



FISH SOUP

AZ-NM CHAPTER AMERICAN FISHERIES SOCIETY

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INSIDE THIS ISSUE

President's Message

Officers

Chapter News

2018 JAM

Awards

Small Chapter Award

Featured

Grad Student Updates

USFWS/Mining project

Announcements

WDAFS Meeting

National AFS Meeting

Committee Members

Meeting Minutes

Budget

President's Message:

Hey all! What a great year it has been so far!

As usual, this year started off with another successful Joint Annual Meeting! Thanks to all of the students and professionals who made it out to Flagstaff, Arizona and participated in the conference. There were several fantastic workshops and presentations in which to attend! This year also marked the return of the Spawning Run, as well as the 5th anniversary of the Student Quiz Bowl. Congrats to New Mexico State University on your Quiz Bowl win! If you missed the JAM, be sure to check out the Graduate Student Project Update section in this newsletter to get your fix. Thanks again to The Wildlife Society AZ Chapter and the JAM Planning Committee for putting together another great meeting!

I also would like to recognize and give a HUGE thank you to our membership for your dedication and commitment to the AZ-NM Chapter. Your hard work has not gone unnoticed! This year, the Western Division AFS selected the Arizona-New Mexico Chapter to be the first recipient of the Outstanding Small Chapter Award! You all rock! Special thanks to Bryan Bakevich for his Presidential leadership during 2017 - 2018 and Taylor Ulrich for submitting our application for the award!

A new year also means new faces on our Chapter's Executive Committee. Therefore, I'd like to welcome David Stewart as President-elect and Brett Montgomery as Secretary of the AZ-NM Chapter. I look forward to working with the both of you! However, this means it is also time to say good bye to our former Past-President Jess Gwinn and Treasurer Jane Trujillo. Thank you for all your hard work throughout the years (especially during the planning of JAM 2017)!

I hope everyone has a fantastic summer and I look forward to helping keep this Chapter an outstanding one with your help! And for those who are lucky enough to attend the Western Division AFS Annual Meeting in Anchorage this week, I hope you have a fabulous time and gain lots of new fishy knowledge!

Kent Mosher
2018-2019 AZ/NM AFS President

OFFICERS

President:

Kent Mosher

480-678-7620

kentrmosher@gmail.com



President Elect:

David Stewart

US Fish and Wildlife Service

Albuquerque, NM

505-248-6642

david_stewart@fws.gov



Past President:

Bryan Bakevich

NM Dept. Game & Fish

Santa Fe, NM

505-476-8058

bryan.bakevich@state.nm.us



Secretary:

Brett Montgomery

Arizona Game and Fish Dept.

Phoenix, AZ

623-236-7361

bmontgomery@azgfd.gov



Treasurer:

Meredith Campbell

970-443-3814

Mereditchcc19@gmail.com





CHAPTER NEWS

2018 Joint Annual Meeting Arizona/New Mexico Chapter of the American Fisheries Society!

February 1-3, 2018
Flagstaff, AZ

JAM this year featured a great representation of fishy people from a wide range of backgrounds and experience levels. From passionate high school students displaying the results of their first experiments to senior fisheries experts throwing back brews with new grad students, 2018 did not disappoint in providing great opportunities for learning and networking. 28 fisheries presentations and 7 posters showcased the exciting work and research that is coming out of AZ/NM Agencies and Universities.

Awards

The award ceremony at Friday night's banquet recognized and honored wildlife and fisheries professionals for a variety of achievements. Congratulations to the 2018 JAM Award winners, even if the award was received for getting a truck stuck in a creek bed!

