, diffused aeration, aerating/decorative fountains, circulators, de-icers, beneficial bacteria and dye** - all designed and built to the highest standards - and you have the best source for water quality solutions possible. Put the industry's best team and best products to work for you. Contact us today about your aquaculture aeration needs.

## Meet our sales management staff:



### **Bob Robinson** - *Director of Sales & Marketing - Fisheries Biologist*

- Started at Kasco in 1999
- Over 30 years of industry experience, with expertise in water quality, aeration & aquaculture applications
- Worked for Indiana Dept. of Natural Resources, Bureau of Land Management in Colorado, State of Wisconsin, Aquatic Eco-Systems & Purina-Rangen Fish Feeds
- Holds Bachelor of Science degrees in water resource management - fisheries & biology from UW-Stevens Point



### **Joe Holz** - *Outside & International Sales*

- Started at Kasco in 2002 as inside sales & customer service support
- Helps customers in a wide area of uses & unique applications including aeration needs in backyard ponds, intensive aquaculture, golf & irrigation applications, water treatment & processing, mining, & lake front property management
- Worked at Rushing Waters Fisheries in Palmyra, Wisconsin in fish rearing, fish health, culling, sorting & processing
- Holds Bachelor of Science degrees in environmental science & geography from Carroll University



### **Andy Gillis** - *Outside Sales*

- Started at Kasco in 2005
- Currently the product manager for de-icers & circulators
- Previous owner of an aquatic supply business where he was the aquaculture consultant & helped customers with aeration projects in ponds, lakes & open water
- Attended University of Maryland & Johns Hopkins University



### **Ken Rust** - *Outside Sales*

- Started at Kasco in 2009, but previously sold Kasco products for more than 20 years working in the industry
- Currently the product manager for Kasco's Robust-Aire diffused aeration system
- Helps customers design proper aeration layouts for ponds & lakes to improve & protect the health of their ponds
- Holds a Master of Science degree in Aquaculture & Fisheries from LSU



## Common Aquaculture Aeration Applications Include:

**Raceways & Ponds:** Increase stocking density or feed rate to shortened time to harvest

**Tanks:** Obtain densities of up to 1/2 gallon of H<sub>2</sub>O. Vent CO<sub>2</sub>

**Emergency Aeration:** 3.0 lbs. / O<sub>2</sub> / hp / hr. 12 volt option available

Email: [sales@kascomarine.com](mailto:sales@kascomarine.com)

Web: [www.kascomarine.com](http://www.kascomarine.com)

Phone: 715-262-4488



1-888-808-1910 and provide us with the information that needs to be updated.

**In case you previously registered online, and you forgot your user name and password:**

Email [helpdesk@wiid.org](mailto:helpdesk@wiid.org) and include your account number or premises number and name.

It is important to keep your information accurate to ensure animal health officials have the most up to date information in the event of an animal disease outbreak.

**Current Renewal Process**

Premises that have last renewed for the 2010 year will be receiving a renewal notice from DATCP during October and November 2012.

Once a premises registration has been renewed, a confirmation letter with a premises ID card will be mailed to registrants. DATCP reminds livestock owners to keep their cards for future reference. Some organizations or events, such as fairs, may ask for a premises ID number in order to participate in their activities.

Registering a livestock premises doesn't obligate the registrant to participate in animal ID or animal tracing.

**WHEN**

If an animal species is added or sold, or if there is a change of ownership of the property, call WLIC at 1-888-808-1910 to change the information, or use the website.

**WHY**

Registering your premises gives animal health officials a valuable tool when responding to animal disease outbreaks. It also allows livestock owners to stay informed about disease threats to their *continued*

animals.

A state system with proper trace back and trace forward capabilities provides timely response to minimize the economic impact in the event of an animal disease outbreak. Our livestock industry is vitally important to the economic well being of Wisconsin, which makes their safety a major issue for the state.

**DATCP Updates Website**

DATCP is pleased to announce that the Department of Agriculture, Trade and Consumer Protection's redesigned website is now live. We are excited to improve the experience for our customers visiting our website.

You will notice the website now has three-tier navigation to improve its organization. To allow you to do your work wherever you are, the website is built to be mobile responsive on your devices. Links on the homepage allow farmers, consumers and businesses to easily find our most requested content. Use our search to find the information you need to accomplish your goals.

While the home page address, [datcp.wisconsin.gov](http://datcp.wisconsin.gov), is the same, there have been changes to the internal page links. Please take the time to update the bookmarks to your favorite pages.

