



Minnesota Chapter of the American Fisheries Society

Lota-Fisk Gazette

2017 POTMNAFS

President's Message

by Patrick Schmalz, President, MN AFS

Greetings Minnesota Chapter of the American Fisheries Society Membership!

I am excited to be writing my first President's Message for the re-launched MN-AFS Newsletter. It is hard to believe that I am more than $\frac{3}{4}$ of the way through my term as the Chapter's President. I owe a tremendous amount of thanks to the Chapter Executive Committee, in particular Past-President Joel Hoffman, and Secretary-Treasurer Calub Shavlik, for making the transition a smooth one.



Our 50th Annual Meeting, held February 21-23, 2017 in St. Cloud, was a success. We had approximately 130 students and professionals attend. The plenary session included Joel Hofmann discussing the benefits of American Fisheries Society membership. He was followed by Dr. Paul Venturelli, University of Minnesota, whose presentation was titled, "Helping the invisible hand: three innovative techniques and their potential to transform recreational fisheries". Closing out the plenary was Dr. Melissa Wuellner, assistant professor in the Department of Natural Resource Management at South Dakota State University, and NCD past-president. Her presentation was titled, "Millennials, millennials everywhere".

In addition there were more than 40 oral presentations and 15 posters. Work has begun on the 2017 Action Plan adopted at our annual business meeting. The focus of that plan was communication and committees. So far most of

the standing committee chairs have been filled.

The Chapter has been fortunate to have some dedicated committee chairs that were willing to continue in those positions. In addition, new individuals expressed interest in serving the Chapter on committees. We are still looking for an interested

individual to chair the continuing education committee. It has been quite some time since the Chapter has sponsored any continuing education opportunities. We are looking for someone willing to revitalize our continuing education efforts.

Our new communications committee is off and running, starting with this newsletter, and the goal of increasing communication within the Chapter (among professionals, between professionals and students, and beyond).

Please feel free to contact me at any time with questions about the Chapter, or if you are interested in taking a more active role.



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2018 ANNUAL MEETING

Meetings and Events

by Paul Glander, President-Elect, MN AFS

The 2018 annual meeting of the Minnesota Chapter of the American Fisheries Society will be February 6 - 8 at the Kelly Inn in downtown St. Cloud.

Registration - As in recent years, we strongly encourage early registration for the annual meeting through the Chapter web site with payment via PayPal.

- A registration form will soon be available on the Chapter's new web site <https://units.fisheries.org/mnafs/> and/or our old web site <https://sites.google.com/site/mnafsorg/>
- Professional registration will be \$95.00, student registration \$65.00 and one day professional (does not include the banquet) \$70.00
- The registration deadline is January 25, 2018. A \$20.00 late registration fee will be charged after January 25th.

Lodging - A block of rooms have been reserved at the Kelly Inn.

- The rate will be \$93 per night. Make sure to mention the Minnesota Fisheries Society or AFS to get the discounted room rate.
- The hotel indicated that they prefer we call them directly (320/253-0606) to reserve rooms.
- The hotel will hold rooms for us through January 23, 2018.

Volunteering - As always, we will need paper and poster judges along with session moderators at the meeting. If you are interested in volunteering, please check the volunteer box on the registration form or contact Michelle Krecklau at Michelle.Krecklau@state.mn.us



Presentations & Posters - Please consider putting together a presentation or a poster for the meeting. Submissions can encompass the broad diversity within fisheries, but should benefit a range of audiences and aim to advance the science of fisheries ecology, conservation, and management.

- Abstract Submission Form: <https://goo.gl/forms/bMyA7KMiRORMpyas2>
- Abstracts must be submitted by January 12, 2018.
- Notification of accepted abstracts and program time slots will be sent by January 19, 2018.
- If you have any questions please contact Heidi Rantala (heidi.rantala@state.mn.us) or Craig Kelling (craig.kelling@fws.gov).

