



Hoosier Fish Tales

Mission Statement: The IAAI (Indiana Aquaculture Association, Incorporated) enables aquaculture producers by promoting, marketing, educating, and nurturing aquaculture and aquaculture research in Indiana.



Some say recirculating aquaculture systems are the wave of the future for lots of reasons: biosecurity, less water usage, lower land space requirements, more stringent effluent regulations, ability to place a facility closer to a market, and a whole host of

other advantages. Granted initial capital costs are high, there are technological hurdles, and many large scale systems have gone belly up. The challenges will be and still are to make recirculation aquaculture systems competitive and profitable.

Quick Quiz

What North American family of native fish has the highest tolerance for nitrites?

- A.) the salmonidae family
- B.) the sunfish family
- C.) the cyprinidae family

The answer is on page 8.

In this edition,

President's Letter
.....Page 2

Small System Recirculating Tank Upgrade
.....Pages 2-5

Upcoming Dates and Events
.....Page 6

IAAI Sets Up Display at the State Fair
.....Pages 6

IAAI Discussion with South Putnam High School
.....Pages 7-8

Affordable Small Scale RAS Power Back Up
.....Page 9

Purdue Aquaculture Research Lab Activities
.....Pages 10-11

List of IAAI Officers and Executive Board Members
.....Pages 12-13

The IAAI Newsletter is produced quarterly and available at <http://www.indianaaquaculture.org/>



President's Letter

Ladies and Gentlemen,

As I write this 2012 is here and should be a growing year for aquaculture and the IAAI in Indiana. We have three more Board of Director members soon to join us in 2012, lots of ideas and interest, and continue to rack up the number of BOD meetings. In fact, we have at least one exciting future project to share, and get approval from you the members of IAAI at the February meeting at Purdue, thanks to the hard work of our secretary/treasurer Rob Wibbeler. I'll just say for now it will be a feather in the cap of IAAI and Indiana Aquaculture – even for the advancement of Aquaculture in general if we get approval from you.

Our V.P. Norm McCowen decided to step down due to him wanting to spend 100 percent of his time expanding the multi-million dollar aquaculture venture of Bell Aquaculture, which is the largest yellow perch farm in the world. We find that very understandable, and we're just glad he found the time he did to share his expertise, guidance, and foresight to help get the ball rolling for IAAI. We'll miss him on the board, but we know he won't just disappear, and will be there if we need him for anything. Bell Aquaculture is breaking new ground both figuratively and literally, and can only benefit us all by working the bugs out of a profitable aquaculture facility on a massive scale.

As you've probably noticed our third and fourth quarter newsletters are running late. As newsletter editor I take full responsibility for that. With your blessing I'd like to continue to do the newsletter and try to be more timely. My main computer has been down for months and to say it's frustrating to produce a newsletter without it is an understatement. I've had it worked on twice now with the same problem reappearing each time. I've also been expanding my small scale aquaculture niche business, running my fish taxidermy business, completely stripping and restaining my log home, and I set up a small scale RAS for a local high school complete with fish (yellow perch and bluegills) and the feed. I now have the utmost respect for anyone that is involved in setting up and engineering an RAS on a large scale. My systems are

small potatoes but still required countless hours of set up and reengineering.

As mentioned above and in this newsletter we will have an annual general membership meeting on Saturday February 4, 2010 from 9:30 to 11 A.M. at the Marsh Blue Ribbon Pavilion on the State Fair Grounds in Indy. Our meeting will be held just prior to the Purdue Fish fry which starts at 11:30 at the same location.

We will be discussing IAAI matters and get approval from you for the upcoming opportunity for IAAI. We realize it's a back to back timing with the big Tri-state spring meeting the following weekend but as BOD members we felt it imperative to have a discussion among the general membership here vs. our big spring meeting out of state.

As mentioned we will have a big two day Spring meeting and banquet on February 10th and 11th, 2012 in conjunction with Ohio's and Kentucky's aquaculture associations in Cincinnati, OH, with more details being announced as soon as they come in. I realize Cincinnati is a drive from many areas of Indiana, but I think it will be well worth it if you're committed to a future in

I'll just say for now it will be a feather in the cap of IAAI and Indiana Aquaculture...