We encourage you to share this information with your contacts. While DATCP has many diverse responsibilities, we are one agency with one unified website. We hope you find the information to be relevant to your work.

If you have any questions or feedback, please contact Ashley Andre at (608) 224-5002 or [ashley.andre@wisconsin.gov](mailto:ashley.andre@wisconsin.gov). Thank you for visiting [datcp.wisconsin.gov](http://datcp.wisconsin.gov)!



**GROW BIG FISH**

For more information on AquaMax® Premium Fish Food go to [www.PurinaMills.com/fish-feed](http://www.PurinaMills.com/fish-feed)

Purina® AquaMax® fish foods are 100% nutritionally complete diets, formulated for optimum nutrient delivery, and designed to feed a variety of species.

**AQUAMAX® STARTER DIETS**

A highly digestible, high energy, nutrient-dense diet excellent for all starter and fingerling species.



**AQUAMAX® POND FISH DIETS**

Diets that are formulated for omnivorous fish that don't demand the higher protein levels or nutrient densities required by carnivores.

**AQUAMAX® SPORT FISH DIETS**

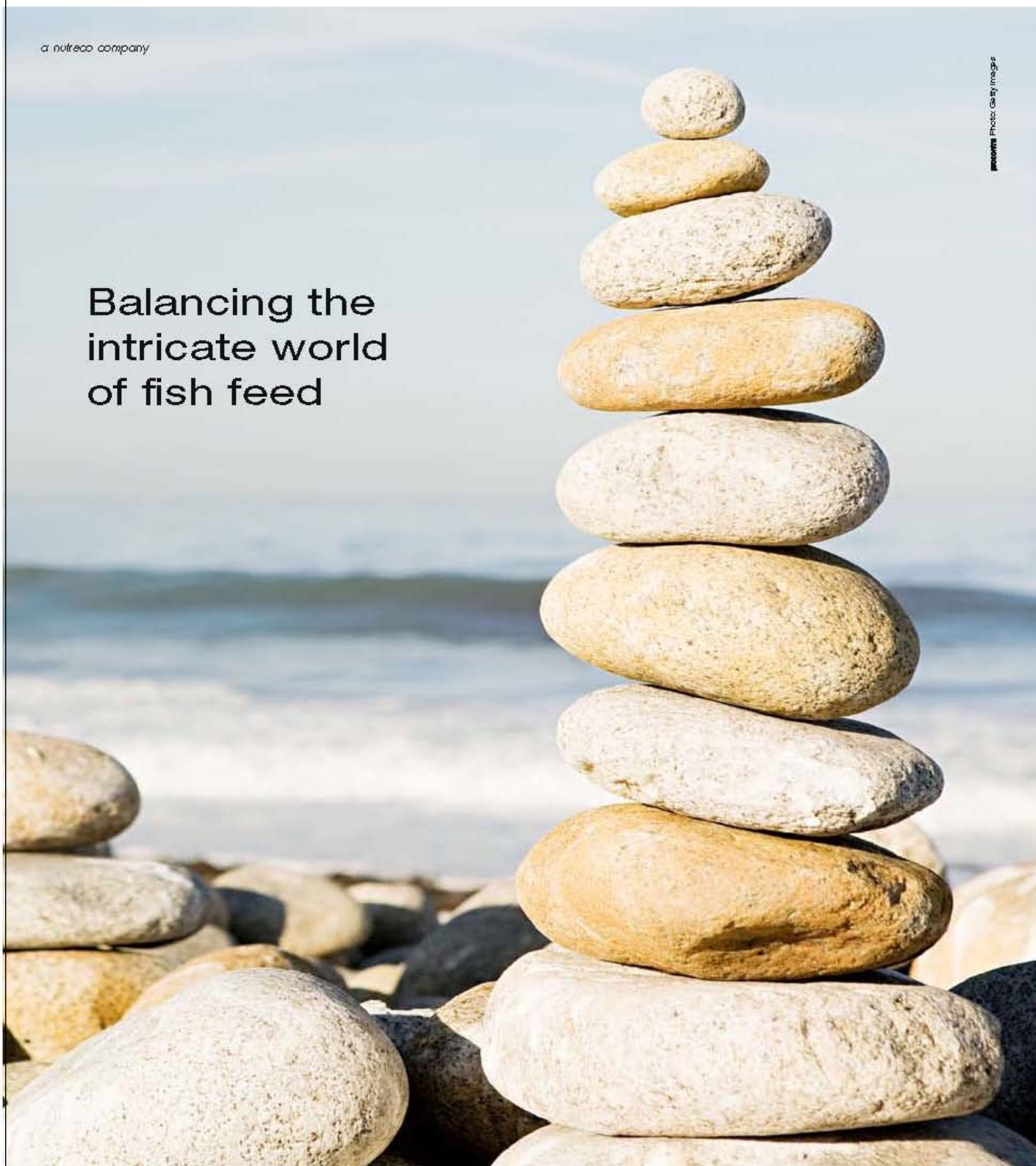
High protein, nutrient-dense diets that promote healthy growth in carnivorous fish.