Kelly Meyer Sportfish Professional of the Year Award- Joe Marcino

Fish Head of the Year- Larry Riley



Best Oral Presentation- Maria Dyul



Best Student Presentation- Marshall Lyndsay



**Conservation Professional of the Year
– Dan Trujillo**



**Stinky Boot Award- Zach Nemec (left) and
- Larissa Lee (right)**



**Miles McInnis Memorial Student Award
- Graduate Award: Zach Nemec (left),
-Undergraduate Award: Betsy Grube (right)**

AZ-NM Chapter wins first ever Outstanding Small Chapter Award from WDAFS

Taylor Ulrich and Chad Teal

Fisheries Conservation and Management Graduate Research Associates, University of Arizona

As a new format beginning in 2018, the Western Division of AFS is presenting two Outstanding Chapter Awards. One Chapter will be selected from the five largest WDAFS Chapters (Alaska, California/Nevada, Idaho, Oregon, and Washington/British Columbia) and the other Chapter will be selected from the five smallest WDAFS Chapters. We are happy to report that the Arizona-New Mexico Chapter is the recipient of the first ever Outstanding Small Chapter Award for WDAFS!

Give yourselves a pat on the back for all your hard work and accomplishments! Our activities significantly advanced the AFS's Strategic Plan and the Western Division's mission. These activities included many educational opportunities and workshops that helped promote professional development and increase student participation in the Chapter. Although these workshops require substantial amounts of time and effort, they help facilitate communication between agencies, universities, and other organizations. Communication is key to helping fisheries managers, researchers, and students get on the same page with the best practices, techniques, and research in fisheries and aquatic sciences.

In addition to the educational opportunities, the AZ-NM Chapter has been recognized for our continued support of sound science aimed at promoting fisheries conservation. We awarded \$2000 in small project grants and another \$2000 in student scholarships to members in 2017. This resulted in numerous research projects and presentations at local, Division, and Society annual meetings by members of our Chapter.

The WDAFS recognizes our chapter's commitment to education, communication, public outreach and overall improvements in aquatic sciences and fisheries conservation. Everyone keep up the good work!

Graduate Student Project Updates

Influence of stream temperature, intermittency and post-fire effects on the current and future distribution of Gila Trout (*Oncorhynchus gilae*) and other fishes of conservation need in the Gila and Mimbres Drainage Basins

Tyler J. Wallin
twallin@nmsu.edu
Graduate Research Assistant
New Mexico State University
Fish, Wildlife and Conservation Ecology and the
New Mexico Cooperative Fish and Wildlife Research Unit

Tyler Wallin is studying post-fire habitat selection of Gila trout populations. Specifically, he is analyzing habitat data across a Gila Trout population to aid managers in understanding habitat attributes for future recovery efforts. Since Tyler's arrival to Caldwell's lab at New Mexico State University summer 2016, he completed a study characterizing critical thermal limits in three lineages of Gila Trout and he established temperature and stream-intermittency loggers across 71 locations in the Gila and Mimbres drainage basins. He established a cloud-based, shared database that contains site and data summaries for collaborators. With funding from New Mexico Water Resources Research Institute, T&E Inc, and in collaboration with Trout Unlimited Citizen Science, Tyler is currently helping with the implementation of habitat surveys at Willow Creek, Gila National Forest. He plans to defend his thesis research May 2019.



Feasibility of YY Trojan Brook Trout in Extirpating Wild Brook Trout Populations in Headwater Streams of Northern New Mexico

Benjamin Armstrong
benjamin@nmsu.edu
Graduate Research Assistant
New Mexico State University
Department of Fish, Wildlife and Conservation Ecology and the
New Mexico Cooperative Fish and Wildlife Research Unit

Brook Trout occupy the same niche as native cutthroat trout and often outcompete native fishes for limited resources. In New Mexico, native Rio Grande Cutthroat Trout populations have been in decline due to loss of habitat and competition from non-native fishes. Viable removal options for non-native trout are currently limited to piscicides and manual removal, both of which have limitations. Idaho Department of Fish and Game recently developed Trojan YY Brook trout (M_{YY}) as a species specific, and cost-effective method of eradicating wild Brook Trout. The goal of this project is to determine whether M_{YY} Brook Trout will shift the sex ratio of wild Brook Trout populations towards all male fish and eventual extirpation. If successful, this technology will offer a new tool for fisheries managers to eradicate non-native Brook Trout when in sympatry with native cutthroat trout. Ben arrived to NMSU April 2018 and will hit the ground running this summer to begin suppression of wild Brook Trout populations and stocking of M_{YY} Brook Trout on the Vermejo Park Ranch.



