



### Chapter Officers

President: Greg Pitchford

President Elect: Tom Priesendorf

Secretary: Dave Michaelson

Treasurer: Alex Prentice

Past President: Amanda  
Rosenberger

### Committee Chairs

Anglers with Disabilities: Mary  
Scott

Awards: Amanda Rosenberger

Chapter Historians:

Joe G. Dillard (Emeritus)

Vince Travnichek

Craig Paukert

Continuing Education:

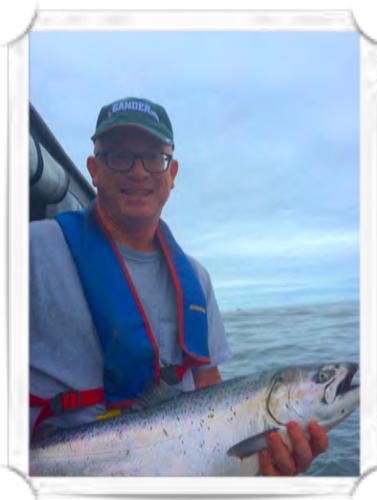
Andy Turner

Brad Farwell

Jodi (Joanna) Whittier

Finance: Greg Pitchford

## Message From the President



I used to assume that people kept time with clocks and calendars. What I have learned is we keep time by significant events in our lives. Most of us remember where we were on September 11, 2001 when the Twin Towers were attacked. I was headed to work when I heard that a plane had crashed into one of the Towers. I was at the office when the second tower was hit, followed by the attack on

the Pentagon and the crash of the fourth plane. I was on Interstate 57 in Southern Illinois when I heard about the latest mass shooting in Orlando, Florida. Two friends and I were traveling home from a white water trip on the Chattooga River in Georgia. I also remember where I was on September 26, 2001. I was at the Fountain Grove Conservation Area for a three day wetland review. At that time, the country was still in shock and grieving from the Twin Towers attack. The mood of the room was somber, and to be honest, we wondered just how important our jobs were in the big scheme of things. I'll never forget Rob Leonard, a long time wetland manager and former Navy Seal standing up to address the group. He said, "I know what we are doing today may not seem that important in light of recent events. But it is. The work we do is important. The best thing we can do to fight terror right now is to continue to do good work."

Information Technology:

Website: Kat Lackman &  
John Fantz

Newsletter:

Emily Tracy-Smith  
Dan Metcalf

Legislative and Environmental  
Concerns: Mark Zurbrick

Membership: Jennifer Campbell-  
Allison

MNRC Steering: John Ackerson

Publicity: Trish Yasger

Rivers and Streams

Chair: Eric Rahm

Student Support: Jennifer  
Girondo

Anglers with Disabilities: Mary  
Scott

Student Subunits:

Missouri State University -  
Springfield: Jesse Kelly

University of Central Missouri -  
Warrensburg: Sean Lorenz

University of Missouri - Columbia:  
Bill Shiener

Southeast Missouri State  
University - Cape Girardeau: Tyler  
Ham

He sat down, and we spent the next three days doing good work. I like to think that those three days were a small act of defiance against evil.



The work we do is important, probably more so now than ever. As the world changes at the speed of light and news of tragedy spreads quicker than ever, people are going to need wild places and wild things. The sound and smell of a river, the tug of a fish, and the retelling of the stories with friends and family are going to be important as people try to process and heal from tragic events that seem to be happening all too frequently. We do important work, let's not forget that.

As my role as President, the last five months have had me totally immersed in the topic of undergraduate fisheries education in Missouri. We have some challenges ahead as we partner with universities to reinvigorate their fisheries programs. This is going to be a multi-year endeavor, but it is one that MOAFS can impact.

Thanks go to Mark Zurbrick, Amanda Rosenberger, and Tom Priesendorf for their help this spring. We have a good first draft of a white paper that will be shared with the membership prior to the next business meeting. Some of you have expressed interest in helping with this. You will get your chance this fall, as we seek input on the paper and look for direction on how to proceed.

While I have been totally focused on the white paper, other members have been updating our bylaws, mentoring students, introducing people with disabilities to fishing, and working hard to organize the AFS Annual Meeting in Kansas City. We can use your help. There are lots of opportunities to help with the Kansas City meeting. We have one or two more fishing events scheduled. If you are interested in helping, please let me know. Thanks for all you do on behalf of the MOAFS and Missouri's aquatic resources. It is truly important work.

*Greg Pitchford*



# Treasury Report - Summer 2016

Prepared by: Alex Prentice

Budget year 2016 looks promising for MOAFS and the Student Support Trust Fund. The MNRC fundraisers (silent auction, outdoor trips, and pint glass sales) netted a \$1,650.69 profit for the Chapter. The Chapter has also collected \$430.00 for annual and lifetime memberships, thus far. MOAFS Operational accounts, as of May 31<sup>st</sup>, total \$13,803.88.

We have completed implementation of the laddered certificate of deposit (CD) strategy and now have four CDs. There has been a cumulative gain of \$589.73 on the CDs.

We are continuing the SSTF investment plan as outlined at the MOAFS annual meeting. A Vanguard mutual fund account totaling \$45,000 was established in April 2015 along with a buffer fund of \$5,000 in the money market account. Since inception, the mutual funds have experienced a cumulative loss of \$918.06, but with recent gains over the past quarter things are looking promising. Since January of 2016 the funds have experienced a 4.19% gain totaling \$1,773.69.

Account	Current Balance*	Change
MOAFS Operational Share	\$ 8,487.18	
MOAFS Operational Checking	\$ 5,316.70	
MOAFS Special Projects Checking (Gun Raffle)	\$ 2,379.98	
SSTF Money Market (Buffer Fund)	\$ 5,006.39	
SSTF Checking	\$ 2,821.88	
SSTF CD 1479	\$ 12,815.89	\$ 318.89
SSTF CD 1968	\$ 12,641.41	\$ 141.41
SSTF CD 2381	\$ 12,551.45	\$ 51.45
SSTF CD 2382	\$ 12,580.98	\$ 80.98
<b>Cumulative CD Value</b>	<b>\$ 50,589.73</b>	<b>\$ 589.73</b>
SSTF Mutual Fund		
Stock market Index Fund	\$ 34,041.51	-0.23%
International Stock Index Fund	\$ 10,040.43	-1.07%
<b>Cumulative Returns YTD (Jan-June 2016)</b>	<b>\$ 1,773.69</b>	<b>+4.19</b>

## Student Support Report - Summer 2016

*Prepared by: Jen Girondo*

MOAFS' Student Support Committee has been busy awarding recognition for outstanding student presentations at MNRC, and our annual scholarships, as well as planning for student activities at the annual AFS meeting in KC.

Award winners include:

- Best student poster: Kayla Key (MU)
- Best student paper: Jacob Schwoerer (MU)
- Future Professionals Scholarship: Joe Chilton (MSU)
- Student Achievement Award: Corey Dunn (MU)
- Duffy Memorial Travel Award: Chris Schwinghamer (SEMO)

A few items about the student events in KC for newsletter readers:

- Aug. 23 is the day geared towards students, with a Wild Jobs Cafe being offered all day, speed-mentoring session that afternoon, and a student social that evening, in addition to great symposia and contributed papers throughout the conference.
- Student workers are needed throughout the conference and can get paid for 4 hour shifts throughout the meeting. Contact Greg Pitchford ([greg\\_pitchford@mdc.mo.gov](mailto:greg_pitchford@mdc.mo.gov)) for more info.
- Fisheries professional mentors will be needed Tues. afternoon to help make the speed mentoring/networking event successful... if your schedule allows you to participate, please consider giving an hour of your time to share your story with students, as they rotate through 10 minute sessions with folks from various fisheries backgrounds (think speed dating, just with students/mentors... there will be opportunities to follow up or finish conversations later!) Contact Jen Girondo ([moafsstudents@gmail.com](mailto:moafsstudents@gmail.com)) or Bob DiStefano ([bob.distefano@mdc.mo.gov](mailto:bob.distefano@mdc.mo.gov)) to sign up.
- If you have job opportunities or internships that you'd like to advertise, we will also have a job board area to post that information. (yes, it's kind of odd timing to be thinking about hiring for jobs at the end of summer, but if there's annual seasonal work you might want to advertise for next summer, consider submitting those items to Jen Girondo ([moafsstudents@gmail.com](mailto:moafsstudents@gmail.com)).



