

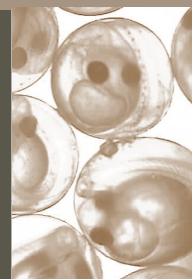
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Iowa Chapter of the American Fisheries Society

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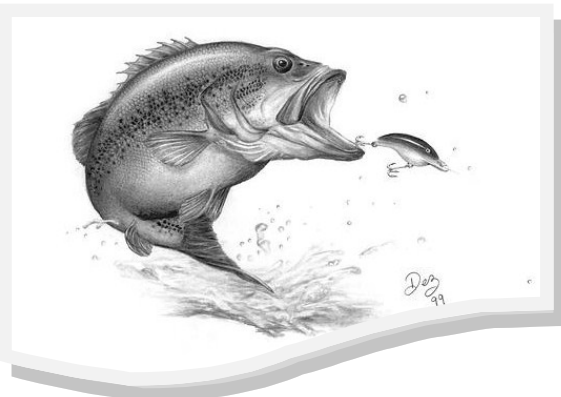


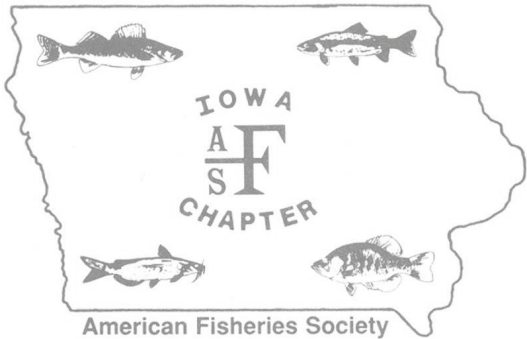
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- 11 New Mathematical Methods to Help Fisheries Stock Assessment





Visit Iowa AFS on the web:  
<http://www.fisheriessociety.org/iowa/index.html>

OFFICERS

PRESIDENT

Allen Pattillo  
Fisheries Extension  
339 Science II  
Iowa State University  
Ames, IA 50011  
(515)294-8616  
pattillo@iastate.edu

PRESIDENT-ELECT

Lewis Bruce  
Cold Springs Station  
57744 Lewis Rd  
Lewis, IA 51544  
(712)769-2587  
Lewis.Bruce@dnr.iowa.gov

SECRETARY/TREASURER

Dan Rosauer  
Rathbun Hatchery  
15053 Hatchery Place  
Moravia, IA 52531  
(641)647-2406  
Dan.Rosauer@dnr.iowa.gov

MEMBERSHIP CHAIR

Ben Wallace  
Black Hawk Fisheries Station  
116 South State Rd  
P.O. Box 619  
Lakeview, IA 51450  
(712)657-2638  
Ben.Wallace@dnr.iowa.gov

Our Mission:

To improve the conservation and sustainability of fishery resources and aquatic ecosystems by advancing fisheries and aquatic science and promoting the development of fisheries professionals.



COMMITTEE CHAIRS

Audit

Ben Dodd  
Ben.Dodd@dnr.iowa.gov

Membership

Ben Wallace  
Ben.Wallace@dnr.iowa.gov

Resolutions

vacant

Continuing Education

Clay Pierce  
cpierce@iastate.edu

Student Affairs

Mike Weber  
mjw@iastate.edu

Nominations

Gary Siegwarth  
Gary.Siegwarth@dnr.iowa.gov

Best Paper

Chad Dolan  
Chad.Dolan@dnr.iowa.gov

Newsletter Editor

Kim Hawkins  
Kim.Hawkins@dnr.iowa.gov

# President's Corner

**D. Allen Pattillo**

Greetings from Iowa State University! How 'bout them Cyclones!?!

I would like to start out by thanking everyone for making a great turnout for the 2015 Iowa AFS annual meeting in Ames, IA. We had a great time learning the status of fisheries in Iowa, as well as getting a first taste of Iowa's newest aquaculture species (Barramundi), all while watching one of the most exciting basketball games I've ever witnessed! A huge thanks to Ben Wallace, Dan Rosauer, Lewis Bruce, and the Iowa State University student subunit for helping to plan and execute the event. A special thanks to Dr. Bob Summerfelt who gave the plenary session talk entitled "Contemporary Issues Impacting Aquatic Resources and What the Future May Hold".

Dr. Summerfelt claims that this was his final public engagement, but he has also been retired since 2005 and still comes in to work...we'll see.

The raffle and auction was an exciting success. We had a substantial amount of prizes donated for the raffle and auction ranging from artwork and fishing equipment, to salsa and even a giant fish pillow. The iconic, boomerang, live-auction item, "Two Dogs in Some Field" made yet another appearance, and after a lively auction led by auctioneer extraordinaire, Ben Wallace, Randy Shultz claimed this year's honor of procuring the best wall art ever! I know you're jealous, and you should be.

Congratulations to Mike Hawkins and Wes Sleeper for winning Best Paper. Mike Hawkins was honored for his past service on the Fish Management Section of the AFS North Central Division. We also honored Ben Wallace for his service through the presidency for Iowa AFS. Thank you all for your service and contributions.



In other news, we had some changing of the guard with retirements. If anyone is interested in serving on a committee or if there are any nominations for President-Elect, please send them to me at [pattillo@iastate.edu](mailto:pattillo@iastate.edu).

Finally, we decided to begin using the newly developed Iowa AFS website, [iowa.fisheries.org](http://iowa.fisheries.org). We will be needing new content and updates on a regular basis to keep it looking lively, so plan to contribute.