Elections - Elections will be held for the following MN AFS Officer and Executive Committee positions:

- **2019 President (MN DNR)**
- **MN DNR Representative**
- **Open (NGO, retired, etc...) Representative**

Voting will occur in advance of the meeting and announcement of the winners for each position will occur at the Annual Business Meeting. For more information please contact our Nominations Committee Chair Joel Hoffman (hoffman.joel@epa.gov)

MN Chapter Internet Site - With kudos to Chapter President Patrick Schmalz, incoming Communications Committee Chair Hanna Kruckman and past Communications Committee Chair Eric Altena for their work getting this done, the Chapter is in process of transitioning from a Google based web site maintained by Chapter members to a professional set up and maintained web site hosted through the national AFS or "parent society" office in Maryland. This should help eliminate issues with hacking and other security problems. The URLs for both sites are given earlier in this message. The new site looks great and updating/filling in information there will be a work in progress through 2018. Eventually, those going to the old site will be redirected to the new website.

MEETINGS ARE HIGH PRIORITY WHEN THERE IS FREE FOOD

2017 Meeting Minutes

by *Hanna Kruckman, Communications Chair, MN AFS*

MN AFS Chapter EXCOM Meeting

November 27, 2017

Meeting called to order: 9:04am

Members present: Paul Glander, Calub Shavlik, Craig Kelling, Hanna Kruckman, Patrick Schmalz, Jay Hatch, Mandy Erickson, Joel Hoffman

Quorum: Met (7 of 8)

Agenda: Approved, seconded, passed.

Minutes: August 18, 2017 EXCOM meeting

- Approved, seconded, passed
- Shavlik and Kruckman put together the EXCOM minutes

Treasurer's Report – Calub Shavlik

- Annual AFS meeting in Tampa, FL
 - Schmalz attended and was reimbursed \$1,500
 - Total cost was approximately \$1,850
 - Approximately 10% of President's budget was for travel to this meeting
 - Next year: Glander is planning on attending
- Outstanding award: Joan Duffy student travel award. Could help a student attend the Midwest meeting
- Currently \$800 in the negative but with \$1,900 being carried forward from the President's budget, we are likely to break even this year
- Motion to accept, seconded, approved

President's Report – Patrick Schmalz

- Puerto Rico Chapter AFS Donation discussion – see email from Schmalz on 11-22-17
 - Asking for donations of sponsorship for Southern Division annual meeting March 8-11, 2018 in San Juan, Puerto Rico
 - Help economy by providing travel/tourism to Puerto Rico
 - Motion: donate \$100 to the Southern Division, seconded, and passed
- Benefit of President attending the annual AFS meeting
 - Gatherings for State Chapter Leaders at Annual AFS meeting
- Discussions on:



- Website management and options
- Professional certifications

Committee Reports

Arrangements

- See new business under 2018 Meeting Discussion

Award Committee – Keith Reeves

- Sending out annual requests for special recognition

Communication Committee – Hanna Kruckman

- Moved forward with creating a new website that will be hosted through the parent society AFS multisite
 - Schmalz extended a comment period to the EXCOM and there were no objections
 - This should help eliminate issues with hacking and other security problems
 - <https://units.fisheries.org/mnafs/>
 - Looks great and updating/filling in information will be a work in progress through 2018
 - Eventually the old website (<https://sites.google.com/site/mnafsorg/>) will be redirected to the new website
 - Working closely with Altena to make sure things are up and running for the MNAFS annual meeting in February

Issues – Joel Hoffman

- Nothing new has been brought to the floor
- Oddly quiet period of legislation in St. Paul

Membership – Joel Hoffman

- Difficulties with this year's Membership Committee.
- Goal this fall: name a new committee chair to carry forward into 2018

Nominations – Joel Hoffman

- New President Elect: DNR employee is next
- Encourage female representative
- DNR EXCOM position
 - Erickson has served for two years
- Open – current Jay Hatch
- Let Hoffman know nominations ASAP
- Would like to hold elections by mid-January (within the next six weeks or so)
- Hope to have multiple nominations to make it a competitive process

Resolutions – Brian Nerbonne

- N/A – not on call

Students – Erin Schaeffer, Carolyn Malecha

- N/A – not on call

Fundraising – Jon Hansen/Kristan Maccaroni

- Jon Hansen will be transitioning into the Fundraising Chair position
 - Working on taking over next year and helping Kristan this year
- Request for raffle donations has been sent out
- Sending out letters for donation to businesses
- Working with Bemidji State subunit President, Sam Peterson

Scholarship – Jay Hatch/Mark Hove

- Requests to apply have been sent out. Due date is 12/8/17.
- Review committee is in place.