## Continuing Education Report - Summer 2016

*Prepared by: Brad Farwell and Andy Turner*

The Continuing Education Committee has been working with the National AFS committee to organize and support the continuing education courses that will be provided at the annual meeting on August 20th and 21st. There is a wide range of courses available and a list of the offerings can be found at <http://2016.fisheries.org/continuing-education-workshops/>

Specifically, the MOAFS continuing education committee has been working with Susan Steffen to develop and provide a course covering "Human Dimensions and Conflict Resolution in Fisheries". An outline of the course and associated fees are below:

Instructor: Susan Steffen, Fish and Wildlife Biologist, Kansas Department of Wildlife, Parks and Tourism

Conflict resolution skills are required at all levels of the fisheries profession and fisheries management and research increasingly relies on human dimensions data to be successful. This course will cover communication analytics, conflict resolution, and future trends in human dimensions related to fisheries. These topics will be related to examples of applied human dimensions as they have been used in projects related to commercial bait fish, float line fishing, and a Walleye initiative. Overall, this course will provide an overview of the critical human dimensions and conflict resolution considerations that play an important role in successful fisheries management and research.

Fees:

- Student Member: \$75
- Student Non-Member or Young Professional Member: \$100
- Member: \$125
- Non-Member: \$200

Brad and Andy have also been serving on the North Central Division of AFS Continuing Education Committee organizing workshops for the Midwest Fish and Wildlife conference. This committee is working toward providing more online training and coordinating implementation of this program.

# Historian Report - Summer 2016

Prepared by Joe Dillard



# Historian Report - Summer 2016 (Year One 1963)

Prepared by Joe Dillard

## MOAFS - Year One (1963)\*

Compiled by Joe G. Dillard, MOAFS Historian Emeritus

The first meeting of what was to become MOAFS was held on the University of Missouri- Columbia Campus in 1963 and was billed as the Missouri Fisheries Workers Conference. Mr. John L. Funk (in charge of the Fisheries Research Section of MDC) stated that, "It was time to get the aquatic workers of Missouri organized to: promote communication, increase professionalism, share our fisheries information with others, and to better serve local AFS members."

### Officers:

President - Mr. John L. Funk, General Chairman

### Committee Chairs:

Arrangements - Dr. Arthur Witt, Jr. (University of Missouri Fisheries Professor)

Program - Dr. Robert S. Campbell (University of Missouri Limnology Professor)

Promotion - Mr. Paul G. Barnickol (Chief of Fisheries, Missouri Department of Conservation)

Number of Members: The Missouri Chapter had not been officially formed yet, but there were 37 American Fisheries Society members who lived in the state at that time.

Business Meeting: February 21 - Student Union, University of Missouri - Columbia.

Attendance at Business Meeting: An estimated 90-100 aquatic workers and others attended this first meeting.

No dues collected. No awards or resolutions presented.

## 1963 Meeting Highlights

Conference Theme: None

Fisheries presentations:

- 1) "Commercial Rearing of Channel Catfish", by James Kahrs
- 2) "Reproduction and Survival of Smallmouth Bass in Little Saline Creek", by William L. Pflieger
- 3) "Pollution and its Effects on Missouri Fishes", by Herbert J. Fisher
- 4) "The Fish Populations of Two Ozark Streams", by Otto F. Fajen
- 5) "Harvest of Fish from Three Missouri Reservoirs and their Tailwaters", by James P. Fry
- 6) "General Symptoms and Treatments of Fish Diseases", by Ronald W. Goede

Business Meeting Notes:

The obvious highlight of 1963 was organizing and conducting this very first meeting of aquatic workers in Missouri. The Missouri Chapter of the Wildlife Society (Chartered in 1962) held its meeting the day before so those who chose could attend both meetings.

The basic idea for this conference arose from a discussion of how to resolve some perceived differences of philosophy and opinion between the fisheries biologists and the hatchery workers in the state.

### 1963 Meeting Highlights (Cont.)

John L. Funk, Superintendent of Fisheries Research and Training for the Fisheries Division and P.G. Barnickol, Superintendent of Fisheries for the Missouri Conservation Commission (now called the Missouri Department of Conservation) conferred and agreed that general lack of communication and lack of recognition of common goals were chief causes of the differences. Thus, one way to attack the problem would be to have an annual Missouri Fisheries Conference.

This Missouri Fisheries Conference, the precursor of the Chapter, was co-sponsored by the Fisheries Section of the "Missouri Conservation Commission" (the official name of the Missouri Department at that time) and the Cooperative Fishery Unit of the University of Missouri. (Pre-meeting publicity indicated that the conference was supported by the Missouri membership of the American Fisheries Society.) One of the meeting highlights was the Welcome Address given by P.G. Barnickol, who was Vice-President of the North Central Division of the AFS at that time. A follow-up questionnaire after the meeting helped to evaluate this first meeting and to plan for successive ones.

\*This information was taken from extant records of the meetings as well as excom or other mid-year planning meetings and reflect what was reported or recorded. The information on "Fisheries Presentations" was taken from the printed program (as printed including capitalization inconsistencies) and do not necessarily reflect what was or was not actually presented (for instance there were some late minute cancellations and substitutions to the papers presented).



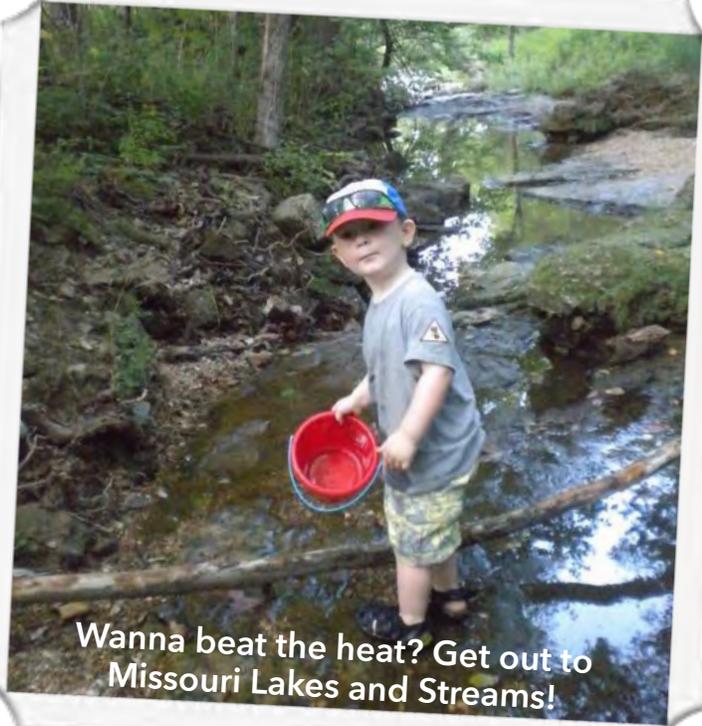
# Membership Committee Report-Summer 2016

Prepared by: Jennifer Campbell

*Happy Summer From the  
Membership Committee!*

Lifetime memberships will renew automatically in the new year. All others may be renewed at [www.moafs.org/membership](http://www.moafs.org/membership) or through the Society.

Ready to take the next step through committee service? Questions about your membership? Contact me at: [Jennifer.Campbell@mdc.mo.gov](mailto:Jennifer.Campbell@mdc.mo.gov) or 573-522-4115x3159



Wanna beat the heat? Get out to  
Missouri Lakes and Streams!



## Results of the 2016 Session of the Missouri Legislature

Prepared by: M.A. Zurbrick

Nineteen bills were introduced during the 71-day 2016 legislative session that could have had possible impacts on the Departments of Conservation and Natural Resources. Thirteen of these bills originated in the House and six in the Senate. Bills regarding water well restrictions, wildlife damage compensation, composition of the conservation commission, and the right to hunt and fish, are reintroductions of bills that failed to gain approval in past sessions of the Missouri Legislature.

With one notable exception (see HB1713) none of the legislation has substantial or direct impacts to waters and fisheries of the state, however, most of the bills negatively impact how the MDNR or MDC operates. A dozen bills challenged MDC's constitutional authority.