Effects of Reservoir Management and Environmental Variables on Reproduction of Largemouth Bass in Elephant Butte Reservoir, New Mexico

Alex Vaisvil
Alexv1@nmsu.edu
Graduate Research Assistant
New Mexico State University
Department of Fish, Wildlife and Conservation Ecology and the
New Mexico Cooperative Fish and Wildlife Research Unit

Water management in the Rio Grande is complex and tied to a balance between evaporative loss and irrigation needs, which dictate water release from reservoirs to irrigators down river. The resulting fluctuations in water level may be responsible for poor recruitment of juvenile fish into the adult populations in one of New Mexico's most popular sport fishing reservoir (Elephant Butte Reservoir). Changes in water levels during spawning season can detrimentally affect successful spawning of Largemouth Bass, which are dependent on shallow areas to develop nests and care for their young brood. Alex's goal is to relate water temperature and water level fluctuations to seasonal changes of a reproductive hormone (17β -estradiol) and timing of hatch of Largemouth Bass. Since Alex's arrival summer 2016, we have learned through strontium chemistry in otoliths and spines that a portion of the Largemouth Bass population in Elephant Butte Reservoir are stocked, thus bypassing the most susceptible life stage. Alex may be able to recommend a window of time when water managers could minimize water level fluctuations to accommodate nest building and hatching success of Largemouth Bass.



Interactive Effects of Temperature and Invasive Species on Rio Grande Cutthroat Trout (*Oncorhynchus clarkii virginalis*) Production in the Southern Rocky Mountains

Lauren Flynn
New Mexico State University
Department of Fish, Wildlife, and Conservation Ecology
New Mexico Cooperative Fish and Wildlife Research Unit

The Rio Grande Cutthroat Trout (RGCT) occupies a small fraction of its historic range, in part due to non-native trout invasions. How do non-native Brown Trout displace native Rio Grande Cutthroat Trout? Since Brown Trout can tolerate a wider range of temperatures than RGCT, we suspect temperature might play a role. This project examines how stream temperature and the presence of non-native Brown Trout affects RGCT populations by comparing four populations (2 warm, 2 cold) where RGCT exist alone, to four populations (also 2 warm, 2 cold) where RGCT and Brown Trout are found together. Results from this project will help managers to identify and prioritize threatened RGCT populations while maintaining popular Brown Trout fisheries. Lauren Flynn joined the Caldwell Laboratory January 2017. She is going into her third field season and plans to wrap up her research spring 2019.



Production of YY male red shiner (*Cyprinella lutrensis*) and green sunfish (*Lepomis cyanellus*) for use as nuisance population control

Chad Teal

chadteal@email.arizona.edu

University of Arizona

School of Natural Resources and the Environment

USGS Arizona Cooperative Fish and Wildlife Research Unit

Competition and predation from nonnative fishes have had substantial impacts on Arizona's native fish species. Nonnative fish introductions have been implicated in nearly 50% of endangered species listings, second only to habitat loss. The red shiner has been shown to compete with native cyprinids and other small bodied species. Green sunfish are generalists that both compete with and prey upon Arizona's native fishes. Traditional removal efforts are challenging and rarely are 100% effective against these hardy species. Trojan Y Chromosome eradication strategies have modeled collapses of target species and show potential for invasive fish control. The goal of my project is to examine the feasibility of producing YY male (supermale) populations of red shiner and green sunfish. Developing these breeding techniques for Arizona's common nuisance fish species could provide a valuable management tool in the future. I joined the University of Arizona in January 2018 and have spent the semester preparing a propagation lab for the breeding of shiner and sunfish. I will have our first broodstock in the lab by the end of May 2018 and hopefully our F1 hormone treatment will start soon after.



not a green sunfish



female (top) and male red shiner from Aravaipa Creek

USFWS and a Mining Company Collaborating for Conservation?