Aquaculture. I already know some of you have been going to the Ohio show back when IAAI was in limbo.

There will be vendors, a silent auction, door prizes and a banquet; something for everyone from shrimp to baitfish to food fish production to aquaponics with a wide range of speakers and a few from Indiana. IAAI's BOD had input on what kinds of speakers, topics, etc. Things for Ohio and Kentucky have really come in to fruition after many years of hard work, and we can only benefit from that.

Sincerely,

Cecil Baird
IAAI President

Cecil D. Baird



Small Scale Recirculating System Upgrade

By Cecil Baird

In a previous newsletter I covered a small scale RAS system I put together thanks to an outstanding book called *Small Scale Aquaculture* by Steven Van Gorder. I've been using his system to bring inside YOY fish hatched in my outside ponds to grow them in the winter vs. no growth outside in the ponds. As with any market, the faster one can get the animal to market size the more profitable the system.

I decided to add a center drain, move the biofilter to a separate tank, and install a home made spray bar to get a self cleaning circular flow going. I also added some valves for various objectives and put a cover over the RBC (Rotating Bio Contact Filter) tank to keep it dark.

This system obviously may not interest a large scale commercial producer, but it's an excellent way to build your own RAS at low cost for hands on experience to get a grasp on the concepts that are integral to an RAS. There is nothing like hands on experience, and it doesn't get any more hands on then building your own components, monitoring water quality, actively growing fish, and solving problems regardless of how small a system is. And if you make a mistake and lose fish it's better to do it small scale and make your mistakes then vs. when you have a lot of money on the line with a large system!



Galvanized epoxy coated stock tank

The Tank

A galvanized stock tank was given to me which I had to strip down the old epoxy, remove the rust and acid etch the galvanized surfaces before repainting. I used Sweetwater Epoxy primer and paint to recoat. I used a much less expensive *Uniseal*® for installing the center drain vs. using a more expensive bulkhead fitting. (Dark ring in center cut out.)

The Center Drain

After reading literature on the self-cleaning of settleable solids by center drains in circular tanks via centripetal action, (also known as the "teacup effect"), I decided to build and install one in conjunction with the u-tube siphon I'd been using to remove both suspended and settleable solids. I'd been manually removing some settleable solids in the tank and wanted to end that. A tank that does not remove solids rapidly can produce ammonia, reduce oxygen levels, and the repeated manual cleaning can stress fish. The idea is to remove suspended solids with the u-tube siphon and settleable solids with the center drain.

For the drain, I glued in a slip 3 inch PVC shower drain with the grating cut out into a section of PVC pipe. I had to make a washer out of a thick plastic wall covering I had left over from building the RBC. This was due to the fact that the lip was not wide enough on the shower drain itself and could have pulled through the *Uniseal*® without the washer.



The shower drain, washer, and Uniseal

Small Scale Recirculating System Upgrade (continued)



Bottom View of Center Drain (different tank)

The Antivortex cover and Diffuser over the Drain

I decided to put an antivortex cover over the drain to keep fish in and eliminate the vortex produced by the water exiting the tank. An antivortex cover allegedly concentrates the flow, and of course keeps the fish in the tank as long as the clearance between the cover and the drain hole is low enough to keep them in. My gap is 1/2 inch due to some literature I had seen for a 3 inch Koi drain. This was simply a piece of very rigid plastic I cut out of a drain cover I purchased at Menards. I ran stainless steel screws through it along with two fasteners to put it at the correct height.



Top view of drain with antivortex cover before installation.



A view of the drain assembly under a different tank.



The entire drain assembly minus the fish tank and hose (left side of 't')



U-tube used in conjunction with center drain.



Small Scale Recirculating System Upgrade (continued)

The Spray Bar to Create Centripetal Flow

To create centripetal flow I built a spray bar with a horizontal and vertical axis. According to literature this is far superior to simply water spraying in on the surface or just a horizontal axis bar. I build both axis the same length with the length based on the depth of the water to place the horizontal axis directly below the surface. I used 3/4 inch PVC and spaced holes two inches apart.