At the end of the 2016 session; 10 bills failed to receive a public hearing after being assigned to a committee, 4 bills received hearings, but were not voted out of committee, 2 bills were voted out of committee but were not debated and voted on by the entire House, 2 bills managed to pass through the originating chamber and managed to gain a hearing in the other chamber but never received a full vote of the other chamber. On Tuesday 6-28-2016, HB1713 (which passed in both chambers) was vetoed by Governor Nixon. Here is the link to view the veto letter on-line <https://governor.mo.gov/news/legislative-actions> go to House bill tab and then scroll down to HB1713. **We urge the MOAFS membership to contact their respective representatives and senator to urge them not to override the veto.**

### *Missouri Department of Natural Resources Related*

**Impact Analysis** - HB 1375 (Miller) would impact how the MDNR promulgates and evaluates any changes to state water quality standards. Currently, an economic and environmental impact analysis is required for change in WQ standards greater than 25% and had to be evaluated at the 8-digit watershed level, the new law would require an economic and environmental impact analysis for any change in WQ standards and must be done to the 12-digit watershed level. This legislation receive a public hearing in early April, but was not voted out of committee and onto the floor for consideration of all House members.

**Eleven Point Park** - HB1782 and 2187 (Barnes and Ross) would require MDNR to sell property bought from willing sellers with the intent create a new state park along the Eleven Point River. The sponsors contend that the MDNR should not have used Ameren/Taum Sauk settlement monies for this purchase. Both bills received public hearings in late January and HB2187 managed to pass in the House by mid-February on a 117 yes to 33 no vote. The following week, the bill received a hearing by the Senate committee and was voted out of committee as do pass. Near the end of April the bill was placed on the informal calendar for a full vote of the Senate, where it remained at the end of the session.

## *Missouri Department of Natural Resources Related (Cont.)*

**ATV on Katy** - HB2047 (Houghton) would allow ATV and golf carts to be used on the Katy Trail by “disabled” (this is not defined) and anyone over Age 55 on every other Wednesday. This bill received a public hearing in early February and after a number of amendments passed out of committee as do pass in mid-April; however, the bill never received a vote of the full House.

**Water Well Restrictions** - HB 1738 (Brattin) restricts political subdivisions from preventing private well construction unless MDNR can show that groundwater in the area is threatened. This bill received a public hearing in February that resulted in a number of amendments; however, this bill did not make it to a final vote on the floor of the House before the session ended.

**Clean Water Commission Membership** – HB1713 (Remole) This bill started out simply a stating that the DNR would provide information regarding advanced technologies to upgrade existing lagoon-based wastewater systems. The bill received a public hearing in the House Energy and Environment committee and after further review was passed by the full House without any changes regarding the composition of the seven-member Clean Water Commission, on a 118 to 38 vote. The composition of the commission was not brought up during the public hearing of the bill by the Senate’s Commerce, Energy and Environment committee in mid-April. The current law reasonably requires that the Clean Water Commission be composed of at least four members of the commission be represented by members of the general public, with one member having a knowledge of publicly-owned wastewater systems, and no more than two members representing agriculture, industry, and mining interests which the commission typically oversees and regulates. The mischief began on May 5, when Senator Munzlinger introduced an amendment on the floor of the Senate changing the commission’s composition that would allow future governors to appoint up to six members representing agriculture, mining and other business interests... essentially excluding the general public from having a voice in the stewardship of Missouri’s waters. The general public and conservation organizations had no knowledge or voice regarding this last minute manipulation that could basically allow the foxes (i.e. polluters) to guard the hen house (i.e. Missouri’s lakes and streams). This ill-advised amendment passed in the Senate on a 31 to 1 vote and was then sent back to the House on the May 11, where it passed as amended by a vote of 109 to 42. On May 25, Representative Moon filed a constitutional objection claiming that HB1713 violates Article III, sections 21 and 23 of the Missouri Constitution which states “that no bill shall be so amended in its passage through either house as to change its original purpose” and “no bill shall contain more than one subject which shall be clearly expressed in its title”. None-the-less the bill with this “dirty” amendment was signed by the House Speaker and Senate President Pro Tem and was sent to the governor on the same day. The Governor Nixon has 45 days in which to sign or veto the bill. If he chooses to do neither, the bill will still become law. On June 24, the MOAFS sent a letter to the governor asking that he veto the bill. The Conservation Federation of Missouri has also asked the governor to veto this bill.

*Missouri Department of Conservation Related*

**Captive Elk Definition** - HB 1415 and 1417 (Houghton) change wording regarding captive deer and elk for sale tax purposes. Neither of these bills were assigned to a committee until the last week of the legislative session.

**Wildlife Damage** - HB1529 and HB1374 (Brown and Miller) requires MDC to pay \$500 for vehicle damaged by wildlife, or make MDC liable for any damage caused by otter, elk, or bear. Bills on the subject of compensation for damage by wildlife have been introduced nearly every year, without making any headway. This year was no different, with neither bill being assigned to a committee until the last week of the session.

**Landowner Acreage** - HB1846 and HB2260 (Franklin and Jones) reduces the ownership requirement to gain landowner permits to 5 acres and grants resident permit status to any non-resident who lives in another state but works in Missouri or pays Missouri income taxes. HB1846 received a public hearing in mid-February but did not pass out of committee. HB2260 wasn't assigned to a committee until mid-April and never received a public hearing.

**ATV on MDC** - HB1790 (Rone) allows anyone age 60 or over to use an ATV on MDC areas to hunt and fish. This bill was assigned to a committee, but never received a hearing.

**Conservation Commission** - SJR19 (Munzlinger) would change the MDC Commission from four at-large commissioners two of each political party to eight regional commissioners and one at large commissioner of which five can be of one party. This seemingly perennial attack on MDC's constitutional authority received a public hearing in mid-January and pass quickly out of the Agriculture, Food Production and Outdoor Resources committee which Senator Munzlinger chairs. After debate and a number of amendments on the Senate floor, a revised bill that increased the number of commissioners to six, with three from each party, was passed in the Senate on a 22 for and 10 against vote in early February. However, once the bill passed to the House it was not assigned to a committee until late April and did not receive a public hearing until early May. The bill received no further attention from the committee by the end of the session.

## *Missouri Department of Conservation Related (Cont.)*

**Feral Hogs** - SB617 (Wallingford) stiffens the penalties for people transporting and releasing feral hogs; however, it also allows landowners to hunt feral hogs using spotlights. This bill received a public hearing in mid-January; however, it was never voted out of committee.

**Conservation Sales Tax** – HJR105 (Moon) proposed that the 1/8 cent sales tax for conservation come up for a vote of the people every five years. This joint resolution was not assigned to a committee until mid-May, and did not receive a public hearing.

**Right to Hunt and Fish** – HJR 90 (McGaugh) A version of this bill has made an appearance nearly every year in the recent past. While the bill's title appears benign, the actual wording would restrict MDC's constitutional authority to regulate who, when, and how folks can hunt and fish in Missouri. This year's effort did not proceed beyond being assigned to a committee late in the legislative session, and did not receive a public hearing.

**Land Purchase and Property Tax Exemption**– HJR102 and HJR 103 (Ross) These resolution would repeal the authority of the MDC to purchase land and require the MDC and DNR to pay property taxes on the public lands they manage. Neither bill made it beyond being assigned to a committee.