Chad Teal

Fisheries Conservation and Management Graduate Research Associate, University of Arizona

U.S. Fish and Wildlife Service, Freeport-McMoRan - a copper and gold mining company, and Morenci Water and Electric Company are working on a proposal that will permit ongoing mining activities along with mitigation from a safe harbor agreement (SHA) and proposed conservation projects. USFWS is drafting an Environmental Assessment to evaluate impacts and alternatives to the possible issuance of an Enhancement of Survival (EOS) permit to Freeport McMoRan Inc. and the Morenci Water and Electric Company (collectively referred to as the applicant). The endangered species that will be affected by the applicant's proposed projects are the spikedace (*Meda fulgida*), loach minnow (*Tiaroga cobitis*), and Gila chub (*Gila intermedia*).



Freeport McMoRan's Morenci Mine in Greenlee, AZ.

Source: www.freeportinarizona.com

As a form of mitigation for the potential “take” and or “harm” of these endangered species due to the applicant's ongoing projects, the applicant is drafting a SHA for land and water uses at Eagle Creek and the lower San Francisco River. As a part of this SHA the applicant will allocate \$4 million to design and construction of a fish barrier on Eagle Creek. According to the USFWS the best remaining habitat for the three endangered species is above the proposed fish barrier. The applicant will also develop and conduct a three-year monitoring program to detect nonnative species. This program will assess the feasibility of reducing the number of nonnative species in the section of Eagle Creek above the fish barrier. The applicant will also implement annual monitoring activities along Eagle Creek and the lower reach of San Francisco River. This data will be used to direct future conservation and management efforts.

These activities are aimed at developing a “cooperative approach” that combines mining operations with conservation. The goal is that the proposed activities will have a net benefit in conservation of the endangered species in the area.

If you would like more information on the topic go to this link.

<https://www.federalregister.gov/documents/2018/04/03/2018-06713/notice-of-intent-to-prepare-a-draft-environmental-assessment-for-a-proposed-safe-harbor-agreement>

Comments, questions, and concerns can be sent via the contact information below:

- Email: incomingazcorr@fws.gov
- U.S. Mail: Field Supervisor, Arizona Ecological Services Office, 9828 N 31st Avenue, Suite C3, Phoenix, Arizona 85051;
- Fax: 602-242-2513; or
- Phone: 602-242-0210.

Announcements

2018 Western Division Meeting May 21-25, 2018

by tneebing · Published at wdafs.org on July 29, 2017 · Updated May 8, 2018

The Alaska Chapter is proud to welcome you to the 2018 Western Division Meeting “**Change, Challenge, and Opportunity in Fisheries: Fishing for Solutions.**”

The 43rd Annual meeting will be held in **Anchorage, Alaska May 21-25, 2018**. The heart of Alaska, Anchorage is a bustling metropolis yet surrounded by wilderness and minutes from adventure in any direction. Fisheries are vital to the Alaskan economy and way of life. The conservation, research, and management that have helped Alaska maintain a strong connection to fisheries is paramount and discussions of Change, Challenge, and Opportunity from across the west will be welcomed in the Greatland!



For more information, please visit: <https://wdmtg.fisheries.org/>

Meeting Chairs: Jeff Falke, President-elect Alaska Chapter American Fisheries Society, afs.alaska.presidentelect@gmail.com and Brian Missildine, President Western Division American Fisheries Society, Brian.Missildine@dfw.wa.gov



COMMUNICATING THE SCIENCE OF FISHERIES CONSERVATION TO DIVERSE AUDIENCES AUGUST 19-23, 2018

as published on the afsannualmeeting.fisheries.org

The Mid-Atlantic Chapter invites you to attend the 148th Annual Meeting of the American Fisheries Society – Communicating the Science of Fisheries Conservation to Diverse Audiences. The meeting will take place in Atlantic City, New Jersey from August 19-23, 2018. There is plenty to see and do in this exciting city. From beaches and boardwalks, to fishing and amusement parks, Atlantic City has something for everyone.