We are looking forward to another productive year for fisheries.

Sincerely,

*D. Allen Pattillo*



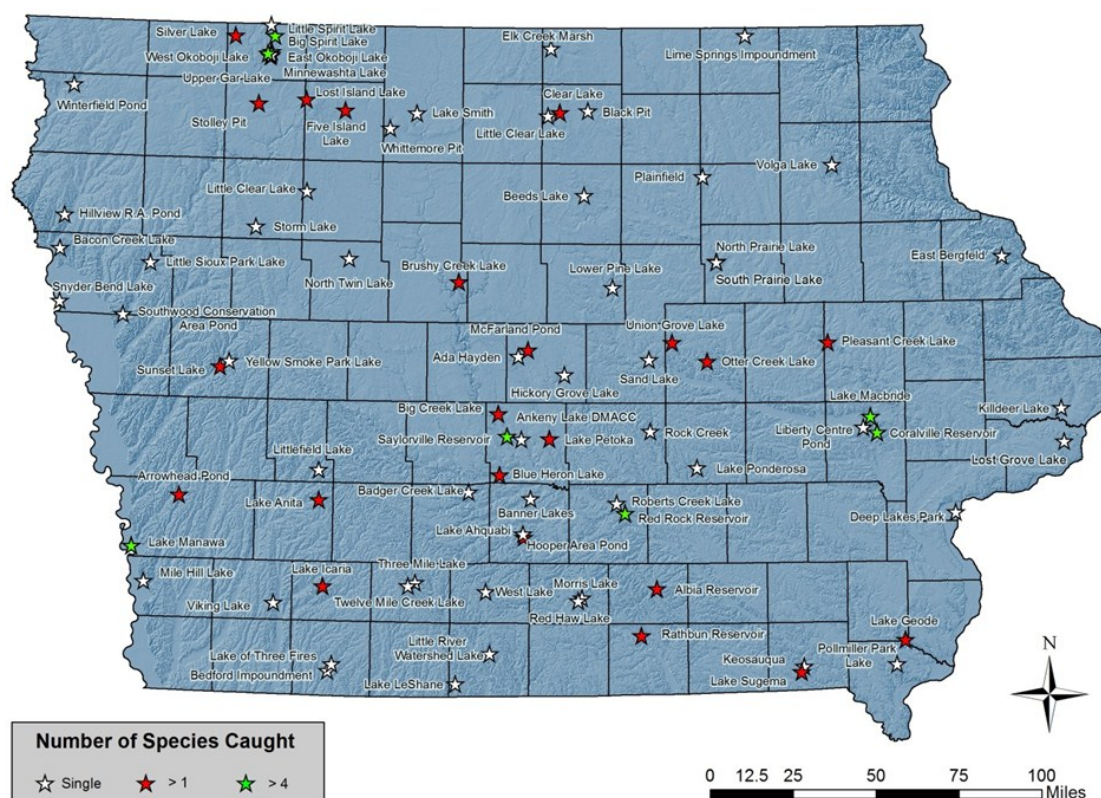
# Achieving Master Angler Status, how do I get started?

Lewis Bruce, Fish Research ~ Iowa DNR

You decided this is the year you will become a Master Angler but you don't know how to get started. Focusing on lakes that grow big fish will be part of the plan but how does someone narrow down the long list of prospective lakes. Another question is which species of fish are going to be targeted. If you are asking these questions stash this article in your boat or tackle box for future reference.

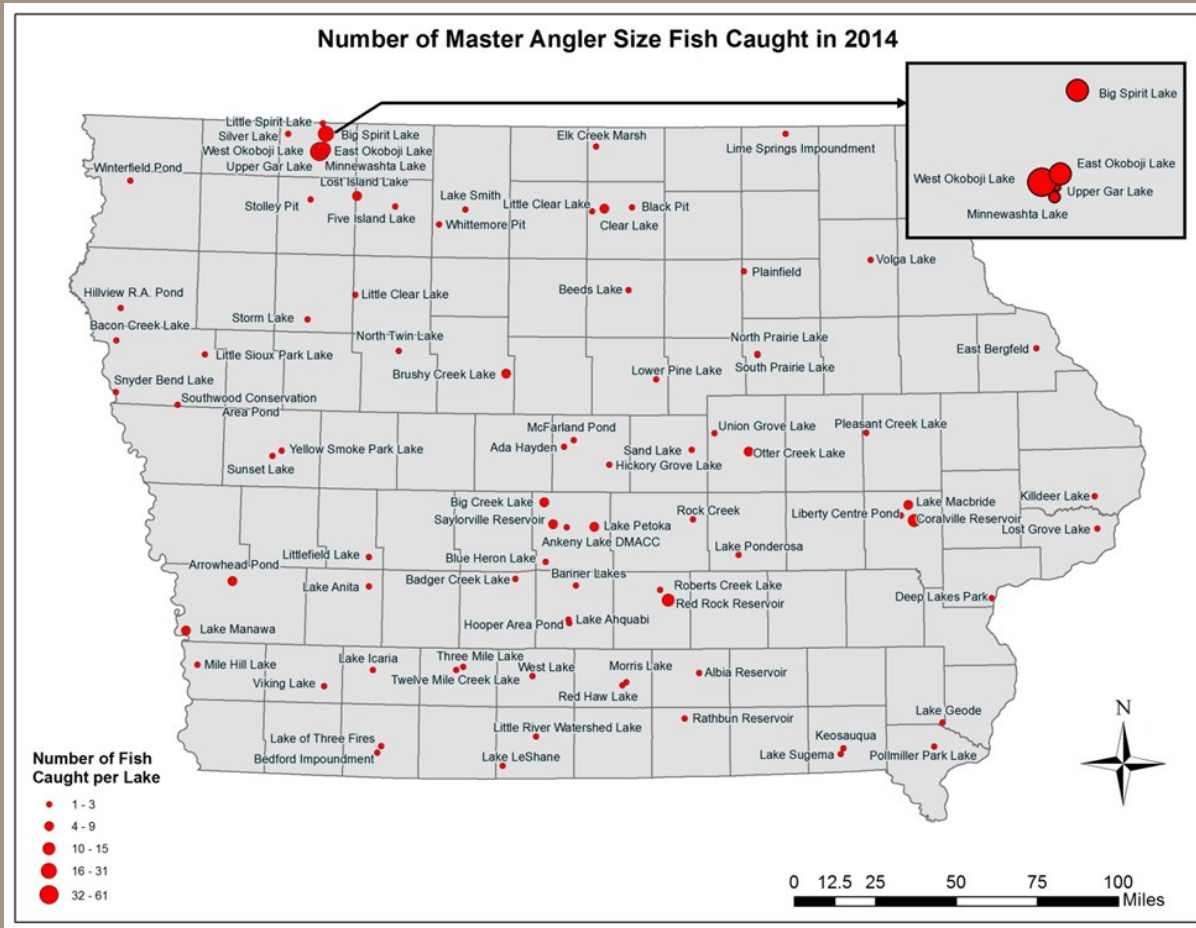
The Master Angler Program presented 304 awards for 28 different species of fish caught in 84 DNR managed lakes during the 2014 fishing season. Figure 1 shows locations where master angler fish were caught and it includes information about individual lakes that produced multiple species achieving trophy size (e.g. Coralville Reservoir, East Okoboji, Saylorville Reservoir, Red Rock Reservoir, Rock