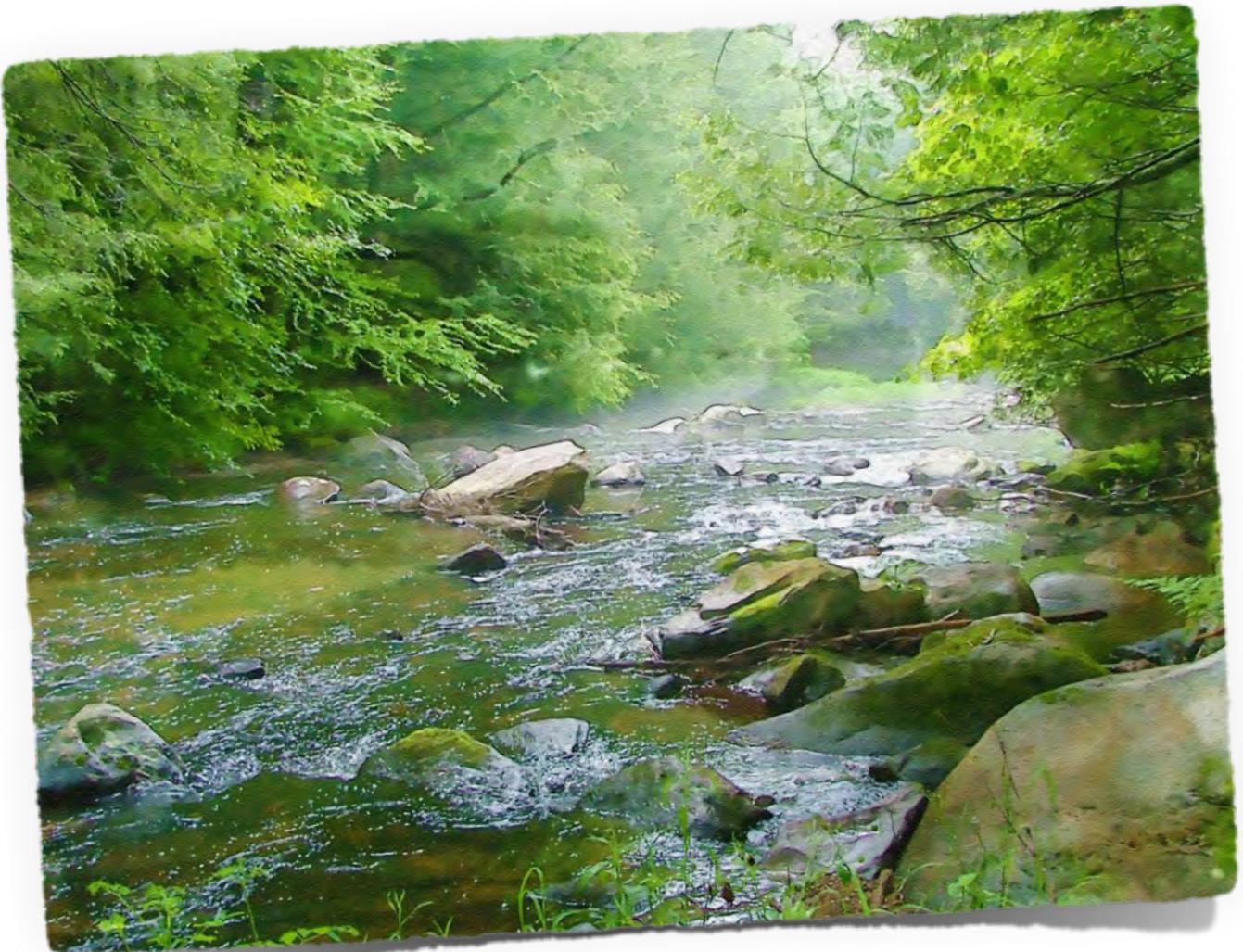
### *A Closing Thought*

It is interesting to note that every sponsor of the 19 aforementioned conservation and natural resource related bills is a Republican, with 40 of the 43 co-sponsors also being Republicans. These statistics are not offered as a condemnation of every Republican serving in the Missouri legislature nor automatic praise for every Democrat. As biologists and scientists we all know that correlation does not necessarily imply causation. What the numbers do say, is that every member of the MOAFS should go on the House and Senate Joint Bill Tracker at <http://www.house.mo.gov/billcentral.aspx> and see how their local senator or representative has voted on conservation and natural resource issues prior to going into the voting booth in November.

## Rivers and Streams Report - Summer 2016

Prepared by Eric Rahm

We are hoping to have an opportunity to assist with the Hydrilla efforts and Float the James River in August or September. Contact the Rivers and Streams Committee Chair - Eric Rahm for more information: [Eric.Rahm@mdc.mo.gov](mailto:Eric.Rahm@mdc.mo.gov)



"All the News That's Fit to Print"

# The New York Times

Late Edition

Today, sunny to partly cloudy; high 72. Tonight, partly cloudy; low 58. Tomorrow, cloudy with possible afternoon showers; high 78. Weather map is on Page 1.

NEW YORK, SUNDAY, JUNE 7, 2015

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\$5 forward charge per New York metropolitan area

\$5.1



## Fourth Annual: A Day at the 'ol Trout Park

The folks were invited, food donated, trout stocked which lead to a perfect day for the 4th Annual A day at the Trout Park". This event caters to disabled anglers and Maramec Spring Trout Park was the place to be for this enjoyable day of fishing. This popular event was sponsored by The James Foundation, Maramec Spring Trout Park, Missouri Chapter of the



American Fisheries Society (MOAFS), The Missouri Department of Conservation (MDC), and Choices for People Center. This year several fish were caught so there will be many stories to share. The day was filled with smiles and excitement and all who participated appreciated the hard work and opportunity to be a part of it. Several folks assisted with the activities during the event. Bob Pellegrin from Choices worked with Mary Scott (MOAFS/MDC) to organize the day. Several volunteers assisted with fishing, baiting hooks, pole maintenance, cooking lunch and cleaning up. A big thank you goes out to all who assisted: Nick Girondo; Aaron Evans; Kenda Flores; Wes Swee; Kyle Case; Angie Volmert; Bob Pellegrin and Choices staff; and Becky and Steve McMurray. These valuable volunteers are the backbone of the day. Bait was provided by Don Bauer from Double D Baits. Don and his side kick Charlie also assisted with the fishing. Wes and Kyle stocked extra fish in the spring that day and those fishing were happy!

## Programs For Adaptive and Disabled Anglers Continue to Offer Great Events

By Margaret Slayton St. Joseph News-Press Jul 16, 2016



The Adaptive Anglers Fishing Derby will take place for the third year next weekend at Hartell Conservation Area near Plattsburg, Missouri, to offer anglers of any age or ability level the opportunity to fish for free. The event is being held by the Missouri Health Professions Consortium Occupational Therapy Assistant Program. The occupational therapy program is offered

Continued...

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Late Edition

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to students in five colleges in the state. The fishing derby is held in conjunction with a class and the instructors hope to return to Northwest Missouri each year. Jaclyn Weydert, student organizer of the event, said there will be adaptive fishing gear and regular poles available for participants. "Our mission statement is to be able to provide a fun and positive environment for people of all ages and disabilities to be able to fish either with adaptive equipment or a regular pole," Weydert said. "We want to be able to assist everyone in fishing no matter age or disability with whatever adaptive equipment they would need." The students have worked with Mary Scott, a fisheries management biologist for the Missouri Department of Conservation, on organizing the derby. Fisheries biologists stock the lake with a variety of species such as bluegill, sunfish and bass. The conservation department will also offer regular fishing poles for those that do not bring their own.

The adaptive equipment will be provided by the Missouri Chapter of the American Fisheries Society (MOAFS) and can be used for a range of mobility challenges. They will have a wheelchair stand that holds the pole and they will have a reel and rod push button that reels the fish in. They will also have adaptive grip holders that wrap around the elbow to hold the pole. The equipment can be a challenge to find due to the expense.

Weydert said the event is funded through public donations. The Adaptive Anglers Fishing Derby will be held from 8 a.m. to noon on July 23 at Hartell Conservation Area near Plattsburg. Snacks and prizes will be available. For more information, contact Weydert at 660-412-1800.