- Additional involvement
- Erickson shared an opportunity she was involved with to help with local school events/science fairs
 - Printed off a certificate for each student that recognizes fisheries/aquatic science projects
 - Well received. Newspaper recognition for students.
- Encouraging others to increase their involvement and provide support to the community if the opportunity presents itself

Old Business

- MNAFS Newsletter – Craig Kelling
 - Draft will be sent out in mid December
 - Final draft sent out in early January/before the meeting
 - Delay in getting submissions from student subunits
 - The rest of the content is complete
- First call for abstracts coming up soon
 - Deadline last year was about a month before the meeting
 - Set up meeting page on old site to start
 - Will have links to abstract submission and online registration payment options available
- EXCOM meeting in February 2017 – before the meeting last year – Calub Shavlik
- Discussed donating \$500 to help Bemidji State students attend the MNAFS meeting
 - Would like to move forward with the original proposal this spring
 - Previously approved at an EXCOM meeting so okay to move forward

New Business

- 2018 Annual MNAFS Meeting Discussion – Glander
 - February 6-8, 2018 at the Kelly Inn in St. Cloud
 - Notice went out on November 6 to the Google group, which included room rates and contact information for the Kelly Inn
 - Different chairs have been appointed to help organize the meeting
 - Heidi Rantala, Duluth, DNR fisheries will be the new program chair and is assisted by Craig Kelling, Bloomington, FWS
 - Volunteer coordinators are in place
 - Working on registration/conference abstracts online submission options - Altena and Kruckman, Shavlik - registration
 - Every week or two weeks have phone calls with committee chairs to make sure everything is ready to go
 - Kudos to Altena for taking time to meet with Paul about facility options. Included meetings with the Kelly Inn and the Convention Visitor's Bureau
 - Theme or keynote speakers? Open to suggestions.
 - Within the budget, have the ability to bring someone in from a neighboring state
 - Hotel room and registration comped
- Meeting in Fargo early 2019 – Dakota chapters interested in joint meeting
 - Smaller attendance, approximately 80 people
 - Timeframe is good for all Chapters
 - Committee to be set up in the future
 - Possible keynote speaker option

- Bring in someone from a Dakota Chapter to link the 2018 meeting to the 2019 meeting

Meeting adjourned: 9:59am - Motion to accept, seconded, adjourned.

BUDGETING HAS ONLY ONE RULE: DO NOT GO OVER BUDGET

2017 Budget Projection

by Calub Shavlik, Secretary-Treasurer, MN AFS

Category	Description	2017 Budget	Encumbered	Received	Available Balance	Comment
Income						
	Carry Forward Balance (FWLA)	\$1,750.00	\$1,750.00	-	\$0.00	
	Carry Forward Balance (Help Pat's Budget)	\$1,900.00	\$1,900.00	-	\$0.00	
	Interest on investments	\$0.00	-	-	\$0.00	
	<u>2017 Annual Meeting</u>					
	Registration	\$10,450.00	-	\$11,235.00	\$785.00	
	Raffle	\$2,000.00	-	\$1,247.00	\$753.00	
	Sea Grant Award	\$250.00	-	\$250.00	\$0.00	
	New Ulm Scholarship Award	\$500.00	-	\$500.00	\$0.00	
	<u>Total Anticipated Meeting Income</u>	<u>\$13,200.00</u>	-	<u>\$13,232.00</u>	<u>\$32.00</u>	
	Chapter Dues	\$2,000.00	-	\$1,305.31	\$694.69	
	T-Shirt Sale	\$500.00	-	\$480.00	\$20.00	
	Scholarship Fund (Interest Only)	\$100.00	-	\$75.65	\$24.35	