a nutreco company

Photo: Getty Images

## Balancing the intricate world of fish feed



### **MicroBalance™ takes the evolution of fish feed one step further**

Intensive research has revealed new knowledge of micro-nutrients and how they interact in the fish. By balancing the micro-nutrients we are able to introduce a raw material flexibility never seen before. At the same time feed performance, fish welfare and quality are maintained at optimal levels. Balancing fish nutrition for a sustainable future. [www.skretting.com](http://www.skretting.com)

**Feeding your passion for fish**



From the Today Show  
today.com/recipes/snapper-charred-scallion-vinaigrette-t102965

## THE COOK'S CORNER

### Trout with Charred Scallion Vinaigrette

#### Ingredients

- 2 bunches green scallions
- 1/3 cup grapeseed oil, divided
- 2 six-ounce snapper filets
- 1 teaspoon soy sauce
- 1 tablespoon chopped fine ginger
- 1 teaspoon chopped garlic
- 1 teaspoon sesame oil
- 1 teaspoon yuzu
- Grilled lemon, for serving (optional)

1. In a very hot sauté pan, add some the grapeseed oil and the scallions. Cook until charred. You can grill them as well. Once they are charred, chop them up by hand.
2. In a bowl, add the chopped charred scallions, soy sauce, ginger, garlic, sesame oil and yuzu. Mix and set aside.
3. In a very hot pan, add grapeseed oil and the fish. Cook until the fish is seared and fully cooked.
4. To serve, place the charred scallion vinaigrette on the top or bottom of the fish. You can add a grilled lemon for extra flavor.



◆ *Dressed and Smoked Rainbow Trout*

◆ *Gift Boxes*

◆ *Retail and Wholesale*

◆ *Fee Fishing*

*Bring this ad & receive  
10% off fee fishing*

400 Hill Ave, Star Prairie, WI 54026

888-545-6808 ← toll free

INFO@STARPRAIRIETROUT.COM

www.starprairietrout.com



## WISCONSIN FLOWGATE & CULVERT COMPANY, INC.

9511 Bainbridge Trail Wisconsin Rapids, WI 54494

Telephone: 715-325-3302 Fax: 715-325-6213 Toll-Free: 866-FLOGATE  
E-Mail: sales@wisconsinflowgate.com Website: www.wisconsinflowgate.com

### MARINE GRADE ALUMINUM:

**CUSTOM ALUMINUM FABRICATION, ALUMINUM FLOWGATES, SLIDE GATES, PLASTIC CULVERTS, BOTTOM & TOP DRAW GATES, ALUMINUM STOPLOGS, SCREENS, FRAMES & MORE**



## 50 YEARS EXPERIENCE

OUR QUALIFIED STAFF WOULD BE GLAD TO HELP WITH ALL YOUR WATER CONTROL NEEDS

# AQUACULTURE DAY PHOTOS



Peter Fritsch giving a tour at Rushing Waters Fisheries



From left to right: Russ Davis, owner, Funny Farm Fisheries; Rep Rob Swearingen; Rob's wife Amy Swearingen; Todd Weberg, and Kerri Weberg, owners Funny Farm Fisheries; Oliver, son of Todd and Kerri



Senator Olsen at Wilderness Springs with Mike and Kathy Foster on the left



# MINUTES

## **WAA Fall Board Meeting Minutes Phone conference call Monday, Sept 26, 2016**

Dan Gruendemann opened the meeting at 11:03pm, Peter took over when Dan had prior commitment.