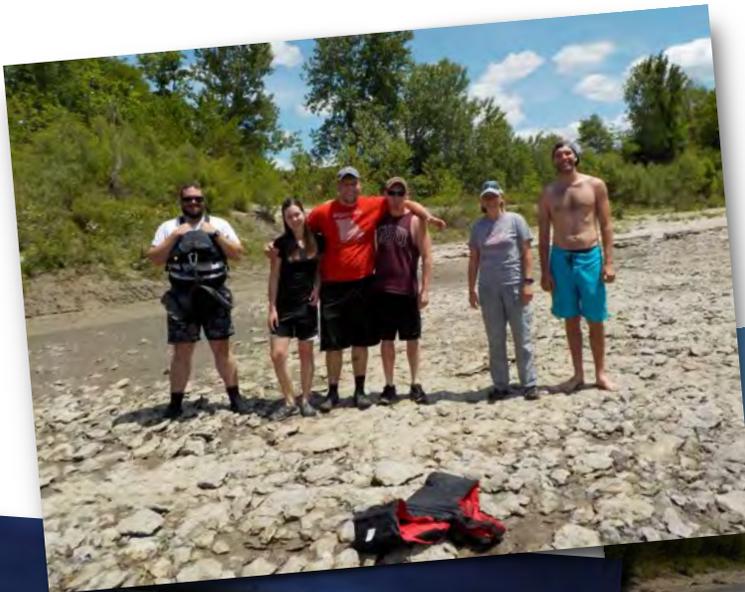


## Outdoor Adventures - Summer 2016

*Prepared by Greg Pitchford*

This year's MOAFS Outdoor Adventure Auction was a hit. Our chapter auctioned off ten trips and made \$1,542.00. Six of the trips have been completed so far. Comments have ranged from, "it was great" to "I'm bidding on this trip again next year". The trips also attracted the attention of people outside our organization. The farthest bid came in from Michigan. (Thanks Gary Whelan!) Four people have already donated trips for the next auction. Those trips include a Canada goose hunt, two catfishing trips, and a guided musky fishing trip on the Chippewa Flowage in Wisconsin. Thanks to all the winners and guides for their generosity. If you have ideas for an outdoor adventure, let me know. Be sure to check out the MOAFS website periodically for pictures.

Contact Greg Pitchford at [gregndonna8286@gmail.com](mailto:gregndonna8286@gmail.com) or 660-973-3158.



# Outdoor Adventures - Summer 2016 (continued...)





## **USFWS Columbia Fish & Wildlife Conservation Office - Summer 2016**

Prepared by: Emily Pherigo, Jason Goeckler, and Patty Herman

In February 2016, Jason Goeckler joined the US Fish & Wildlife Service - Columbia Fish & Wildlife Conservation Office (CFWCO) as the third Project Leader since the office's opening in 1990. Jason comes to federal service after serving the Kansas Department of Wildlife, Parks and Tourism in various capacities since 1996. Jason brings a wealth of experience in sport fish and aquatic invasive species and is enjoying his time as a member of the CFWCO team as they work on the following:

- Working with Missouri Department of Conservation to inventory stream crossings in the Spring River watershed in Southwestern Missouri to prioritize low water crossing replacements to benefit aquatic organism passage
- Complete collaborative pallid sturgeon habitat assessment and monitoring project
- Develop innovative techniques for the detection, monitoring, and removal of invasive carp in Midwestern waters
- Utilize novel techniques to survey the Illinois and Mississippi rivers for the juvenile life stage of Asian Carp in areas with undetermined reproduction and recruitment
- Collaborate with Missouri Department of Conservation to provide a population estimate of Asian Carp in Creve Coeur Lake, a St. Louis County Park, to inform development of a management plan
- Evaluate the effectiveness and determine detection probabilities using innovative gears and traditional boat electrofishing on the Illinois River
- Collaborate with Illinois Department of Natural Resources to remove adult invasive carp at the population front in the Illinois River
- Partner with US Forest Service, Mark Twain National Forest to conduct stream faunal surveys in the National Forest and provide management recommendations
- Facilitate on-the-ground implementation of land management practices for the benefit of aquatic organisms with state governments and not-for-profit entities through National Fish Habitat Action Plan: Fishers and Farmers and Great Plains partnerships.

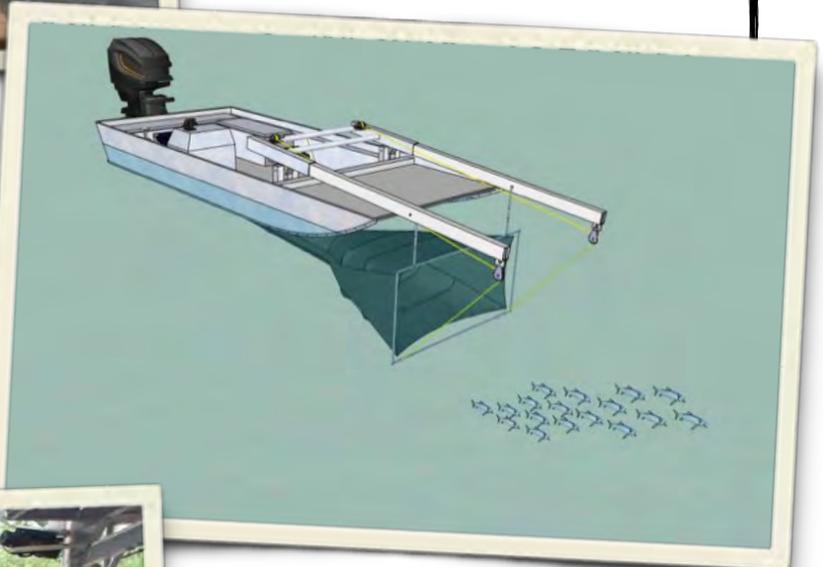


## USFWS Columbia Fish & Wildlife Conservation (Cont.)



*Previous to starting with the USFWS Columbia FWCO, Jason Goeckler worked as AIS biologist in Kansas.*

*The dozer trawl, pictured right, was designed to target juvenile Asian carp in shallow habitats. It is a versatile and inexpensive modification to existing boats that allows managers to sample a variety of habitats. The addition of electricity increases the size of fish captured.*



*Columbia FWCO employees transfer over 700 adult Asian carp (mostly Silver Carp) captured in the Starved Rock Pool of the Illinois River to a refrigerated truck for transport to a processing plant to make fertilizer.*



## The 7<sup>th</sup> World Fisheries Congress in Busan, Korea 2016

Challenge to Sustainable Fisheries  
and Safe Seafoods

**23-27 May 2016**



Prepared by: Craig Paukert

### **News From the World Fisheries Congress 2016**

The World Fisheries Congress was held in Busan, South Korea from May 23 to 27, 2016. This was the third World Fisheries Congress that I attended, which is held every four years. My first Congress was in 2008 in Yokohama, Japan where I was asked to give a presentation as an effort in increase the number inland freshwater fisheries talks. Given this meeting is global in scale, the talks are dominated by marine studies and stock assessments. However, attending these conferences has given me a new perspective on the issues related to fisheries at a global scale. In Missouri, we may be interested in protecting habitat and biodiversity, and management of recreational fisheries. However, much of the inland fisheries concerns worldwide is about food security. Other than developed countries like in North American and Europe, many agencies and organization are trying to protect fishes for food to feed their families. I learned about issues in Africa where individual families have diversion canals just yards apart from each other in an effort to divert fish to harvest, to other issues in the Mekong River Basin where saltwater intrusion into inland rivers due to climate change has surpassed 2060 projections (and thus eliminated many of the freshwater fishes). On a positive note, many of the colleagues I met were very welcoming and would love to have Americans (and others) come over and help them with their fisheries issues. I still stay in contact with many of the people I met at the conference and several collaborations have been discussed. In fact, several are coming to Kansas City for AFS!

I hope to attend future Word Fisheries Congresses to continue collaboration and learn about the issues facing fisheries worldwide. Of course a great by product of attending these conferences is spending time at locations I normally would not travel to and eating some pretty crazy food (like octopus that is still moving). The next Congress will be in Adelaide, Australia in 2020. I suspect there will be several sessions relevant to Missouri issues like instream flows and river management. So start greasing some skids now with supervisors/travel approvers and make plans to travel to Australia in 2020!