I placed a ball valve in line with the water line which provides flow from a 700 gph 30 watt mag drive pump that sits on top of the clarifier tank, pulls water up through the filter material, and also runs water simultaneously to the power the RBC via a three way fitting. This is the only water pump on the entire system. I can regulate the flow which reduces or increases flow to the spray bar and RBC inversely. Some species such as bluegills don't like too much flow so I reduce it just enough to keep the centripetal flow going.



I draped a double layer of shade cloth I had left over from another project over the RBC tank to keep it dark. (Not shown.) Literature says the bacteria perform better in darkness. I used nylon rope and PVC fittings to keep it above the rotating RBC.



RBC and tank without cover

Here's the gravity flow return to the fish tank to complete the circuit. It's simply a 1 1/2 piece of PVC pushed through the RBC tank wall installed with a *Uniseal*® and several elbows attached for a splash return.



Aeration

Aeration consists of a 20 watt 20 lpm linear air pump purchased off of ebay and a 9 inch diffuser.



It's still a work in progress and rather simple but it does the job.



Upcoming Dates and Events

Greetings all,

Listed are two upcoming aquaculture meetings we wanted you to get on your calendar.

IAAI Annual Meeting - Saturday Feb 4, 2012 (9:30am-11am) at the Marsh Blue Ribbon Pavilion on the State Fairgrounds in Indianapolis. Our meeting will be held just prior to Purdue Ag Fish Fry which starts at 11:30 in the same location.

RSVP your attendance no later than Jan 5 by returning this e-mail. Indicate whether you wish to stay for the Fish Fry after the IAAI meeting (tickets for that event are \$20) as we will be requesting seating together for those who wish to purchase tickets.

Tri-State aquaculture Association Meeting - Friday/Saturday February 10/11, 2012 in the Cincinnati, OH area with Ohio and Kentucky aquaculture associations. This will be a great opportunity to network and hear from industry leaders.

We realize these are on back-to-back weekends. However, we believe the logistics and nature of our business update along with some exciting new business discussion warrant a separate IAAI meeting for our members and what better way than to tie it in with the Purdue Fish Fry.

Feel free to contact me if you have questions.

Rob Wibbeler

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IAAI sets up display at the State Fair

Rob Wibbeler Secretary/Treasurer IAAI set this up for us at the State Fair this summer. Thank you Rob for the taking the time to put this together and setting it up! Hopefully we will have many more producers soon to put on the state map!



Banners promoting the IAAI



IAAI Pres. Cecil Baird stands in front of the IAAI exhibit at the Indiana State Fair

IAAI Discussion with Students at South Putnam High School

by Rob Wibbeler

Did you know? More farm students reported having a cell phone than non-farm students. In a recent survey of agriculture students at South Putnam High School 91% of the students living on a farm reported having a cell phone compared to 84% of the non-farm students.

South Putnam High School (SPHS) boasts one of the nation's best aquaculture programs and the only one in Indiana with a traveling trailer. On Tuesday October 11, 2011 Rob Wibbeler made an IAAI presentation on aquaculture to three of Mr. Dave Davies agriculture classes at SPHS. A total of 48 students heard about the history, mission and plans of the IAAI.

The purpose of the presentation was to raise the awareness of students at SPHS about the uniqueness of their aquaculture program and to share information about jobs which the business of aquaculture creates both on the farm and in the industry.

SPHS is among the top aquaculture schools in the nation. With grow-out systems, hydroponic operations and a traveling trailer, South Putnam has resources few schools possess. Knowledge gained by SPHS students will prepare them for the jobs of tomorrow which include not only grow-out specialists (fish farmers of the future), but also those in hatcheries, feed mill operations, transportation,



processing, environmental science, environmental impact, gardening, robotics, electronics, engineering, software technology, consumer connections, and entrepreneurship.

IAAI believes the future of aquaculture is in the youth of today. IAAI's mission is to enable aquaculture producers. To gain a pulse on the needs of future producers we conducted a survey of the current uses of technology and asked students for input on three key educational efforts the IAAI is considering.

First, students were asked to identify the research and education needs to be able to own or operate a small farm with sustainable agriculture. Responses included help with management skills, marketing, cash flow, startup activities and expenses, how to obtain grants, techniques for successful farming, where to get equipment and others.