AFS Arizona-New Mexico Chapter Committee Contact information

Continuing Education James Dominguez
NM Department of Game and Fish
1 Wildlife Way
P.O. Box 25112
Santa Fe, NM 87507
505-476-8163 – Office
james.dominguez@state.nm.us

Miles Mcinnis Julie Meka Carter
Native Aquatics Program Manager
AZGFD, Aquatic Wildlife Branch
5000 W. Carefree Highway
Phoenix, AZ 85086
623-236-7576 – Office
JCarter@azgfd.gov

Environmental Affairs Dave Weedman
Aquatic Habitat Program Supervisor
AZ Game and Fish Department
5000 W. Carefree Highway
Phoenix, AZ 85086
623-236-7607 – Office
DWeedman@azgfd.gov

Nominations/Awards Matt Rinker
Aquatic Wildlife Specialist III
AZGFD, Region II
Flagstaff, AZ 86005
928-214-1247- Office
928-853-5010- Cell

Membership Jane Trujillo
NM Department of Game and Fish
1 Wildlife Way
P.O. Box 25112
Santa Fe, NM 87507
505-476-8152 – Office
jane.trujillo@state.nm.us

Small Grants Scott Rogers
AZGFD, Region II
3500 S Lake Mary Rd
Flagstaff, AZ 86005
928-607-0955

Student Affairs Pilar Wolters
Wildlife Specialist I
AZGFD, Research Branch
5000 W. Carefree Hwy
Phoenix, AZ 95086
928-226-7677- Office
PWolters@azgfd.gov

Website Alton Livingstone
Fisheries and Wildlife Undergrad
Oregon State University
520-561-7027- Cell
520-547-0866- Office
livingal@oregonstate.edu

Notes from the editor....

Hi Everybody,

Thank you to everyone who contributed to this issue of Fish Soup. I want to hear more input from you for the next newsletter! Please send in articles, photos, and announcements to chadteal@email.arizona.edu. Also feel free to contact me with suggestions and comments about the newsletter.

Thank you,

Chad Teal

AMERICAN FISHERIES SOCIETY
ARIZONA–NEW MEXICO
CHAPTER

President
Brian Bakevich
President-Elect
Kent Mosher
Past-President
Jess Gwinn
Treasurer
Jane Trujillo
Secretary
Meredith Campbell

Business Meeting Minutes
4:30-6:00 PM February 1, 2018
Agassiz Room – Little America, Flagstaff, AZ

1. **Welcome/Call to Order** – Bryan Bakevich
2. **Determination of Quorum** – Meredith Campbell/Jane Trujillo
 - a. Estimated quorum of 25
 - b. 121 good standing members, about 50 total attendees
3. **Introduction** – Bryan Bakevich
 - a. Call to order
 - b. Bryan Bakevich – president
 - c. Kent Mosher – president elect
 - d. Meredith Campbell– secretary
 - e. Jane Trujillo – treasurer
 - f. Jess Gwinn – past president
4. **Approval of Agenda** – Bryan Bakevich
 - a. Agenda approved
5. **Approval of 2017 Minutes** – Bryan Bakevich
 - a. Minutes approved
6. **President’s Address** – Bryan Bakevich
 - a. When Bryan started he wanted to get the subunits and students more involved
 - i. AFS was part of his professional development, wanted to pass on that legacy
7. **Treasurer/Secretary Report** – Jane Trujillo, Meredith Campbell
 - a. 2017 was a JAM year
 - b. Quiz bowl buzzers purchased
 - c. In good financial shape moving forward
 - i. Will be able to continue small grants
 - d. Current bank account: \$39,955.63
 - e. Next JAM we host is 2020, so will likely be able to sustain until now
 - i. Each JAM we will try to earn some income through selling merchandise
 - f. Jane has been mentoring Meredith for transition into Treasurer position, passing along e-files and record-keeping protocols
8. **Western Division Update** – Daniel Dauwalter
 - a. Have been busy planning the WD meeting in Anchorage, AK
 - b. 2018 theme: “Change, Challenge and Opportunity in Fisheries: Fishing for Solutions”
 - i. Travel awards for travel to meeting close–Feb 20th
 - ii. All other awards close Feb 15th
 - c. Bryan Missildine has been working on diversity and inclusion for early professionals
 - i. Early professional committee could use volunteers
 - d. Financially the division is doing well
 - i. May increase travel awards to Anchorage (10 student and 3 early professional currently, likely to increase)
 - ii. Award is \$750 or \$1000
 - iii. Contact: ddauwalter@tu.org, (208) 345-9800
 - e. Division just split “Best Chapter Award” into large and small
 - i. Increased likelihood of other chapters beating Oregon Chapter for an award
9. **AFS Parent Society**
 - a. Dr. Scott Bonar – first Vice-President
 - b. AFS journals are free if you become a member of the parent society
 - c. Elections have consequences
 - i. AFS provides opportunities to become involved in government
 - ii. People advocating in Washington for fisheries\
 1. Working on waters of the U.S. (WOTUS)
 2. Magnusson Act (protecting offshore fisheries)
 - a. Up for reauthorization
 3. Recovering America’s Wildlife – protecting non-game species of greatest conservation concern
 - d. Members should go to national meetings to share information and ideas