### **Present:**

Peter Fritsch, President; Terry Hogan, Vice President; Dan Gruendemann, Board Chairman; Board Directors: Ben Gollon, Mike Foster, Tim Winkel, Brandon Pigott; staff: Cindy Johnson, Secretary; Kathy Foster, Treasurer

### **Not Present:**

Board Directors: Tim Gollon, Jim Augustyn

### **Minutes from 031116 and approval**

Peter made the motion to accept the minutes from 031116 (Board Meeting and Annual Meeting), 2<sup>nd</sup> by Tim, approved and passed.

**WAS THERE A TOPIC AT THE CONFERENCE YOU WOULD LIKE TO HAVE COVERED AT THE 2017 CONFERENCE?**

**WAS THERE A TOPIC THAT WASN'T COVERED AT THE CONFERENCE THAT YOU WOULD LIKE TO SEE FOR THE 2017 CONFERENCE?**

**LET US KNOW - CONTACT ANY WAA BOARD MEMBER OR CINDY JOHNSON**

**See page 2 for contact information**

### **Treasurer Report and approval**

Kathy reported that there is \$953.14 in checking, \$110.04 in savings and \$50 in petty cash. At this time there is 1 outstanding invoice of \$400 for the Aquaculture Day PR and media contacts due. Tim made the motion to accept the report, 2<sup>nd</sup> by Terry, approved and passed.

### **Old Business and Current Issues**

**Axley Contract & Proposed Aquaculture Legislation Update**  
The wording for the Aquaculture Bill is being tweaked, we are working with the DNR on language that will be acceptable to all and address concerns. Hopefully this will pass the next legislative session. We have had some donations (\$9935) come in that have helped us with our bills, but we need to find funds to finish. The donors are: Rushing Waters, Gollon Bait and Fish Farm, Silver Moon Springs, Big Brown Fish Hatchery, Portfish LTD, Crystal Lake Fisheries, and Wild Foods. If we don't get this bill passed, don't get funding, and the association has to fold, then this industry will have a hard time surviving. Board members will contact their suppliers for possible donations. Peter has been in talks with the Soy Growers and they are interested in partnering with us in some way.

There was a discussions on our financial options:

Continue pursuing the Aquaculture Bill, utilizing Axley Law Firm and ask for donations from WAA members, the industry and suppliers

At the end of September, stop the monthly billing of \$1500 for legal service and go with an hourly billing (est. at \$375/hr.) and if we can't procure funds for payment, then pursue a loan from the United States Trout Farmers Association.

Keep the billing from Axley as is with a tab running and if we can't procure funds for payment, then pursue a loan from the United States Trout Farmers Association.

The USTFA have said they will apply any membership fee from WI to our loan. It would be to our advantage to encourage WI farms to join USTFA.

The board decide to go with option #1.

### **2017 Conference**

The following was discussed:

If we do 30 minute sessions, there are 18 slots available for talks. Potential talks will be solicited from vendors, researchers, university, government (NADF, UW-SP, ARS, LSSU, MKE, DNR, DATCP-produce a new food processing guide with UW-Extension) and farmers and the can review which to choose.

A possible workshop on Thursday will be explored – perhaps on one of the training/education programs that have received grants.

We need to leave *continued on page 7*

**Rural Mutual**  
Insurance Company

www.ruralins.com



As the leading insurer of Wisconsin farms, we recognize that agribusiness requires special protection. After all, your farm is your home, your business, and a considerable capital investment.

To protect what's important to you, call 1-877-219-9550 or visit our website and we can show you the variety of coverage's available to address all your insurance needs.

*Premiums Paid Here, Stay Here To Keep Wisconsin Strong.*





## WAA Minutes, continued

by 1pm on Saturday, so the auction will be Friday night.

### Other Old Business

None

### New Business

We received a request for support letter to extend workforce education project throughout the NCRAC region (Barb Evans, LSSU). The pre-proposal (which we already sent a letter for) was approved and this is to move the grant request forward. This will address:

- Workforce education
- Aquaculture programs in high schools (if any and what level)
- Create workshops for teachers
- Determine what skills are needed and be flexible to be modified by the schools and industry
- Identify colleges/universities w/ aquaculture programs and create opportunities for high school students to attend

Peter made the motion to send a letter of support, 2<sup>nd</sup> by Ben, approved, passed

The board will look at their calendars to pick a December meeting date.