Iowa's Master Angler Lakes in 2014



Not only were multiple species caught in a single lake but several fish of the same type were angled out of a single lake. A good example is West Okoboji, this natural lake located in Northwest Iowa tallied up 39 awards for yellow bass in 2014. Another important piece of information, illustrated in figures 1 and 2, is that large lakes and reservoirs produce lots of large fish. Large lakes and reservoirs typically hold more fish species than smaller lakes, so you should consider targeting big bodies of water if chasing multiple species is on your agenda.

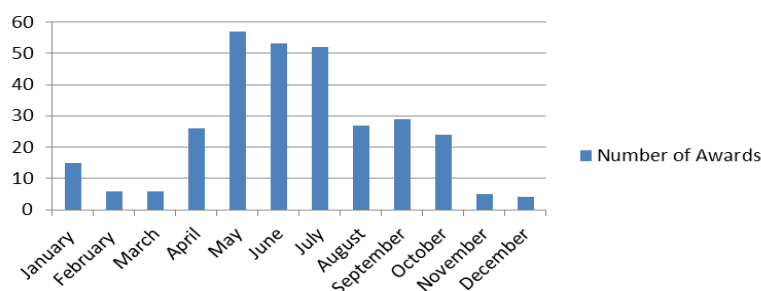
Iowa's lakes range in size and water body type (i.e. impoundments, natural lakes, and quarry pits). This can be an important tidbit of information if fishing close to home or targeting specific lake sizes is part of the plan. Twenty-two Bluegill worthy of a Master Angler Award were caught in 11 lakes throughout the state ranging from 11 to 5,680 acres.



Trophy sized bluegill were caught in multiple lakes across the state, but which popular game fish reeled in the most awards in 2014? Largemouth bass took the spot with 49 awards from 35 lakes. This predator fish eats anything that fits in its mouth and is found in most of the lakes and ponds in Iowa so it's no surprise to see largemouth bass at the top of the list. Crappies fill in the second slot right behind largemouth bass with 43 individual awards from 32 lakes. To view the other 26 species of fish browse through all of the awards presented in 2014 and view locations, species, and other information by visiting the Master Angler web-site, [www.iowadnr.gov/Fishing/MasterAnglerFirstFish](http://www.iowadnr.gov/Fishing/MasterAnglerFirstFish).

Spring, summer, fall, or winter is the next question. Fishing is an activity for every season of the year but certain seasons can be more productive than others as you can see in table 1. Picking the optimum time of year to chase fish worthy of a master angler award can reduce the number of casts between fish. Master angler fish were caught and submitted every month in 2014. May and June pulled in the most awards with December bringing in the fewest. Although the spring months were popular not all fish species were caught in abundance during this time frame, a majority of channel catfish awards were angled in August and September.

### Number of Master Angler Awards in 2014



A little research about the fish species and locations you are planning to fish can go a long way toward setting the hook on a master angler fish. This article only discusses master angler awards from lakes, rivers are also productive waters to fish and catch trophy sized fish. The Master Angler Program is just one of the many free tools available in the fisheries webpages found on the Iowa DNR website, [www.iowadnr.gov](http://www.iowadnr.gov), anglers can use to hunt for productive lakes and shorten the time between bites.



# Iowa State Subunit News

*Nic Rhinehart ~ ISU subunit president*

*Jed Siegwarth ~ President Elect*

*Dray Carl ~ ISU subunit treasurer*

*Grad Student:: Advisors Carlos Camacho and Chris Sullivan*

Hello everyone for those who don't know me my name is Nic Rhinehart I'm the current president of the ISU Chapter of the American Fisheries Society. Our club focuses on educational activities for students, exchange of technical information among members, and aids in education and professional development for our members. This year we have really tried to ease the transition from student to professional for our club members.