- i. Regions can learn techniques and management practices from each other
- e. Next national meetings: Atlantic City; Reno; Columbus (150th)

10. Committee Reports

- a. Miles McInnis Scholarship – Julie Carter
 - i. Julie's 3rd year in charge of these scholarships
 - ii. Scholarship developed in remembrance of NMDGF former employee
 - iii. Still have not received many applicants
 - iv. \$1000 for undergraduate and graduate, each
 - v. Last year 3 applicants total, this year 6 applicants total
 - vi. Julie contacted other chapters with scholarships, and they have the same problem
 - vii. No applications from ASU – will find out why?
 - viii. 2 winners will be announced at the awards banquet
- b. Small Grant – Scott Rodgers
 - i. Grants were administered to two people
 - ii. Graduate student: Flannelmouth vs. Razorback Sucker vs. Hybrid research – Pilar Wolters
 - 1. She is presenting tomorrow
 - iii. High school teacher from Taos taking students out to investigate water quality and how it effects fish
 - 1. Equipment was bought with the grant
 - iv. Will continue this grant
 - v. How to pick committee for small grants moving forward – will be decided with incoming president Kent Mosher
- c. Website – Dan Trujillo
 - i. Scam issues
 - ii. Forum – pulled this off the website, most folks were not using anyway
 - iii. Dan is stepping down
 - iv. Anyone is welcome to post on Facebook, as long as it is AFS related
- d. Newsletter – Laurence D'Alessandro
 - i. Bryan and Laurence worked together on this
 - ii. Newsletter was disseminated – more vigilance for multiple issues moving forward
 - 1. Read the President's message
- e. Continuing Education and Awards – James Dominguez

- i. Doug Duncan also worked on this for a large portion of the year
- ii. Amy Hallman was flown out from Oregon for pesticide course
- iii. Continuing nominating peers for awards!
 - 1. Lots of award nominations
 - 2. Last year was first year of Kelly Meyer year – it has been a popular award
 - 3. Awards banquet tomorrow

- f. Membership – Jane Trujillo
 - i. 23 student members only
 - ii. 22 chapter members only
 - iii. 76 society members– both parent and chapter members
 - 1. 58 last year and 76 this year – positive difference!
 - iv. Contact EXCOMM if you have not been receiving emails
 - v. Jane willing to serve on this committee next year
- g. Environmental Affairs – Dave Weedman
 - i. Not present
 - ii. Jess on behalf of Dave – try to share environmental affairs and feedback as often as possible
 - 1. Do not miss chances to discuss issues
- h. Student Affairs – Kris Stahr
 - i. Will be stepping down from this committee
 - ii. Kent and Kris went to Horseshoe Ranch for TWS techniques workshop and demonstrated fisheries techniques
 - iii. Students – check your emails
 - iv. It is has been difficult to find out who officers of chapters are
 - v. Students: Pressure your advisors for workshops and other opportunities for involvement

11. Student Chapter Updates

- a. NMSU – Dillion Martinez
 - i. 20 active members – meet every 2 weeks
 - ii. Lots of work with MVFF and Wounded Warriors
 - 1. Kid's fishing clinic
 - 2. Student involvement, fly-fishing clinics, electrofishing science-night with elementary kids
 - 3. Work with NMDGF – went on a gill-net survey recently