	<u>Total Income</u>	<u>\$19,450.00</u>	<u>\$3,650.00</u>	<u>\$15,092.96</u>	<u>\$707.04</u>	
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Category	Description	2017 Budget	Encumbered	Spent	Available Balance	Comment
Expenses						
	<i><u>Business Functions</u></i>					
	Printing/ Postage/Website	\$50.00	-	\$4.90	\$45.10	
	President's Travel	\$1,500.00	-	\$1,500.00	\$0.00	
	Fish and Wildlife Legislative Alliance Membership	\$3,500.00	\$3,500.00	-	\$0.00	
	Chapter Awards	\$100.00	-	\$50.00	\$50.00	
	<u>Total Business Costs</u>	<u>\$5150.00</u>	<u>\$3,500.00</u>	<u>\$1,554.90</u>	<u>\$95.10</u>	
	<i><u>2017 Annual Meeting</u></i>					
	Facilities and Food	\$9,250.00	-	\$8,395.62	\$854.38	
	Miscellaneous	\$0.00	-	\$1,181.60	\$1,181.60	
	Fundraiser - Raffle Prizes	\$200.00	-	\$207.91	\$7.91	
	Best Student Paper Award	\$300.00	-	\$250.00	\$50.00	
	Student Support (Winners)	\$600.00	-	\$828.84	\$228.84	
	<u>Total Meeting Costs</u>	<u>\$10,350.00</u>	<u>\$0.00</u>	<u>\$10,863.97</u>	<u>\$513.97</u>	
	<i><u>Scholarship and Travel Grants</u></i>					
	Chapter Scholarships	\$1,300.00	-	\$1,300.00	\$0.00	
	Joan Duffy Student Travel Award to	\$200.00	\$200.00	-	\$0.00	

	Midwest					
	Equal Opportunities Section Travel Award to Parent mtg	\$100.00	-	\$100.00	\$0.00	
	State Science Fair Awards	\$750.00	-	\$313.87	\$416.13	
	Hulton Junior Fisheries Biologist Program	\$300.00	-	\$300.00	\$0.00	
	<i><u>Project and Activities</u></i>					
	President and EXCOM Initiatives	\$200.00	-	\$345.00	\$145.00	
	Continuing Education Workshop	-	-	-	\$0.00	
	Insurance	\$150.00	-	-	\$0.00	
	Lake Friendly Award	\$150.00	-	-	\$0.00	
	<u>Total Projects</u>	<u>\$500.00</u>	<u>\$0.00</u>	<u>\$645.00</u>	<u>\$145.00</u>	
	<u>Total Expenditures</u>	<u>\$18,650.00</u>	<u>\$3,700.00</u>	<u>\$15,077.74</u>	<u>\$127.74</u>	
	<u>Overall Budget Balance</u>	<u>\$800.00</u>	<u>\$50.00</u>	<u>\$15.22</u>	<u>\$834.78</u>	