Some activities we have done this year include;

- Mark recapture SMB on the skunk river
- Asian Carp Snagging
- Topeka Shiner Seining
- Community fly tying lessons
- Ada Hayden Trout stocking
- Lake McFarlan and Pederson Pits fish structure
- Seminars on macro invertebrates
- Mock interviews with Jason and Kim
- Volunteering for the Iowa state wide AFS meeting



Activates we have planned for the rest of the year;

- Fly casting seminar
- Trip to Big Springs Hatchery
- Boat and trailer maintenance
- College Creek sampling
- Brood Stock collecting

We are all very excited about this volunteering and furthering out education. We have made a lot of progress in our club to really get students the education and experience they need to fulfill future job requirements and to broaden their knowledge in fisheries science. We are looking forward to next school year and are already brainstorming ideas for future events. We would love the input of the state chapter and state agencies on what you think our students need to learn that they might not be getting in a class room setting. If you have and suggestions shoot me an email at [nwr@iastate.edu](mailto:nwr@iastate.edu). We appreciate everything you do for us and are excited to work with fisheries professionals like you.



# Aquatic Plant ID Resources for Fishery Professionals and the Public

Darcy Cashatt, Fisheries Research ~ Iowa DNR

Check out the two new aquatic plant ID resources. The first is for fishery professionals and can be found at in the Iowa DNR Intranet under Conservation and Recreation Division and then Fisheries (<https://intranet.iowadnr.gov/staticpages/index.php?page=20121109151202360> logging in is required to gain access to the document). It is an improved version of the Power Point presentation used for the IA AFS Plant ID workshop back in 2009 at the Iowa Lakeside Lab. It is a good refresher or even first time introduction prior to sampling plants in the field.



The second is suitable for the general public and is a picture key with a few distinguishing characters for 24 species that are most common. This PDF has links throughout to facilitate moving through the presentation, or starting over to go in a different direction. The link to the PDF is integrated in the Iowa Farm Pond page under Farm Pond Plants (<http://www.iowadnr.gov/Fishing/AboutFishinginIowa/IowaFarmPonds/FarmPondPlants.aspx>). Invasive plant species are noted.



If you don't have access or are having difficulties accessing either of these documents, contact Darcy Cashatt ([darcy.cashatt@dnr.iowa.gov](mailto:darcy.cashatt@dnr.iowa.gov)).





# Rice Lake Returns

~ Iowa Outdoors

The topic was lake restoration, but in 2009, the small group of lake users living near Rice Lake wasn't ready to discuss pulling the plug on the 1,000-acre shallow lake straddling the Worth-Winnebago county line.

Fishing was boom or bust (mostly bust), peaking in 2010 with good crappie, perch and walleye fishing. The lake was full. Residents were satisfied.

But an unbiased look at the lake showed little habitat, with turbid green water and less than a dozen people boating and duck hunting on it. Rice Lake is a big state lake, with little public use. Then opportunity knocked.

The drought of 2012 took hold (2012 photo), dropping Rice Lake's water level low enough that the citizenry didn't think the fish would survive the approaching winter. Suddenly, renovation discussion was on the front burner.



*Rice Lake WMA2 10-15-2012*  
Photo provided by G. Zenner

In 2013, DNR fisheries biologist Scott Grummer and DNR wildlife biologist T.J. Herrick met with the public, hearing concerns about how long it would take for Rice Lake to refill and when fishing would return. They presented a vision of Rice Lake with clear water, a quality fishery that was attractive to wildlife. The community was on board.

The fishery had a number of issues, one of which was a significant bullhead population that made establishing aquatic plants difficult. While the lake was dewatered, any remaining water ponds were chemically treated during the winter to make sure no fish remained.



*Rice Lake WMA2 10-24-2007*  
Photo provided by G. Zenner

The combination of drought and dewatering the lake allowed vegetation to take root and when Rice Lake began holding water again, the improvement in lake water quality was striking.

Before renovation, you could see down 8 inches in the water. After renovation, it was 5 feet.

Gone was years of poor water quality and trash from the lake bottom along with it. While the water was low, local volunteers combed the shoreline to remove trash and debris from the exposed lake bed.

As the lake began to refill, fathead minnows returned and in huge numbers. Those minnows were greeted by hungry yellow perch, northern pike, walleye, and largemouth bass that were stocked in 2014. The perch have shown explosive growth reaching nearly seven inches in year one and Grummer expects them to hit 10 inches by fall 2015.





The response by wildlife has been just as impressive. “We are seeing incredible use of Rice Lake, even by teal,” says Herrick. “Lots of ducks, swans, sandhill cranes, just about anything that uses water is there.” In the past, there were only two places on the lake to duck hunt. Now, with better water quality and vegetation, “we could have a spot for every duck hunter in north Iowa,” says Rock Bridges of Lake Mills. He expects to see muskrat huts, goose nesting sites and otters return.

The balancing act for lake managers is to handle interests from homeowners, boaters, anglers and hunters.

The lake has refilled to within 18 inches of crest and the results are impressive. The water changed from green to blue; submergent vegetation has knocked down wave action so much that it’s near impossible to get a white cap even on the windiest day. Waterfowl using the lake shifted from mergansers and shovelers to mallards and teal. Tiger salamanders and thousands of leopard frogs and dragonflies cover the shoreline – all signs of good water quality.