- 4. Elephant Butte – work with Bass association to improve bass habitat
- 5. University Recruitment – recruit freshmen, as well as students in other departments
- b. ASU – Lindsey
 - i. Short on volunteer activities for fisheries
 - ii. Spring snail, razorback surveys, electrofishing and gill-netting workshop
 - iii. Jim Reynolds presentation – University of Montana
 - iv. Colorado Pikeminnow sampling
- c. U of A – Jeff
 - i. PIT tagging workshop – 8 students attended
 - ii. Resume writing workshop
 - iii. Fish survey with AZGFD
 - iv. Camp wildcat with elementary school children
 - v. Desert Fish Council – 6 graduates and 1 undergraduates presented

12. Old Business

- a. Recognition of Past-President, Treasurer
- b. Presentation of plaques
 - i. Outgoing past-president – Jess Gwinn
 - 1. Presented with wooden plaque
 - 2. Jess was president of chapter and organized 50th anniversary JAM – big accomplishment
 - 3. Jess has agreed to remain on as ad hoc committee
 - ii. Outgoing treasurer – Jane Trujillo
 - 1. Presented with wooden plaque
 - 2. Thank you Jane!

13. New Business

- a. Installation of new officers – Bryan Bakevich
 - i. Jane Trujillo is leaving as treasurer
 - 1. Meredith Campbell is moving into treasurer position
 - 2. Whomever is elected as secretary will be mentored by Meredith
 - ii. Jess Gwinn leaving as past president
 - iii. Bryan Bakevich moving from president to past-president
 - iv. Kent Mosher is now the president – gavel has been passed
 - 1. Kent would like to inspire members to join a committee or serve in the future
 - 2. AFS is great for networking – he would like to continue

involvement with student chapters

- 3. Kent would like to move toward coordinating student workshops for electrofishing and other fisheries techniques
- 4. Kent would also like to win the best “small” chapter award
- b. Voting for President-Elect
 - i. EXCOMM counted ballots
 - ii. David Stewart elected
- c. Voting for Secretary
 - i. EXCOMM counted ballots
 - ii. Brett Montgomery elected
- d. Committee Assignments – Bryan Bakevich
 - i. Call for committee chairs
 - 1. Matt Rinker – Awards
 - 2. Jane Trujillo will stay on – Membership
 - 3. Dave Weedman will stay on – Environmental Affairs
 - 4. Pilar Wolters – Student affairs
 - 5. Chad Teal – Newsletter
 - 6. Julie Carter will stay on – Miles McGinnis
 - 7. Alton Livingston – Social media/website
 - 8. James Dominguez will stay on – Continuing education
 - 9. Scott Rodgers will stay on – Small grants
 - a. Need 3 members at least 1 from each state in addition to Scott Rodgers
 - b. Bryan Bakevich, Richard Hansen, Ryan Mann, Pilar Wolters

14. Other Business

- a. It has been suggested that we moved the JAM so that it does not fall on a weekend
 - i. Pilar Wolters suggested it is difficult for students to come if you have to skip 1 day vs. 2 days of class
 - ii. Scott Bonar concurred
 - iii. Lukewarm reaction from members to changing
 - iv. Kris Stahr has pointed out that other states also have the meeting fall on a weekend
 - v. No consensus or decision made

15. Adjourn – Kent Mosher

\$Last Year's Budget\$

**2017-2018 AZ/NM Chapter
Annual Budget**

Reporting begins 1/1/17- 12/31/17

Category and Description	Proposed Budget	Actual Income & Expenses as 12/31/2017
INCOME		
2017 JAM Meeting (includes all dues)		
Registration	\$38,000.00	\$42,036.75
Dues Collected (AFS & TWS)		\$598.50
Raffle Income	\$1,000.00	\$2,459.33
Logo Merchandise Income	\$300.00	\$273.87
Spawning Run 5k		\$360.50
Dues from Parent (2016)	\$1,100.00	\$1,505.00
Chapter Rebate (2016)	\$150.00	\$187.20
TOTAL INCOME		\$47,421.15