### Adjourn

The meeting was adjourned at 11:55am

Respectfully submitted,  
Cindy Johnson  
Secretary, WAA

## Wisconsin Aquaculture Industry Advisory Council (WAIAC) Meeting

Monday, September 26, 2016 12:00 pm – 2:00 pm

Phone Meeting – DATCP conference line

Division of Agricultural Development

## DRAFT MINUTES

Meeting was called to order at 12:05 p.m. by Angie Sullivan

### Roll call/Introductions

**Voting Members Present:** Terry Hogan (Hayward Bait Shop), Peter Fritsch (Rushing Waters Fisheries), Ben Gollon (Gollon Brothers)

**Voting Members Not Present:** Dave Gollon (Gollon Bat and Fish Farm), Dan Gruendemann (Northside Enterprises), Bill West (Blue Iris), Dr. Robert Smith (Clayton Veterinary Clinic), Jim Held (Jim Held Consulting)

**Non-Voting Members Present:** Angie Sullivan (DATCP), Titus Seilheimer (Sea Grant)

**Non-Voting Members Not Present:** Dr. Myron Kebus (DATCP), Jeff Hicken (DPI), Brain Shepherd (USDA/ARS), Dr. Jhonatan Sepulveda Villet (UW-MKE), Dr. Chris Hartleb (UW-SP), Gregory Fischer (UW-SP/NADF), Cate Rahmlow (WEDC), Dave Giebtbrock (DNR)

**Others:** Cindy Johnson (WAA)

### March 11, 2016 Minutes approval

Ben Gollon made the motion to approve, Peter Fritsch 2<sup>nd</sup>.

### Old Business

None

*Continued on page 18*

# YOU KNOW FISH WE KNOW AERATORS

Our COMPLETE LINE OF AERATORS delivers much needed oxygen for fresh and salt water fish in ponds, lakes, and during transport. Their proven dependability results in better production, reduced loss, and improved growth rate for your fish.



See all our products at  
[www.freshflo.com](http://www.freshflo.com)

3037 Weeden Creek Road, Sheboygan, WI 53081  
920-208-1500



Our grater will make your job easier since sizes can be adjusted without juggling multiple baskets. The

grater floats and has larger bars so fish pass through with little chance of gill damage. Perfect for fresh or salt water, choose either the 30 or 50 settings model.

**Walleye Initiative**

None

**Sturgeon Initiative**

None

**Work Team Reports**

Business Development

Regulatory Policy

Research and Education

None

**Welcome to New and Returning Council Members**

Dave Gollon, Dan Gruendemann, Ben Gollon, Dr. Robert Smith, Jim Held, Titus Seilheimer

**New Business**

Peter Fritsch asked if aquaculture is utilizing all of the resources that is available through DATCP to help the industry. The industry is working on the Aquaculture Bill and is there any assistance or involvement that DATCP can offer?

Angie responded that she is new to aquaculture and she welcomes any suggestions or direction that the industry wants to give her.

Peter stated that DATCP is not as actively involved in aquaculture as it has been in the past and the industry needs help with crucial issues that come up.

Angie said she will talk with Dan Smith, Division Administrator, Division of Ag Development; Dr. McGraw and Dr. Kebus and will try to set up a meeting with the industry. She will keep Ben Brancel up to date on issues, progress and activities. She asked that a copy of the legislation and our legislative goals be emailed to her for a meeting later today with Dan Smith.

Peter wants to invite someone from DATCP to be at the next Aquaculture Bill meeting to be held in October with select farmers, WAA lawyers and DNR. He would like to know what support DATCP can offer the industry for the Aquaculture Bill.

**Next WAIAC Meeting**

Date, time and location will be pursued by the WAA board and passed on to WAIAC.

**Adjourn**

Peter Fritsch made the motion to adjourn, 2<sup>nd</sup> by Terry Hogan.

Meeting adjourned at 12:35pm

Respectfully submitted by Cindy Johnson

From NAA

**Feeding 9 billion by 2050 - Putting Fish Back on the Menu**

A variety of authors from around the world argue in a recent paper published in the journal *Food Security* that “fish [and shellfish] provides more than 4.5 billion people with at least 15% of their average per capita intake of animal protein. Fish’s unique nutritional properties make it also essential to the health of billions of consumers in both developed and developing countries. Fish is one of the most efficient converters of feed into high quality food and its carbon footprint is lower compared to other animal production systems. Through fish-related activities (fisheries and aquaculture but also processing and trading), fish contribute substantially to the income and therefore to the indirect food security of more than 10% of the world population, essentially in developing and emergent countries. Yet, limited attention has been given so far to fish as a key element in food security and nutrition strategies at national level and in wider development discussions and interventions. As a result, the tremendous potential for improving food security and nutrition embodied in the strengthening of the fishery and aquaculture sectors is missed. The purpose of this paper is to make a case for a closer integration of fish into the overall debate and future policy about food security and nutrition. For this, [the authors] review the evidence from the contemporary and emerging debates and controversies around fisheries and aquaculture and discuss them in the light of the issues debated in the wider agriculture/farming literature. The overarching question that underlies this paper is: how and to what extent will fish be able to contribute to feeding 9 billion people in 2050 and beyond?”