*Lunch at the Jagalchi Fish Market in Busan South Korea with colleagues from four different countries. MOAFS member Jodi Whittier is front, right. AFS Executive Director Doug Austen is to the right of Jodi, and AFS past president Donna Parrish is in the dark blue shirt on the right. Former MU student Larry Nielson is in the red shirt on the left.*



*Whole Bigeye Tuna being sliced for sushi a World Fisheries Congress social.*

*Participants at a workshop held on 22 May 2016 in Busan, south Korea to identify how to conduct an assessment on the effects of climate change on global inland fisheries. Participants were (back row, left to right): Paul Simonin, Cornell University; Doug Beard, USGS, Craig Paukert USGS-MO CRU; Ian Winfield, Lancaster Environment Centre; roger Pullin, contractor with FAO, Philipippers; doug Austen, AFS; Ian Cowx, University of Hull; and front row (left to right): Michael Cooperman, Conservation International; Phu Hoa, Nong Lam University, Vietnam; Lilian Ibengwe, Ministry of Livestock Development and Fisheries, Tanzania; Bonnie Myers, USGS; Dongdavanh Sibounthong, Department of Livestock and Fisheries, Laos; and Yushun Chen, Chinese Academy of Sciences. Not Pictured but part of the workgroup; Abigail Lynch, USGS; Steve Cooke, Carleton University.*





## UCM AFS Chapter Report - Summer 2016

UCM Biology Students along with their advisor, Scott Lankford (MOAFS member, Associate Professor of biology, & UCM MOAFS Student Chapter Advisor), are involved in conservation efforts of paddlefish in Missouri through a collaborative project with the Missouri Department of Conservation's Blind Pony Hatchery. Scott and his students are researching the paddlefish's molecular characteristics through a genetic and physiological approach. This research is highlighted in a recent University of Central Missouri Magazine: [https://issuu.com/ucentralmo/docs/ucmmagazine\\_2016\\_springfinal](https://issuu.com/ucentralmo/docs/ucmmagazine_2016_springfinal)



Dr. Aaron Geheber  
(pictured back left)

UCM Department of Biology and Agriculture welcomes Dr. Aaron Geheber and would like to introduce him to the Missouri American Fisheries Society. Aaron comes to UCM from the University of Oklahoma and will fill our Fisheries/Aquatic Ecologist position. His research interests include ichthyology, community ecology, and biogeography. He is active in aquatic research both nationally and internationally; however, his main emphasis is on stream fish communities of the southeastern United States. As a new faculty member at the University of Central Missouri, Dr. Geheber is excited to expand his research and teaching program to include local aquatic systems through collaborations with our state agencies and learning institutions.



# Missouri State UNIVERSITY



## MSU AFS Chapter Report - Summer 2016

This spring we had a few events that helped our subunit perform volunteer work and meet professionals working in the field of natural resources. Our first event was going to the Missouri Natural Resources Conference in Osage Beach. At the conference, several of us went to the "student day" on Wednesday, where we were able to speed network with professionals and find potential job opportunities at the career fair. Four of our members were able to stay the night at the Tan-Tar-A Resort thanks to MOAFS help. On Thursday, one of our members, Josh Roberts, gave a presentation on the research he performed while working a summer job with MDC. Joe Chilton, the vice president of our subunit, was honored at the MOAFS meeting with the Future Professionals Award. Another main event of ours was Park Day at Wilson's Creek National Battlefield. This is a yearly event that our subunit participates in, where we clean up trash along Wilson's Creek within the park. A new volunteer opportunity we were able to be involved in was a vegetation removal project at George Washington Carver National Monument. The pond located on the grounds of the National Park was overrun with algae and coontail. Our group was able to spend a day aiding the NPS in the removal of the vegetation via rakes. The National Park Service employees were very pleased with how the pond looked after we were done. Other activities of

the MSU subunit included voting on our official logo (shown above right), and ordering t-shirts with our logo on them. Now available for purchase!





## SEMO AFS Chapter Report - Summer 2016

Spring has found the Southeast Missouri State subunit emerging from hibernation and diving right in to lots of activities and events! We began with officer elections for the year in which Tyler Ham was voted president, Chris Schwinghamer was voted vice-president, and Edward Sterling was voted secretary/treasurer. The new officers, along with the general members, have been hard at work planning new initiatives and events for the coming summer. Not only have we been planning but we have also been rolling up our sleeves and getting out there, engaging the public and educating them about aquatic resources and helping to better our local community. We spent a day at the annual MDC stream clean-up at Cape LaCroix Creek in Cape Girardeau, brought live fish to show-and-tell at both North Elementary School as well as Monticello Assisted Living in Jackson, and lastly collaborated with MDC on numerous Asian Carp filleting demonstrations at various locations both near and far, including the University of Central Missouri 2016 BioBlitz among others. In addition to our volunteer efforts, we have also been busy attending numerous conferences and meetings. We had members attend the Missouri Natural Resources Conference, the 76<sup>th</sup> Midwest Fish & Wildlife Conference at Grand Rapids (where Chris Schwinghamer was awarded the Joan Duffy Travel Award, Nick Kramer was a finalist for the Janice Lee Fenske Award, and the subunit won Most Active Subunit for the NCD!), MI, the Mississippi River Research Consortium in Lacrosse, WI, the NCD Rivers and Streams Technical Committee Meeting, as well as numerous state AFS meetings, including IA, MN, and NY. And of course we can't talk about meetings without mentioning the

AFS National Meeting in KC this August! All of our members will be attending and presenting research and have signed up to volunteer and help out with the proceedings. We are excited to have the national meeting in our state and to showcase all the great science and outreach happening not only in our subunit but also in MOAFS as a whole! With the end of the spring semester and the beginning of summer, many of our members are hard at work collecting field data but we are also planning out numerous events.

We will continue our Asian Carp filleting demonstrations, we are planning multiple collaborations with the Cape Girardeau MDC Nature Center, and we are currently in talks with private landowners to begin some pond management efforts.



Current President Tyler Ham (left) and VP Chris Schwinghamer (right) met Missouri State Subunit President Jesse Kelly



Subunit members Chris Schwinghamer (left) and Nick Kramer (right) accepting the Most Active Subunit award at the 76th Midwest Fish and Wildlife Conference

# MOAFS 2016 Student Award Winners

## MOAFS Duffy Travel Award winner - February 2016

Award Background: One award is given to a student from each North Central Division chapter for travel assistance to the Midwest Fish & Wildlife Conference. Each chapter is responsible for selecting its respective recipient. The NCD matches chapter student awards up to \$200. MOAFS' portion is provided through the earnings of the MOAFS Student Support Trust Fund. Selection is based on attendance at the Mid-West Fish and Wildlife Conference with students active in AFS and/or the fisheries profession given preference, along with stated financial need.

### Chris Schwinghamer



Bio: Chris Schwinghamer grew up in the small town of Hartford, KS. Through his opportunity to work at the Flint Hills National Wildlife Refuge during the summers in high school, he realized that biology was what he wanted to go into. After high school Chris attended Emporia State University and majored in biology with a concentration in Zoology. Chris was given the opportunity to work temporary jobs in biology during his time at ESU. He worked at the David Traylor Zoo in Emporia as a zookeeper intern and as a summer intern at the Illinois River Biological Station (IRBS) through the National Great River Research and Education Center. Though the relationship between IRBS and Dr. Quinton Phelps, he was able to get an opportunity to pursue his master's degree at Southeast Missouri State University. He is currently working on a project through Southeast Missouri State and the Missouri Department of Conservation to evaluate the exploitation and reproduction of Paddlefish in Missouri's reservoirs.

## Student Achievement Award - February 2016

Award Background: The Student Achievement Award recognizes excellence in academic achievement and extra-curricular involvement by Missouri students. Applicants must be Missouri students who are or plan to be enrolled as an undergraduate or graduate student at a Missouri college or university pursuing a degree in the aquatics resource management field (ex: natural resources management, fisheries science, biology, or a related field). Funding is provided through the earnings of the MOAFS Student Support Trust Fund.

### Corey Dunn

Bio: Corey Dunn is currently a Ph.D. student at the University of Missouri in Fisheries and Wildlife Sciences. He is in the beginning stages of a five-year research project developing fish sampling protocols to examine the fish communities inhabiting mid-sized rivers of Missouri. Before relocating to Columbia, Corey grew up in central Virginia and stayed in-state to attend Virginia Tech for his undergraduate in Biological Sciences. Corey continued his education at Virginia Tech for his master's research in Fisheries and Wildlife Conservation, where he examined multiple factors contributing to the decline of an imperiled stream fish in the Appalachian Mountains. Despite only being in Missouri for one year, he has already had the opportunity to see much of the Show-Me State and looks forward to further exploring Missouri's rivers and wild places for the remainder of his Ph.D. research.



# MOAFS 2016 Student Award Winners

## Future Professional's Scholarship - Fall 2015



Award Background: The Future Professional's Scholarship seeks to support talented and promising aquatic natural resources professionals during their undergraduate studies in Missouri, with preferences given to students involved in AFS, with financial need, and high potential to impact the aquatics field. Applicants must be Missouri students who are, or plan to be, enrolled as an undergraduate student at a Missouri college or university pursuing a degree in the aquatics resource management field (ex: natural resources management, fisheries science, biology, wildlife conservation, environmental science, or a related field). Funding is provided through student-support-specific fund-raisers led by the Chapter.