FISHERIES MANAGEMENT: WHERE SCIENCE MEETS SOCIETY

Snapshot: 2017 Annual Meeting

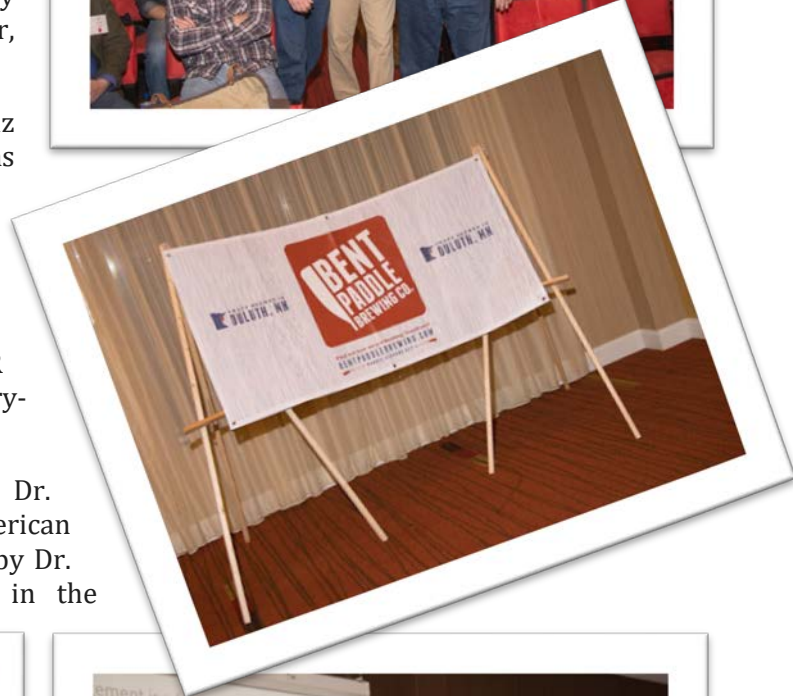
by Patrick Schmalz, President, MN AFS

On February 21-23, 2017, the Minnesota Chapter of the American Fisheries Society held its 50th annual meeting in St. Cloud. The meeting theme was Fisheries Management: Where Science Meets Society.”

Approximately 130 students and professionals attended the meeting which was kicked off by a welcome gathering, with liquid refreshments generously provided by Bent Paddle brewery (thanks again to our Ad-Hops Committee Chair, Brian Borkholder).

At the annual business meeting, Patrick Schmalz (MNDNR Fisheries Research) was installed as President and Paul Glander (US Fish and Wildlife Service) was selected as President-Elect. New executive committee members elected were Neal Mundahl (Winona State University) and Craig Kelling (US Fish and Wildlife Service). Calub Shavik (MNDNR Fisheries) was elected to his 6 th term as Secretary-Treasurer)

The plenary session began with past-president Dr. Joel Hofmann discussing the benefits of American Fisheries Society membership. He was followed by Dr. Paul Venturelli, “almost Associate” Professor in the



Department of Fisheries, Wildlife, and Conservation Biology at the University of Minnesota whose presentation was titled, "Helping the invisible hand: three innovative techniques and their potential to transform recreational fisheries." Closing out the plenary was Dr. Melissa Wuellner, assistant professor in the Department of Natural Resource Management at South Dakota State University, and AFS North Central Division past-president. Her presentation was titled, "Millennials, millennials everywhere".



Over the following day, more than 40 oral presentations and 15 poster presentations were given. To cap it off, the evening featured an awards banquet and impressive raffle organized by the University of Minnesota student sub-unit, aided by Kristan Maccaroni. Special thanks to Eric Altana, Owen Baird, Mandy Erickson, Gretchen Hansen, Jon Hansen, Michelle Krecklau, Christy Meredith, Keith Reeves, and Calub Shavlik for their time and energy to organize a fantastic meeting!



HONORING THE EFFORTS OF VOLUNTEERS

2017 Award Winners



Minnesota Chapter Past-President Joel Hoffman (left) receives recognition for his service to the chapter from President Patrick Schmalz.



Calub Shavlik (right) is presented with a Special Recognition Award for his 10 years serving as Minnesota Chapter Secretary-Treasurer.



Keith Reeves (left) presenting the MN Sea Grant Best Student Paper award to Joshua Poole.



Keith Reeves (right) presenting the Best Student Poster award to Steven Hauschildt.

REWARDING OUR FUTURE PROFESSIONALS

2017 Scholarship Recipients



Keith Reeves presenting certificates to our scholarship recipients (left to right) Briana Burke, Alayna Mackiewicz, and Bailey Duxbury.