EXPENSES		
2017 JAM Meeting Farmington, NM	Proposed Budget	Actual Income & Expenses as 12/31/2017
Meeting Room Reservation	\$200.00	\$300.00
Best Student Poster	\$50.00	\$50.00
Best Student Paper	\$50.00	\$50.00
Plaque for Conservationist of the Year	\$25.00	\$40.00
Plaque for Professional of the Year	\$25.00	\$40.00
Plaque for Professional Sportfish of the Year	\$25.00	\$40.00
Plaque for Fishhead Award	\$25.00	\$40.00
Past President Award	\$50.00	\$50.00
Past President Plaque	\$25.00	\$40.00
Past Secretary-Treasurer Plaque	\$25.00	\$40.00
Past Secretary-Treasurer Award	\$50.00	\$50.00
Award Frames	\$0.00	\$12.00
Award Name Plate Engraving	\$0.00	\$130.00
Stinky Boot Award engraving	\$0.00	\$0.00
Awards Shipping costs	\$0.00	\$11.16
Student Workers	\$720.00	\$708.00
Photo Contest	\$200.00	\$145.00

Plenary Travel Expenses	\$600.00	\$472.15
Raffle Prizes	\$200.00	\$208.66
Piscicide Speaker Reimbursement	\$300.00	\$0.00
Extra award printing	\$0.00	\$0.00

Membership Travel Fund	\$0.00	\$0.00
Quiz Bowl Prizes	\$25.00	\$74.24
AV Costs	\$0.00	\$242.15
Keg Costs	\$500.00	\$0.00
Conference Fees to Resort	\$27,000.00	\$21,490.15
AZ TWS Dues Refund	\$200.00	\$706.50
NM TWS Dues Refund	\$150.00	\$234.50
SW TWS Dues Refund	\$100.00	\$60.00
TWS Continuing Education	\$2,000.00	\$0.00
Spawning Run 5k	\$0.00	\$339.49
Logo merchandise/letterhead (T-shirts)	\$1,000.00	\$2949.50
Extra T-shirt Shipping	\$0.00	\$54.19
Logo Creation	\$1,000.00	\$300.00
Program Printing	\$500.00	\$417.00
Name Badges	\$0.00	\$248.92
Registration Envelopes	\$0.00	\$112.33
Total 2016 JAM expenses	\$33,045.00	\$29,655.94
Mid-Term ExCom Meeting and Cont. Ed (2016)		
Retreat Travel	\$400.00	\$0.00
Retreat Lodging	\$300.00	\$0.00
Retreat Reimbursed Meals	\$100.00	\$0.00
Total Retreat Expenses	\$800.00	\$0.00
Excom/Student/ Committee Retreat		
Food	\$100.00	\$0.00
Travel Reimbursement for NM	\$100.00	\$0.00
Other Excom Travel Expenses:		
Student Colloquium Travel Award	\$0.00	\$0.00
Parent Society Meeting 2017 (Tampa)	\$1000.00	\$1,235.41
WDAFS Meeting 2017 (Missoula)	\$1000.00	\$0.00
JAM 2017 (Farmington)	\$0.00	\$477.53
Total Excom Travel Expenses	\$2,000.00	\$1,712.94

Excess Funds from previous meetings:		
Student Sub-Chapters	\$1,000.00	\$0.00
Small Grants with Excess funds	\$2,000.00	\$1,000.00
		\$1,000.00
Continuing Education	\$2,000.00	\$0.00
Total Excess Funds from previous meetings	\$5,000.00	\$2,000.00
Awards:		
Miles McInnis Student Scholarships	\$2,000.00	\$1,000.00
		\$1,000.00
Total Awards	\$2,000.00	\$2,000.00
Miscellaneous Expenses:		
Donation to WDAFS for 2017 Annual Mtg	\$750.00	\$0.00
Quiz Bowl Buzzers	\$0.00	\$265.00
Ship Treasurer Items	\$0.00	\$19.04
Extra Checks	\$0.00	\$24.00
Total Miscellaneous	\$1,750.00	\$308.04
Investments		
Endowment contribution 2016	\$500.00	\$500.00
Total Investment Contribution		
	\$500.00	\$500.00
TOTAL EXPENSES	\$37,410.00	\$36,176.92
Checking Account Total as of 12/31/2017		\$39,955.63