The final piece of the puzzle is to install a new outlet to allow the DNR to manage the lake water level to simulate Mother Nature’s cycles to keep the lake in this healthy state.



The 1,000 acre lake with its 1,000 acre watershed is set up to be a high-quality resource for years to come. “The lake is in its healthiest state right now with all the aquatic plants, invertebrates and the final result has not yet been realized,” Grummer says.

The Rice Lake story, as well as other success stories from 2014, are highlighted in “Working for Clean Water: 2014 Watershed Improvement Successes in Iowa,” a booklet available at <http://www.iowadnr.gov/Environment/WaterQuality/WatershedImprovement/WatershedSuccesses.aspx>.

For more information on the DNR’s watershed improvement efforts, contact Steve Hopkins at 515-725-8390 or at [Stephen.Hopkins@dnr.iowa.gov](mailto:Stephen.Hopkins@dnr.iowa.gov) or visit [www.iowadnr.gov/watershed](http://www.iowadnr.gov/watershed)

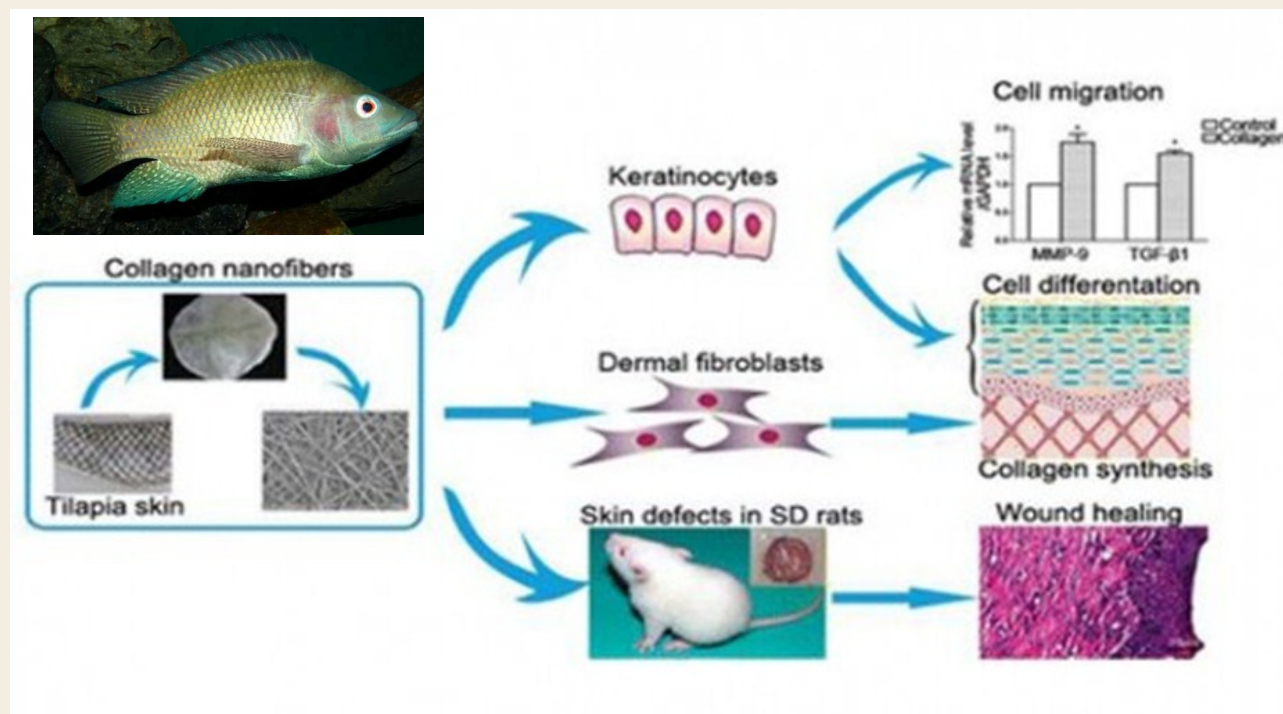
# Fish skin bandages help heal flesh wounds Science!

By Jordan Minor Feb. 20, 2015

Although the idea of wrapping yourself in fish scales might make your skin crawl, it turns out you would actually be doing your skin a favor. Researchers at Shanghai Jiaotong University School of Medicine in China have been testing different kinds of biological materials to see how helpful they are at treating wounds. Their results show that fish skin is one of the fastest and most effective healers.

In their paper “Development of Biomimetic Tilapia Collagen Nanofibers for Skin Regeneration through Inducing Keratinocytes Differentiation and Collagen Synthesis of Dermal Fibroblasts,” the team explains how they used protein from tilapia scales to heal wounds in lab rats.

What makes fish skin, especially tilapia scales, such a great catalyst for healing is that they are rich in collagen. This structural protein allows new cells to form while wounds are protected from outside pathogens. Although other animals such as cows and pigs have plenty of collagen too, they also come with the risk of infection. Fish on the other hand don't tend to carry the same mammal-harming impurities making them a much safer choice. The immune systems of the lab rats had no problem accepting the fish collagen.



To put this theory to the test, the team created tilapia nanofibers with the strength and flexibility to stay attached to moving skin while still keeping its shape at varying temperatures. And just like they predicted, the rats with the tilapia collagen dressing healed their wounds much faster than those without it. But the paper doesn't mention anything about the healthy rats smelling fishy.