### Joe Chilton

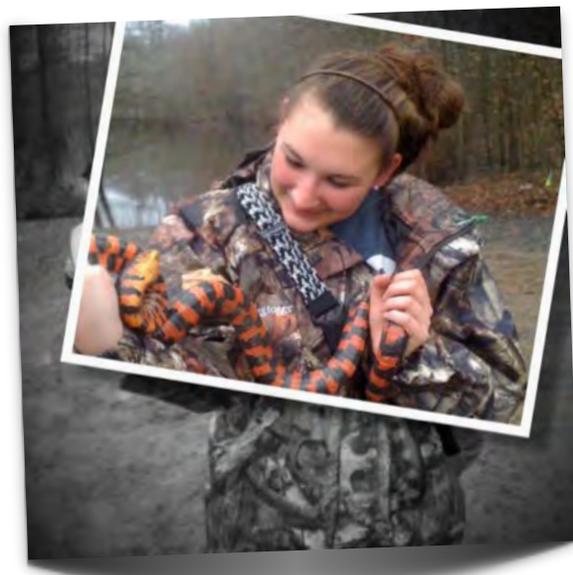
Bio: Joe Chilton is originally from Willow Springs Missouri, where he grew up loving to float the rivers and fish. He recently finished his Bachelors of Science in Wildlife Biology at Missouri State University. For his duration at MSU he was very active with the subunit, serving as vice president during his senior year of his undergrad. While at MSU, Joe worked for MDC in West Plains office and for the NPS in both Missouri and Arkansas. Joe is continuing his education in the fisheries and wildlife graduate program at Mizzou. Joe hopes to someday become a fisheries biologist, conducting research for a state or federal agency.

## MO Natural Resources Conference Best Student Aquatics Presentations

### 1. Kayla Key - poster

Title: Using Maxent to generate a fundamental niche model for diverse mussel assemblages within the northeastern Ozark region of Missouri

Bio: Kayla Key is a Tennessee native, where she completed her undergraduate studies at the University of Tennessee at Martin in Biology. She went to the University of Texas at Tyler to get a masters in Biology where she worked on investigating the taxonomy and ecology of the Texas gartersnake, a species of conservation concern in Texas. From there, Kayla accepted a PhD position in the Rosenberger lab at Mizzou in the Fish and Wildlife Department to work with freshwater mussels. Her dissertation work will involve developing a spatial assessment of the status and risks to species-rich mussel beds in the Meramec River Basin.



## MOAFS 2016 Student Award Winners



### 2. Jacob Schwoerer - platform

Title: Stream community vulnerability to climate and land use change with-in the National Park Services' Heartland Inventory and Monitoring Network

Bio: Jacob Schwoerer recently completed his master's degree at the University of Missouri where he assessed fish and aquatic invertebrate community vulnerability to land-use and climate change in streams within National Parks in the Midwestern region. Before moving to Missouri, Jacob grew up in Northeastern Wisconsin and attended University of Wisconsin-Stevens Point for his bachelor's degree. Jacob is currently working on a collaborative project with the University of Missouri and the Missouri Department of Conservation aimed to determine electrofishing immobilization thresholds for blue catfish, flathead catfish, and smallmouth bass.

# MOAFS 2016 Student Award Winners

Conservation Federation of Missouri, Ed Stegner and Carl Morrow scholarships

Background: The Foundation's Ed Stegner Natural Resource (undergraduate) and Carl Morrow Graduate Scholarships were established to provide major financial aid to encourage and assist students in five areas of natural resource management: fisheries, forestry, wildlife, parks and recreation and soil and water conservation. Funding for this scholarship program was provided to the Foundation by Ed Stegner of Pilot Grove, Missouri. A Master Conservationist, Stegner is the former executive director of the Conservation Federation of Missouri, and is especially known for his leadership role in the passage of the 1/8th of 1% conservation sales tax to fund the Conservation Department's expanded program, Design for Conservation. Carl Morrow, Vice-President of Missouri Power and Light in Jefferson City, was a dedicated and long-time citizen conservationist who served in many volunteer positions with the Conservation Federation of Missouri and as the first Chairman of the Conservation Foundation of Missouri Charitable Trust. Through his efforts the Foundation became a firmly established and financially-viable public trust. The Foundation honors his memory with this graduate scholarship program.

The Foundation's Natural Resource Scholarships are a joint venture with the professional societies in the five different resource areas - i.e., the Missouri chapters of the Wildlife Society, American Fisheries Society and the Society of American Foresters, Missouri Parks and Recreation Association and the Show-Me Chapter, Soil and Water Conservation Society. These groups provide selection committees that pick the recipients in the respective categories. Once selected, the scholarship recipients are notified and each is presented a check in the amount of \$1,000.00.

## 1. Ed Stegner Natural Resource Scholarship

**Rachel Webster Bio:** Rachel Webster was the valedictorian of her Staley High School (Kansas City) graduating class and began her education at Mizzou as a Pre-Veterinary major. She later changed her major to Fisheries and Wildlife (minor in Spanish), and has recently completed her Junior year. She has worked on the Missouri Department of Conservation's "Crayfish Crew" since autumn of 2015. Rachel's career goal is to become an MDC Conservation Agent, and she currently participates in the MDC Protection Division's Agent Intern Program on weekends. She has presented multiple undergraduate research posters at conferences, and is currently working on another



independent research project with MDC. She is known to be motivated, engaging, personable and humorous. In her limited spare time, she enjoys turkey and deer hunting and bass fishing." Receipt of the Stegner Fisheries Scholarship was much appreciated by Rachel, as it allowed her to quit one of the three part-time jobs that she was working during the academic year to put herself through college.

## MOAFS 2016 Student Award Winners

### 2. Carl Morrow Graduate Scholarship

**Nick Sievert** Bio: Nick Sievert is from Sturgeon Bay, Wisconsin but has called Columbia, Missouri home



for the last five years. He graduated from the University of Wisconsin with a BS in Entomology and Biological Aspects of Conservation in 2010. During that time, he also worked for the Wisconsin Department of Natural Resources as an assistant zoologist and contractor conducting research on aquatic invertebrates. Nick came to Missouri to pursue a MS in Fisheries and Wildlife Science with Dr. Craig Paukert, where he conducted research on Missouri stream fish vulnerability and conservation planning. He is now working on his PhD in Natural Resources Science at the University of Missouri where he is studying the impacts of temperature and flow alterations on stream fish communities. In addition to his research and coursework Nick has been an active member of the professional community where he has served as an officer for both the Fisheries Information Technology Section of FITS and the Fisheries and Wildlife Graduate Student Organization. He has also volunteered at a number of outreach events including Mizzou Adventures in Education and the 4H Youth Sport Fishing Day.

# MOA'S 2016 Award & Recognitions

## MNRC - Tan-Tar-A Resort - February 4, 2016



### Weithman Nominations (Long-term Leadership) - Presented at the MNRC Awards Social.

• **Andy Austin** - Recognition of career long efforts to improve specialty sport fisheries across the Ozarks including: smallmouth bass, rock bass and rainbow trout increasing angler enjoyment of aquatic resources. Also, continual and consistent demonstration of leadership, innovation, dedication with a "can-do" attitude. Finally, his willingness to take on difficult tasks and show true leadership and professionalism in representing the Department of Conservation and the resources and staff that he is dedicated to manage.



### Funk Nominations (Long-term Contributions) - Presented at the MNRC Awards Social.



• **Craig Paukert** - Recognition of significant contributions to freshwater research nationwide, including groundbreaking work on the impact of climate change on global inland fisheries, and ongoing research in Missouri with the intent to improve and enhance the conservation and management of the state's fisheries resources. Also significant contributions in leadership and service to the American Fisheries Society. As chief of the Cooperative Research Unit, he provides key support for students and postdocs that will be (or already have been ) employed by Missouri's natural resource agencies. He tirelessly works with state partners to meet their research needs, train their future professionals, and champion its research program.