SUBUNIT HAPPENINGS

Student Sub-Unit Updates

by Pheng Lor, Vice President of Fisheries, University of Minnesota – Fisheries, Wildlife, and Conservation Club

The Fisheries, Wildlife, and Conservation Club (FWCB) family grew even bigger this past fall with over 70 new members of the new incoming freshman! This past summer we assisted the UMN veterinary students in assessing the health of lakes, near the Boundary Waters and Lake Superior, with various levels of anthropogenic impact. Over 200 plus walleyes and yellow perch were weighed, measured, and sampled for parasites. In the fall, we had several events that occurred ranging from guest speakers, CWD deer hunt check stations, and owl and raptor banding. For guest speakers, we had a few people from MNDNR and other biologists in Minnesota share their experiences in the field. In the month of October, we helped the MNDNR check for CWD around the metro area and various hunting sites throughout Minnesota. Also in the month of October, we banded owls at the Weaver Dunes Field Station and hawks near the Duluth area. Lastly, we are excited about the upcoming events during the winter and spring. Some events we are looking forward to are lynx tracking in Ely and Grand Marais, seine netting at the Minnesota Valley National Wildlife Refuge, Saint Croix canoeing, small mammal trapping, and more!



UNIVERSITY OF MINNESOTA



by Quinnlan Smith, President, University of Minnesota – Duluth, AFS Student Sub-unit

The American Fisheries Society sub-unit at UMD has enjoyed a great semester of activities and hosting local biologists and professors from around the area. Each year, our sub-unit aims to help with a beach cleanup, sponsored by Minnesota Sea Grant, on Park Point in Duluth. This area is a wonderful beach that is used often, and so we always want to do our best to make sure it's clean for everyone to enjoy. We worked with Sea Grant and a local Cub Scouts Troop to help clean up the beach this October, and are pleased to report that the beach was spectacularly clean! Afterwards we enjoyed a cook out and some quality time outdoors. When the UMD sub-unit isn't out volunteering, we enjoy hosting local biologists and professors, to learn more about what they do, and also to learn more about what we can do to get involved. We have so far hosted Dr. Joel Hoffman from the EPA-Mid-continent Ecology Division, Emma Pardini who works as an educator at the Great Lakes Aquarium, and Dr. Bryan Matthias, who is a post-doctoral researcher here at UMD. Doug Jensen from Minnesota Sea Grant will give the final presentation of the semester on invasive species in the Great Lakes. These presenters offered us help and advice from different aspects of the biological field. Emma Pardini helped to demonstrate an educational kit available from the Great Lakes Aquarium, to help with our outreach planned for the spring 2018 semester. Last spring semester the UMD sub-unit volunteered at Myers-Wilkins elementary school in Duluth, where an afterschool club of scientists were taught about the different types of fish that live in Lake Superior. The sub-unit hopes to repeat this outreach this spring semester. Also planned for the spring 2018 semester is our annual trip to the Great Lakes Aquarium, an ice fishing trip in the Duluth harbor, and a trip to the Lake Superior Estuarium with Deanna Erickson.



UNIVERSITY OF MINNESOTA DULUTH

Driven to DiscoverSM



by Samuel Peterson, President, Bemidji State University, AFS Student Sub-unit

The BSU AFS Subunit has had a plethora of fun and exciting hands-on experiences in the fisheries field. With a resurgence of new students each year, our organization is now at 23 members, and growing. We kicked off the year with a pink salmon trip via rod and reel along the north shore of Lake Superior to aid in our Ichthyology preserved specimen collection. We then continued data collection for our long-term IBI site on Turtle River. The collected fish were counted, identified to their lowest taxonomic level, and then released. This project observes species richness along three sites to aid in undergraduate research. Collected efforts made by the MNDNR gave us another chance this year to PIT-tag juvenile muskellunge for their long-term stocking program throughout Minnesota's northwest region. The staff's knowledge base, hands-on experience, and tour of Bemidji's hatchery was another great investment for our subunit. As winter rolled in, temperatures dropped and Lake Whitefish soon began their spawning run up the Mississippi River. The Power Dam in Beltrami County inhibited further movement, allowing our Subunit a brand new opportunity to collect potential specimens to aid in our Ichthyology collection. Our first outing yielded success with six captured via seine hauls. While the second day proved less successful, a separate group backpack electro-shocked a mixed slough of species including horny head chubs, blacknose dace, and burbot. Last spring we also aided Urbank Bait Co. by netting and stripping male and female white suckers of milt and eggs by means of an extended ¼-inch mesh size seine haul along the Mississippi River. A total of 12 Subunit members joined in this annual weeklong activity, totaling an estimated 14 hauls and handled over 4,000 white suckers.