There's still plenty more research and trials to be done, but the team hopes to eventually apply the power of fish collagen to low-cost consumer medical products, perhaps ones

with antimicrobial properties as well. “What makes this work of such value is the high availability of the starting material and the implications this could have for cost-effectiveness in chronic wound care,” says Giuseppe Tronci, a biomaterials expert at the University of Leeds, UK in an interview with Chemistry World.

Hopefully fish and medicine have a great future together that will benefit the rest of us. Cod liver oil already has people associating fish with health, so why not just take it one step further? Plus, with fish bandages, you don't even have to put up with any nasty flavors.



# New Mathematical Methods to Help Fisheries Stock Assessment

~ March 4, 2015

[www.thefishsite.com](http://www.thefishsite.com)

**FINLAND - By applying new mathematical methods, the uncertainties related to fisheries stock assessments can now be taken into account, thus providing more reliable assessments to support decision-making.**

In her doctoral thesis, Henni Pulkkinen, Researcher at the Natural Resources Institute Finland (Luke), explored how the various sources of uncertainty can be taken into account in fisheries stock assessment by using Bayesian statistical models, which enable extensive combining of information.

For example, biological and ecological data on related species can be utilised in the assessment of many endangered and data poor fish stocks.

"Bayesian modelling represents a learning process where existing information is updated with new information. The challenge lies in identifying the wide variety of sources containing useful information. Such information can be obtained from literature or databases, but it can also be so-called tacit knowledge collected through expert interviews," said Ms Pulkkinen, who will defend her thesis at the Faculty of Biological and Environmental Sciences of the University of Helsinki on 27 February 2015.



## Nature does not follow a single mathematical formula

While traditional fisheries stocks assessment models are largely designed based on observed data, sufficient attention is not paid to the uncertainties underlying the resulting assumptions. Bayesian modelling enables the description of the whole biological process even if the amount of data available is small. This makes it easier to identify the least known elements and take into account any uncertainties related to them.

In her doctoral thesis, Ms Pulkkinen also discusses model uncertainty (structural uncertainty), which results from the fact that the phenomenon being researched can be explained with several – even contradicting – theories.

"There is not a single mathematical function representing a natural phenomenon that is absolutely correct. However, a combination of several different, even competing views on the best mathematical model can provide a more extensive understanding of a phenomenon than any of them alone. The model choice can have a significant effect on the interpretation of data."

One of the success stories related to Bayesian modelling is the Baltic salmon stock assessment model, which Ms Pulkkinen also reviews in her thesis. The model combines biological background knowledge with extensive research data of the wild salmon stocks in Finland and Sweden. The International Council for the Exploration of the Seas (ICES) uses fisheries stock assessment data in its annual scientific advice concerning the fishing quotas for the Baltic salmon.

According to Ms Pulkkinen, the use of Bayesian statistical models is increasing in population biology. However, modelling requires understanding of probability calculus, and the in the practical implementation of the models computational challenges need to be tackled.

Despite these challenges, Bayesian models have become a daily tool in numerous fields. In fact, most of us use Bayesian applications on a daily basis without knowing it, for example, in search engines, translation software and speech recognition systems.

*TheFishSite News Desk ~ [www.thefishsite.com](http://www.thefishsite.com)*

# 2015 Iowa AFS



**2014 Best Student Paper:**  
**Wes Sleeper (accepted by Paul Sleeper)**



**2014 Best Professional Paper:**  
**Mike Hawkins**

*NCD award: Fish Management Section—Iowa  
representative: Mike Hawkins*



**2015 Plenary Presentation:**  
*Contemporary issues Impacting Aquatic Resources and What the Future May Hold*  
**Dr. Robert Summerfelt**



*Highest Bidder "Two Dogs in Some Field"*  
**Randy Schultz—SE District Supervisor**



# **Iowa Chapter of the American Fisheries Society Annual Business Meeting**

## **Iowa Chapter AFS Meeting – Hilton Garden Inn Ames, IA**

### **4:20 PM, Thursday, March 12, 2015**

#### **CALL TO ORDER**

The meeting was called to order by President Allen Pattillo. Allen introduced EXCOM: Secretary/Treasurer: Dan Rosauer, Past President: Ben Wallace, President Elect: Lewis Bruce, Student Subunit President Nic Rhinehart. In attendance at the beginning of the meeting were 47 chapter members.

#### **TREASURER'S REPORT**

Treasure's report was given by Dan Rosauer. The chapter started report period (2/14/2014) with a balance of \$18,477.02 (7,568.65 in warm water, 75 in outstanding Big Creek Checks resulting in 10,833.37 available for AFS). Disbursements since the last financial report equaled \$ 9,416.28 and receipts equaled \$ 13,040.14. IA AFS is holding fund for a Mike Mason Memorial and received \$5,095 to disperse appropriately. The continuing education class resulted in a profit of \$645. The annual meeting, dues, raffle along with parent society returns resulted in \$7,300.

Noteworthy expenditures included memberships in Iowa Environmental Council, Iowa Conservation Alliance, and REAP Alliance. Expenses associated with the annual meeting totaled \$2,781.32. Dray Carl was the \$500 IA AFS scholarship recipient at ISU. There were banking fees in the report period this was from having a low balance at our State Bank account which is now closed. It was left open due to the outstanding Big Creek checks. Several check holders were contacted and had no desire to cash the check so the outstanding \$75 in checks were removed from the liability of the chapter and the bank account was closed. Other banking fees resulted from US Bank having too many deposits around the annual meeting time. The type of bank account was changed to avoid fees in the future. Total fees were \$31.07. Disbursements for the Mike Mason Memorial (\$522.20) fund included paying for benches at Rathbun and the state fair. Seed money was passed to Missouri (\$4,489.43) from the Warm Water Fish Culture Workshop account.