# MOAFS 2016 Award & Recognitions

## MNRC - Tan-Tar-A Resort - February 4, 2016

### Citizen Award Nominations - Announced at the MOAFS business meeting; presented at a later date due to travel constraints of the recipient.

- Consolidated Grain and Barge Company - Big river fish telemetry project. Project complemented fixed monitoring stations through the addition of mobile stations affixed to tow vessels traveling over 1,100 miles of the Mississippi River, over 600 miles of the Ohio River, over 250 miles of the Illinois River, and 160 miles of the Port Allen Route which cuts from the Mississippi River and Gulf-Intra Costal Water Way. The mobile stations recorded several hundred unique identifications of the endangered pallid sturgeon, threatened shovelnose sturgeon and state endangered lake sturgeon.

### Letter of Recognition Nominations - Announced/Presented at the MOAFS Business Meeting unless otherwise noted.

- Choices for People<sup>1</sup> - Long-term support of disabled angler events. Events over the past eleven years have provided over 2,000 attendees an opportunity to "catch" many positive memories!

- Mark Zurbrick - long-term involvement in legislative affairs and effort to develop a better investment strategy for the management of the student support endowment.



- Jake Allman<sup>1</sup> - pilot effort to identify best software and hardware to support fisheries field work data entry.

- James Cievello, Brian Todd, Steve Muich - Compilation of both cold and warm water Missouri Department of Conservation hatcheries history.



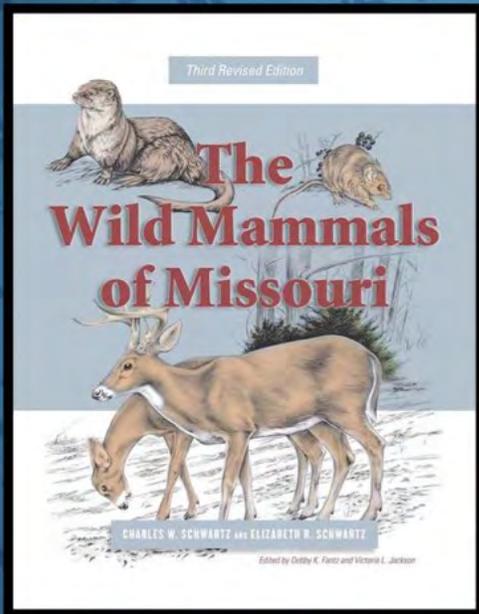
- Paul Calvert, Jennifer Frazier, Sherry Fischer - Stream Stewardship Trust Fund Support. Specifically, providing responses and expert technical testimony in a lawsuit over the administration of the fund.

- Sam Hardy<sup>1</sup> - Video documentation of lake sturgeon spawning in the Mississippi River near Alton, Missouri.

<sup>1</sup>Announced at the MOAFS Business Meeting but presented to the recipient at a later date for the convenience of the recipient.

**MOAFS also won the North Central Division Most Active Chapter Award**

# BREAKING NEWS



The University of Missouri Press and the Missouri Department of Conservation are pleased to announce that *The Wild Mammals of Missouri - Third Revised Edition* was published June 30, 2016. Since its initial publication in 1959, *The Wild Mammals of Missouri* by Charles W. Schwartz and Dr. Elizabeth R. Schwartz has become the definitive guide to the identification of these animals, and it continues to be a source of abundant information about their lives. Charles Schwartz's meticulously rendered drawings capture the spirit of his subjects while remaining technically accurate. The drawings range from full portraits to vignettes to illustrations of skulls, tracks, and other identifying characteristics. The enormous popularity of this work as a college textbook and general reference and a desire to contain the most accurate information led to two previous revisions—the first (in 1981) edited by both authors and the second (in 2001) edited by Elizabeth Schwartz. Scientists and enthusiasts lost two great conservationists when Charles died in 1991 and Elizabeth in 2013.

Debby K. Fantz, resource scientist with the Missouri Department of Conservation, and Dr. Victoria L. Jackson, associate professor with the University of Central Oklahoma, have worked to ensure that *Wild Mammals* will continue to educate, delight, and inspire with this third revised edition. These two mammalogists have over fifty years' combined experience conducting surveys and research, identifying mammals, leading trapping workshops, designing distribution models, and teaching courses in mammalogy and wildlife conservation and management.

*The Wild Mammals of Missouri* has grown from sixty-three full species accounts in the first edition to seventy-two in this third revised edition. The editors have maintained the basic structure of the book while adding much new information, including a full account for the elk with artwork by Mark Raitchel, new trapping records, revised common and scientific names, enhanced Missouri county-level distribution information, updated range maps, and a discussion of the range expansions of the American black bear and nine-banded armadillo, as well as the increase in confirmed mountain lion sightings.

# BREAKING NEWS (Cont.)



## REGISTER NOW FOR THE 2016 ANNUAL MEETING!

You do not want to miss megafish expert and *Monster Fish* tv host, Zeb Hogan, discussing how to create a global voice. (Photo credit: Nat Geo)



Great opportunity to join your peers and...

- ◆ Learn about the latest science and engage with experts from around the world
- ◆ Enhance your job skills with hands-on Continuing Education Workshops
- ◆ See the latest technology in the Trade Show
- ◆ Network with colleagues old and new and enjoy world-class barbecue!

Learn more about program details, symposia, workshops, and posters on the KC website:

<http://fisheries.org/events/146th-annual-meeting-of-the-american-fisheries-society-kansas-city/>

# Upcoming Conferences and Meetings

## 2016

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Joint Meeting of the Centrarchid, Esocid, and Walleye Technical Committees, Ak-Sar-Ben Aquarium, Gretna, Nebraska, July 25-28, 2016

<http://sd.fisheries.org/joint-meeting-of-the-centrarchid-esocid-and-walleye-technical-committees-and-the-upper-colorado-river-endangered-fish-recovery-program/>

Ecological Society of America - Fort Lauderdale, FL August 7-12, 2016, <http://esa.org/ftlauderdale/>

American Fisheries Society - Kansas City, Missouri August 21-25, 2016, <http://2016.fisheries.org/>  
2017 Joint Meeting of the American Fisheries Society and the Wildlife Society - Tampa, Florida August 20 - 24, <https://fisheries.org/2013/06/bringing-together-fish-and-wildlife-in-2017/>

Organization of Fish and Wildlife Information Managers Conference and Annual Meeting - Ponca State Park, Nebraska October 2-6. [http://www.ofwim.org/?page\\_id=966](http://www.ofwim.org/?page_id=966)

First International Trout Congress - Bozeman, Montana October 2-6, 2016 <http://troutcongress.org/>

## 2017

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Missouri Natural Resources Conference - Osage Beach, MO February 1-3, 2017, <http://www.mnrc.org/>

Southern Division American Fisheries Society - Oklahoma City, OK Winter 2017 (date TBD) <http://sd.fisheries.org/2017-oklahoma-city-meeting/>

Midwest Fish and Wildlife Conference - Lincoln, NE February 5-8, 2017 <http://www.midwestfw.org/>

Freshwater Mollusk Conservation Society - Cleveland, OH, March 26-30, 2017, [http://molluskconservation.org/EVENTS/2017Symposium/2017\\_FMCS-Symposium\\_INTRO.html](http://molluskconservation.org/EVENTS/2017Symposium/2017_FMCS-Symposium_INTRO.html)  
International Society for River Science - Hamilton, New Zealand, November 19-24, 2017 <http://riversociety.org/5th-biennial-symposium-of-the-international-society-for-river-science-hamilton-new-zealand-19-24-november-2017/>

Society for Freshwater Science - Raleigh, NC June 4-9, 2017, <http://www.freshwater-science.org/annual-meeting/future-meetings.cfm>

Ecological Society of America - Portland, OR August 6-11, 2017

Joint Meeting of the American Fisheries Society and the Wildlife Society - Tampa, Florida August 20 - 24, <https://fisheries.org/2013/06/bringing-together-fish-and-wildlife-in-2017/>

*Editor's Note*

We hope you have enjoyed this issue of the Missouri AFS biannual newsletter. Your submissions of stories, articles, and reports are what make this publication exciting, special, and something to look forward to every summer & winter. If you have newsletter contribution suggestions for future issues, please do not hesitate to contact us. Have an enjoyable Summer!

Emily and Dan



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