Next the students were asked about the IAAI website. What would cause you to go there? Keep you there? Cause you to bookmark it as a favorite? Responses included information about feed, different species, pictures, having it well organized, intuitive with games and music, interaction, seeing the big picture of aquaculture, startup tips for home operations, recipes, humorous, interesting and others.



IAAI Discussion with South Putnam (con't)

Lastly the students were asked to help design an interactive aquaculture education facility. They were asked...What components would put the “WOW!” in a visit? Responses here included being active with the fish and seeing them grow, having many different species including exotics, clear glass tanks, light shows, samples, learning to fillet a fish, different recipes, showing low-tech to high-tech tank supplies, noted speakers scheduled to talk throughout the year, student internships, annual events including fish fry’s and others.

In the technology survey students were asked about usage of their cell phone device. The average amount of time reported per day was 2 hours 20 minutes and ranged from ten minutes to ten hours. When asked which features they use (multiple responses allowed) 100% reported making calls, 95% used text messaging, 45% accessed the internet and 45% used it for games.

In the area of social media, 96% of non-farm students and 83% of farm students reported having social media accounts. Of the 43 students with social media accounts, 41 reported having Facebook

accounts, 12 had Twitter, 2 listed Yahoo, and 1 each for MySpace, YouTube and MyBigCampus. As with phone features multiple responses were allowed.

On the frequency of accessing all social media accounts, students were fairly well split with 33% checking their accounts once or twice per week, 26% on a daily basis and 37% checking two to ten times per day. Only two students reported checking more than ten times in a day.



Answer to the Quick Quiz



The Sunfish family most notably the bluegill (*Lepomis macrochirus*), which is one of the least sensitive species to nitrites, and the Largemouth bass which does not concentrate nitrite. Source:

Toxicity of Nitrite to Fish: A Review by William M. Lewis jr., and Donald P. Morris, Department of Environmental, Population, and Organismic Biology], Campus Box 332, University of Colorado, Boulder Colorado 80309, USA

Transactions of the American Fisheries Society
115:183-195, 1986



Affordable Small Scale RAS Power Back Up

by Cecil Baird

Electrical power is the life support of recirculating systems and if it goes out fish can be in danger in short order. I hate to use cliches but the old, "It's a not a matter of if but when," applies here.

There are ways to deal with the problem if your power goes out, and the big commercial farms use sophisticated back up such as diesel generators, propane powered Genrac or similar units etc. But what if you're not at the stage where you need to make that kind of investment but nevertheless need some kind of back up? There's those gasoline powered generators you run outdoors, and run an annoying extension cord into the house or your facility, and you may be constantly filling it with gas. There are similar units that use the propane tanks just like the ones you use on a grill. Or if you just need air to keep the fish alive you can switch over to a possibly a DC powered agitator(s). And there's the use of a oxygen tank with solenoid that automatically opens to release oxygen if if your power goes out.

But with the exception of the oxygen tank and solenoid that automatically releases oxygen if the power goes out, you could miss a power outage while you'r sound asleep at night or you're away from home. Maybe if you're sleeping you can set up an alarm that kicks in if the power goes out, but who wants to get up at 2 A.M. to scramble around getting power back up going? And how does that help if you're not home? I've found a viable affordable option, that automatically kicks over an alternate power source in milliseconds regardless of my sleep status or if I'm not home.

I purchased an inverter from the Tripp-lite company, specifically this one. The APS750.

<http://www.tripplite.com/en/products/model.cfm?txtModelID=2938>

It's listed much higher in prices at some places but I bought the unit for just over \$200.00 on Amazon.com. I have another two hundred invested in a couple of deep cycle marine batteries and cables and according to online calculations here

http://www.donrowe.com/inverters/inverter_faq.html#modified

It will run my two water pumps and 40 watt air pump for 12 hours on the two batteries. A single system would run for 16 hours.

I can add more run time by adding one or more batteries parallel wired. I do have it plugged into a non GFIC outlet incase of an anomalous trip but it's not in danger of any water issues.