All account activity resulted in a balance of \$22,100.88 on 2/12/2015. The Warm Water Account has \$3,229.22, Mike Mason Memorial Fund has \$4,572.8 resulting in an AFS available balance of \$14,298.86.

Proposed budget keeps payments to Iowa Environmental Council, REAP Alliance, Iowa Conservation Alliance and 2015 ISU scholarship. Chris Clouse motioned to approve the financial report, Randy Schultz seconded. Unanimous vote, budget approved.

#### **COMMITTEE REPORTS**

**Audit: Ben Dodd.** Ben Dodd reviewed and approved the financial report. Ben Dodd will remain as auditor.

**Membership: Ben Wallace.** Last year had 96 member in the state chapter, 69 dues paying members and 27 student subunit members. Members can pay dues at the annual meeting, directly to Dan Rosauer at any time or through the parent society with their annual renewal. There are 58 members of the parent society in Iowa, 14 are life members. Prices for parent society membership is: \$80 for regular members, \$40 for young professionals, and \$20 for students (7 years max as a student), Life membership costs \$1,000. Rebecca Krogman commented they are looking at changing the young professional cost to 5 years instead of three years.

#### **Best Paper: Chad Dolan**

Chad was not present but Ben Wallace mentioned judging would happen for Iowa people. Turn in papers to Randy Schultz or e-mail directly to Chad.

**Resolutions committee: Vacant.**

There was a motion for nomination \_ Darcy Cashatt, 2<sup>nd</sup> by Allen Pattillo. Ben Wallace described the committee and mentioned that there was not any resolutions over the last few years. Randy Schultz mentioned NCD has a resolution chair that would assist the state chapter with resolutions. Gary Siegwarth questioned our ability to draft resolutions due to our positions with the state. Bob Summerfelt pointed out we are putting out an opinion of the society, not specific people. Jim Wahl pointed out backlash that resulted from Missouri River management resolution. Gary Siegwarth was nominated but declined the nomination. Hearing no nominations Allen Pattillo moved to table discussion and Darcy Cashatt 2<sup>nd</sup>.

**Nominations: Gary Siegwarth**

No Report.

**Program Committee: Lewis Bruce**

No Report

**Student Affairs: Mike Weber**

ISU is looking at multiple faculty hires, including two that started in January. It appears 2 wildlife positions will be getting filled. There are approximately 400 students in Animal Ecology, 24 of them are juniors or seniors in fisheries. There are currently seven fisheries graduate students. Five graduate students presented this year at the Midwest Fish and Wildlife Conference. The Joan Duffy travel award was not given out by Iowa because of a lack of applicants and was one of few states without an award given. Students were encouraged to apply in the future.

**Student Subunit: Nic Rhinehart**

Activities this year included: sampling SMB in Squaw Creek, Mississippi River trip working with Asian Carp, and Topeka Shiner work on the Raccoon River drainage, assisting with gill netting at Big Creek and Rathbun Lake, assisted Story County Conservation with habitat work at county parks. The subunit hosted several classes this past year including: a resume and interview session, fly tying and fly casting. T-shirts are being sold at the meeting for \$25.

**Continuing Education Committee: Clay Pierce.**

Clay provided a handout summarizing the 2014 GIS classes. Clay requested ideas for future classes. Options for this year he has already had are: a statistic refresher, FAMS, Advanced identification of Iowa Fishes, Identification of Iowa Aquatic Invertebrates, and Simulation Modeling for Fisheries Management. July is the best time for classes as ISU classes are not in session.

**Technical Committee Reports****Walleye Technical Committee: Randy Schultz**

Summer meeting will be in Brookings, SD July 20-24 and it will be \$60 to register. There will be a WAE tagging continuing education class at the meeting for an extra \$50. Donna Muhm was awarded for her service as Secretary/Treasurer in the past.

**Centrarchid Technical Committee: Lewis Bruce.**

This was an inactive committee this past year. Lewis is wanting to step down as the CTC chair. Mike Weber volunteered, Allen Pattillo nominated him, Jeff Kopaska 2<sup>nd</sup> and a unanimous vote ensued.



**Rivers and Streams Technical Committee: Greg Gelwicks.**

The 2015 meeting will be in Rock Island, IL. Greg can get you on a list to get updates/e-mails on the meeting. There will likely be a symposium at Midwest this upcoming year. The committee is looking to increase student participation by providing free lodging for students at meetings. Greg would like any river and streams updates to include in annual Iowa report to the committee.

**Salmonid: Vacant**

George Scholten nominated Mike Siepker to chair and Andy Jansen informed the chapter that the Salmonid committee is defunct. George withdrew his nomination.

**Esocid Technical Committee: Jonathan Meerbeek.**

Jonathan provided updates from Iowa at the committee meeting. Notes from other states are on the Esocid Technical Committee website. There will be a symposium March 13-15, 2016 in the Twin Cities Area sponsored by Muskies Inc.

**Ictalurid Technical Committee: Dan Kirby.**

Dan provided a summary of Iowa activities at the meeting at the Midwest conference.

There is a plan started for Catfish 2020 to be held in a southern state.

Rebecca Krogman is the secretary/treasurer for the technical committee commented CCF 2000 spurred research and CCF 2010 filled in a lot of information, now there is a question on the usefulness of holding a CCF 2020 or wait until 2025.