Throughout 2017, our Subunit was also able to aid in multiple volunteer efforts. Bemidji State's annual 5th grade field trip provided us the opportunity to inform students about overarching themes of aquatic biology, limnology, and fisheries science. We were also fortunate to help give back to the community by volunteering our time to help pick up trash, and other inorganic material along Lake Bemidji's shoreline. Spring of 2018 yields a diverse amount of activities including DNR speakers, a Great Lakes Aquarium field trip, and our very own aquatic biology ice-house for winter research and facilitation of our annual perch ice-fishing tournament fundraiser. As we look forward, Bemidji State Subunit's future is bright and stronger than ever!



NEVER STOP WONDERING AND LEARNING

Member Spotlight

by Craig Kelling, Federal Representative, MN AFS

This issue's member spotlight: Neal Mundahl

What is a favorite memory from your field work?

I have two memories that stand out from the others. One occurred back in the mid-1980s when I was teaching a Limnology class in southwestern Ohio. We were on the university pontoon boat on a local reservoir, slowly motoring back to the marina. YOY gizzard shad were everywhere, and they all jumped out of the water in unison whenever a student banged loudly on the boat deck. For some reason, all of the students moved toward the bow at the same time, causing the pontoons to submarine. The pontoons only went down so far before the boat shot upward and backward like a cork popping out of a bottle. No students "went swimming", but they learned a valuable lesson about staying in place while on a moving boat.



The second memory was from a stream electrofishing session within the city limits of Winona during 2006. Three students and I were just finishing up electrofishing the final pool of a stream reach, and had just located a submerged bicycle (too rusted to salvage). The stream suddenly was filled with large, stunned brown trout. We only captured three fish, but two weighed in at 3 pounds and the 3rd weighed > 8 pounds. I had passed by that stream pool thousands of times in the previous 17 years, but never suspected that it held so many big trout. No, I'm not telling anyone where that pool is located!

What advice would you give to young fisheries professionals just getting started?

I would advise that young fisheries professionals take every opportunity to learn from their professional elders. I benefited greatly from my early interactions with renowned biologists in the years prior to their retirement. In particular, I am indebted to Cal Fremling. He got me involved with local lake management and demonstrated how to interact with and unite diverse user groups to work toward a common goal.

In addition, young professionals should continue updating their skill sets (computer software, statistics, writing, speaking) as much as time allows. Young professionals also should continually work to broaden their understanding of all things non-fish in nature; learn those birds and plants,

become familiar with aquatic insect identification and taxonomy, and continually display a curiosity for the natural world. In a nutshell, never stop wondering and learning.



Editor

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Minnesota Chapter Officers

President: Patrick Schmalz, MN DNR Fisheries, Duluth

President - Elect: Paul Glander, U.S. Fish and Wildlife Service, Bloomington

Past President: Joel Hoffman, U.S. Environmental Protection Agency, Duluth

Secretary-Treasurer: Calub Shavlik, MN DNR Fisheries, Park Rapids

Academic Representative: Neal Mundahl, Winona State University, Winona

Federal Representative: Craig Kelling, U.S. Fish and Wildlife Service, Bloomington

Open Representative: Jay Hatch, University of Minnesota Emeritus, Twin Cities

Lota-Fisk Gazette is the biannual newsletter of the Minnesota Chapter of the American Fisheries Society. Material in this newsletter may be reprinted from other AFS websites. Deadline for material for the next issue is July 1st

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