To read or download the paper, visit: <http://link.springer.com/article/10.1007/s12571-015-0427-z/fulltext.html>.

**From NADF**

**Home-Made Automatic Feeder Pricing**

\$59.99- Intermatic 24 Hour Mechanical Time Switch

\$4.89- Cord

\$2.18 per feeder-Plexi-glass (\$34.99/16 per sheet)

\$1.00- Wood

\$5.99- Plastic Welder Epoxy

\$0.75- 1 1/2” Schedule 40 PVC cap

\$0.70- 1” Schedule 40 PVC cap

\$0.50- Plastic Bolt

\$0.78 per feeder- Door Sweep (\$5.49/7 per one 36” long piece)

\$1.00- Steel unistrut

\$3.00- Additional hardware (steel bracket, nuts, bolts, paint)

Total= about \$81.00

**2016/17 Calendar of Events**

Dec 1 Winter WAA Board, 10am-noon  
WAIAC Meeting, noon-2pm  
Location: Schmeekle Reserve,  
2419 Northpoint Drive, Stevens Point, WI  
54481

Mar 2 Spring WAA Board & WAIAC Meeting  
Location: Hotel Marshfield, Marshfield, WI

Mar 3-4 2017 Wisconsin Aquaculture Conference

...”farmers across the country must comply with a variety of federal, state, and local regulations as they grow the ... (sic) food ... that we depend on to feed the nation and the world. In fact, because of their connection to the land, farmers do more to protect and preserve our environment than almost anyone else. They are some of the best environmentalists around.”

*Congressman Ike Skelton, MO*

**WISCONSIN AQUACULTURE ASSOCIATION, INC.  
2017 MEMBERSHIP APPLICATION/RENEWAL FORM**

WAA membership levels & benefits. All memberships run from Jan - Dec

Associate - \$35 Receive 4 issues of The Creel, name & address listed on members search, inclusion on member only list serv for vital information, use of portable display to promote Wisconsin Aquaculture, discounts on conference and selected workshop registrations, annual members' picnic, participation in annual Wisconsin Aquaculture Day, annual membership meeting.

Business/Active - \$75 Benefits of Associate level, **PLUS:** Business level members can vote at the annual membership meeting, are eligible to serve on the WAA or WAIAC boards, and only these members are listed on our online directory by processing, produce type, sales and fish species - this is an asset if you are a commercial business as consumers and other farmers utilize this directory when searching for producers and suppliers.

Group - \$100 1 business membership and up to 4 associate members - farm employees, vendor employees, agencies, university, etc.

**Join now and keep up with the latest in Wisconsin aquaculture news!**

For Renewals: Check here if your  name,  address,  phone, 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 (keep up to date with association and industry news)  Yes (need email address)  No

Type of Membership:  Renewal  New

Business/Active(\$75/year voting) \_\_\_\_\_  
Associate (\$35/year non-voting) \_\_\_\_\_  
Group (\$100.00/year) \_\_\_\_\_

**Donation to help with Aquaculture Legislation** \_\_\_\_\_

**TOTAL enclosed** \_\_\_\_\_

For Group level includes 1 business member & up to 4 associates - list members name (designate business member)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

If you have a Business membership please include: types of processing (ex. fillet, whole, smoked, etc.), producer types (ex. food, stocking, bait, etc.), fish species, sales types (ex. adult, fingerling, fry, egg, etc.)

Send this form & a check or money order to:  
WAA, PO Box 175, New London, WI 54961

Editor

Wisconsin Aquaculture Association, Inc.

1165 Riggles Gap Road  
Altoona, PA 16601

PRESORTED  
STANDARD  
U.S. POSTAGE  
PAID  
ASHLAND, WI  
PERMIT NO. 8

If your mailing label is incorrect, please contact Cindy @ 814-515-2570  
or email to: [cindy@wisconsinaquaculture.com](mailto:cindy@wisconsinaquaculture.com)

## WISCONSIN AQUACULTURE ASSOCIATION