Kim Hawkins asked about the attendance of the technical committees. Jonathan Meerbeek reported one attendee from WI and 3 from MN at the Midwest meeting so there was not a ton of information shared.

**Fish Culture Section: Alan Johnson**

FCS has gained a prominence and respect from the Parent society. It is regarded as one of the most progressive sections (credit to great leadership). Relevant to all disciplines of AFS.

Fisheries magazine theme issue dedicated to "AFS and Aquaculture" topics related to fisheries.

Executive Director Austen asked the Fish Culture Section to take the lead in helping develop the tool kit with Content Director Sarah Gilbert Fox. The tool kit describes the value of AFS and the value of the FCS.

New FCS website.

Fish Culture Literature Clearinghouse: seeking gray literature related to fish culture.

Three sessions at AFS Annual meeting in Portland:

- 1) Managing Challenges and Conflicts Between the Wise Use of Fish Hatcheries and Traditional Production Objectives
- 2) Economic and Social Impacts of Stocking Cultured Fish
- 3) Wild vs. Hatchery Fishes

Investment in the WDAFS Endowment Fund, put money to work. Plan to provide more travel scholarships for students, increase our continuing education efforts, and increase recruiting effort.

HaMAR (Hatcheries and Management of Aquatic Resources). Special edition of NA Journal of Aquaculture, that will appeal to fisheries managers using hatchery reared products.

**NCD: Not able to attend**

**Reservoir Technical committee: Rebecca Krogman**

In the process of developing the committee. Likely to have a symposium at the Midwest meeting. The official e-mail has been set up and is: [NCD.Reservoir@fisheries.org](mailto:NCD.Reservoir@fisheries.org)

**Awards:**

Past President: Ben Wallace

Best Student Paper: Wes Sleeper

Best Professional Paper: Mike Hawkins

NCD award for Mike Hawkins for serving on the Fish Management Section

**Old Business:**

IWILL update, ICA spearheaded the support for IWILL, IA AFS signed letter for support

Gary Siegwarth pointed out that the student subunit may not know what IWILL stands for.

Allen Pattillo moved to move IWILL to new business, Paul Sleeper 2<sup>nd</sup>.

**New Business:**

Andy Jansen and Randy Schultz gave an update on the investment opportunity through the parent society. Parent society is working to set up a way to pool investment money across the chapters for the good of all participants. Goal is a 4-8% return. Doug Austen or Andy Jansen can be contacted for an application.

Chris Clouse suggested an e-mail vote when the opportunity comes up.

Allen Pattillo moved to table discussion on investing, Chris Clouse 2<sup>nd</sup>.

The ability of EXCOM to distribute funds was discussed. The issue came up with a grant request for \$1,000. There is a discrepancy between the bylaws and the grant application. The bylaws allow the EXCOM to spend up to \$500 without a vote of the membership and the maximum grant amount is \$1,000. It was determined that we may need to change the language in the bylaws or grant application to reduce confusion. Several options were listed:

- Change the amount approved by the EXCOM to spend

- Lower the maximum grant amount to \$500

- Add an exception in the bylaws for grants up to \$1,000

Randy Schultz discussed how the bylaws don't mention electronic voting is an option and that if we go through our bylaws we should go through all of the bylaws not just the portion concerning the EXCOM's ability to distribute funds. Any changes to the bylaws have to be voted on by NCD EXCOM.

Scott Gritters mentioned that the intent of the grant was to be set at \$500 so there would be more opportunity to distribute grants instead of a few large grants.

Dan Kirby recommended going through the bylaws as it was last done in 2005.

Jeff Kopaska mentioned bylaws should address electronic voting

A committee will be appointed to go through the bylaws.

Nominations for committee members was opened.

Randy Schultz, Jeff Kopaska and Ben Wallace were nominated and accepted nominations for the committee.

Allen Pattillo moved to vote on nominations, Allen Johnson 2<sup>nd</sup>. All candidates were unanimously approved.

Support of the Student Subunit was discussed including the annual \$500 scholarship. The discussion was tabled quickly.

Maynard Reece prints were discussed.

Jeff Kopaska updated everyone on the process and that the project was most of the way to the fundraising goals to start the project and an anticipated kickoff in May. There is work with the state historical society for display of the prints at the state historical museum and then a goal to take the prints on tour around the state.

#### IA AFS website

Parent society is interested in keeping all formats for state websites the same. The Iowa chapter has not been good at updating their website. A comparison between the “old” and “new” websites was shown.

Allen Pattillo moved to vote on the new website, Randy Schultz 2<sup>nd</sup>. All voted in favor of using the new website and having the parent society maintain the website. The discussion on the website was tabled.

Rebecca Krogman discussed a parent society survey as an opportunity to share opinions on the parent society and why people are not members of the parent society.

Mark Flammang updated everyone on the catfish bowfishing bill currently in the legislature. It was mentioned we may want a position or resolution statement on bowfishing for CCF. The main point of the resolution or position statement is anglers or the Iowa DNR does not appear to be involved in the bill even though it affects both.

Randy Schultz suggested it comes from someone outside the bureau and recommended Allen Pattillo to draft the letter. Flammang nominated Kopaska to resolution committee and it was 2<sup>nd</sup> by George Scholten. Greg Gelwicks and Dan Kirby also accepted nominations.

Jim Wahl wanted to acknowledge Kim Hawkins for putting together the newsletter for the Iowa chapter.

Allen Pattillo moved to adjourn Rebecca Krogman 2<sup>nd</sup> and all were in favor.