Purdue Aquaculture Research Lab Activities

by Rob Rode



Now that the IAAI Newsletter is up and running once again, I thought it would be a good idea to let new and past readers know what has been happening at the lab over the past several years. The majority of our work here is related to research with sometimes as many as 5 researchers using the facilities. Research of interest to readers of the newsletter, is mostly related to nutritional studies with species of interest to Indiana and the Midwest.

In 2010, we started a largemouth bass and hybrid striped bass cage-culture experiment, funded by the Indian Soybean Alliance (ISA). We are comparing a commercial diet (Silver Cup Steelhead diet) versus one experimental diet for hybrid striped bass (HSB) and one for largemouth bass (LMB). The fish are being grown through this fall in order to reach market size. Unfortunately we had heavy winter mortality as we were unable to treat the cages/fish for fungal infections. We have consolidated the cages to keep stocking rates high. In addition to testing the diets, we are looking at the viability of growing LMB in cages as this has not been recommended in the past. We expect to harvest late this fall.

This year, Purdue in conjunction with Lincoln University in Missouri and Iowa State University obtained a grant from the North Central Regional Aquaculture Center (NCRAC) to look at a least-cost formulated feed versus a commercial diet (Silver Cup

Trout diet) for rearing year-1 bluegill in earthen ponds at commercial stocking rates. We plan on harvesting this study in October of this year but are in the process of applying for additional funding to carry these fish out to market size in the fall of 2012.

In 2010, Dr. Jon Amberg, a post-doc under Dr. Paul Brown, had a yellow perch study looking at soybean meal as the primary protein source in diets, along with genetic testing of differences of the YP strains from two geographic areas. Potentially, one genotype of YP may utilize a plant-based diet (soybeans) more efficiently than its brethren. This study was funded by ISA and USDA-ARS. Dr. Brian Sheppard with the Great Lakes Water Institute in Milwaukee was a co-investigator. There was no difference in growth between the two strains, but at higher soybean levels there were genetic markers that indicated one strain may utilize soybean meal better than another. Please contact Dr. Sheppard if you have any follow-up questions.

Over the past 4-5 years, I have also attempted to do some “demonstration” type projects. These are not replicated research but rather potential rearing options that producers in Indiana and the Midwest



Purdue Aquaculture Research Lab Activities (con't)

may use. We have done two types of YP spawning and larval production here at the lab. Over a two to three year period, we have spawned YP in ponds extensively on old Christmas trees, and indoors with hormone (HCG) injections and strip spawning. We have hatched pond-spawned ribbons indoors and outdoors on the trees. We have raised larval YP in the lab under very controlled conditions with rotifers and artemia live feeds and outdoors in fertilized nursery ponds. Lastly we have grown out YP to market size both indoors and in ponds.

Several years ago, Dr. Brown had a NCRAC pond study on LMB nutrition. Post-research, we kept some of the market-size fish as brood stock and have been spawning and feed-training the fingerlings for demonstration and production purposes.

Although difficult on a small scale such as ours, we have produced over a thousand feed trained fish which should be ready for market next year. One of the most interesting aspects of this work is the accidental shift in spawning of a group of brooders held indoors for several months on well water at about 50 degrees. When stocked out in a pond in July, they immediately started spawning, giving us two separate groups for that year.



We spawn and produce Tilapia on a yearly basis. In order to regenerate tilapia brooders for research needs, new generations of tilapia are produced at least yearly. Brooders are selected, allowed to spawn and then the eggs/fry collected to be incubated in hatching jars. Fingerlings produce are either grown out here in recirc. systems or reared in cages at the Southern Indiana Purdue Ag. Center in Dubois County. New brooders are selected to replace the older fish and the bulk of fish produced are sold.

I hope this gives you an overview of the type of work we are doing here at the lab. If you have any questions or if we can be of further assistance please don't hesitate to call.

Bob Rode

Lab manager

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Upcoming Events**IAAI Meeting**

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(9:30am-11am) at the Marsh Blue Ribbon Pavilion
on the State Fairgrounds in Indianapolis. Our
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Tri-State aquaculture Association Meeting -
Friday/Saturday February 10/11, 2012 in the
Cincinnati, OH area with Ohio and Kentucky
aquaculture associations. This will be a great
opportunity to network and hear from industry
leaders.

Your Input Needed

Please provide suggestions and articles to
allow us to serve you better. Contact:

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