

OKLAHOMA CHAPTER of the AMERICAN FISHERIES SOCIETY

Volume 24(2)

THE LATERAL LINE

December 2003

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PRESIDENT'S MESSAGE

Greetings, fellow AFS members. It took a while this year, but winter has finally hit the sooner state. That usually means less field work and more time to catch up on office work. As you do so, I'd like to remind you of something that likely needs to be done. Namely, be sure to mark your calendar to attend the Southern Division AFS Meeting, or for those of you whose roots are in the south, the "mid-year" meeting, hosted right here by our own humble chapter. Many of you don't need that reminder, and the truth is that I'm happy to see those faces at virtually every AFS meeting I attend, be it state-, division-, or national-level. But there are probably more faces that I tend to see *only* at the state-level meetings. It's not difficult to imagine why this is true. It's not easy to find the time to attend a meeting, and is often even more difficult to find the financial support. That seems to be especially true in these fiscally-trying times. That's why this is probably the best opportunity in some time to attend our mid-year meeting. It's right here! What better excuse do you need? And convenience aside, I have to admit that, of all the AFS meetings that I attend over the course of a typical year, the mid-year is my favorite.

The mid-year meeting seems to offer the diversity of a large meeting, but retains the feel and informality of a small meeting. The faces are numerous but so many are familiar. Papers address topics of both regional and local relevance. You can find sessions that focus on basic research, applied management, and case studies. You can hear about ecosystems as varied as the deserts of west Texas, the Piedmont of Virginia, and the Florida Coast. If you're interested in presentations that are more similar to your own interests, it offers a chance to see what fisheries workers in our neighboring states are doing, and many of their challenges seem to be similar to those we face here in Oklahoma. I always find the information I glean from the Southern Division Meeting to be especially relevant. Further, the food and beverage flow is great, it's relatively Yankee-free, there is a limited number of trout talks (sorry, Paul), and there aren't entire sessions devoted to anadromous

fish (what kind of goofy-ass life history strategy is that anyhow?). Offended by the words of your Chapter President? Then this meeting also presents a great opportunity to participate in the selection of your officers; a chapter meeting will take place and I encourage everyone to attend and participate in our state-level activities. And if all that isn't enough, take a look at the workshops and symposia outlined elsewhere in this newsletter; truly something for everybody. And if you want to really make the meeting a success, share the fun by bringing a new or prospective member.

I'll see you in Bricktown!

Tim Patton, President
OKAFS

***Activities Committee
Fundraising Committee***

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Continuing Education Comm.

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Environmental Concerns Comm.

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Awards Committee

Jim Burroughs
OK Dept. Wildlife Conservation
Rt. 1 PO Box 75
Porter, OK 74454
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jb_odwc@direcway.com



Who am I?



1. I am sometimes called a dickyfish or baitfish
2. I am deep bodied and highly compressed
3. My maximum length is 3 inches
4. I have diamond shaped scales
5. I occupy sluggish streams and large rivers
6. I am tolerant of high turbidity and siltation

Answer: Red Shiner, *Cyprinella lutrensis*

COMMITTEE REPORTS

Activities Committee

Fund Raising Committee – Barry Bolton

No new information to report.

Environmental Concerns – Randy Parham

No new information to report.

Continuing Education - Steve Spade

No new information to report

Nominations and Awards Committee - Jim Burroughs

Jim would like to announce nominations for the following awards and positions:

JIMMIE PIGG STUDENT TRAVEL SCHOLARSHIP

STUDENTS!! STUDENTS!! STUDENTS!! This is the first and last call for students who would like to go to a professional meeting on someone else's money. The Chapter will award the **Jimmie Pigg Student Travel Scholarship** to a student or students who are involved in fisheries research studies and who are planning to present their findings at an upcoming AFS

meeting. Last year, **Jason Schaffler**, a graduate student from Oklahoma State University, was the recipient of a \$200 travel grant from the Chapter.

This prestigious award is named in honor of the well-known, well-respected late aquatic biologist and educator Mr. **Jimmie Pigg**, who donated the initial Chapter funding to create the award. Jimmie will always be remembered as a dedicated professional and active fisheries conservationist who loved his work and his students.

Any student who is active in fisheries or a related aquatic discipline is eligible to apply. Recipients are selected by the Chapter Nominating and Awards Committee and are presented the award at the annual Chapter business meeting. Selection is based on academic qualifications, professional service, contribution to fisheries and the applicant's demonstrated desire and need for the grant.

Awards are based on merit and are not necessarily given each year. Interested students should contact the Awards Committee Chair, **Jim Burroughs** at Rt. 1 Box 75, Porter, OK. 74454 or email Jim at jb_odwc@direcway.com for more information and to obtain the appropriate application forms (they might be found at http://www.sdafs.org/okafs/chapter_awards.htm). Deadline to apply is January 24, 2004.

OUTSTANDING OKLAHOMA FISHERIES WORKER OF THE YEAR AWARD

The Nominations and Awards Committee is soliciting nominations for the OKAFS highest award, **The Oklahoma Outstanding Fisheries Worker of the Year Award**. The award is presented annually to an Oklahoma fisheries professional who has made significant contributions in the field of aquatic resources conservation, management, research, culture or education. Fishery workers in Oklahoma have, over the years, amassed a multitude of achievements and advancements in fisheries science. This award recognizes their efforts.

It's time to give a meaningful pat on the back to an individual among us who truly deserves the special recognition this award brings. The Outstanding Fisheries Worker of the Year Award last year went to **James Vincent**.

Please take a moment and think about who deserves the award for their hard work this past year, 2003. Nominations should include a descriptive justification, giving examples of work excellence and stewardship. Let us know why your nominee deserves this coveted recognition. Submit your nominations to **Jim Burroughs** at Rt.1 Box 75, Porter, OK. 74454 or email Jim at jb_odwc@direcway.com.

OKAFS OFFICER NOMINATIONS

Nominations are now being taken for Chapter President-Elect and Secretary-Treasurer. **Randy Hyler** will be taking over as President at the annual meeting in February 2004. THE CHAPTER NEEDS YOU or someone you think can lead the Chapter in the future.

If you would like to be considered or wish to nominate someone for these positions (must be a member of the AFS Chapter and the Parent Society), please contact **Jim Burroughs** at Rt.1 Box 75, Porter, OK. 74454 [email: jb_odwc@direcway.com].

UPCOMING MEETINGS

- **2003 Midwest Fish and Wildlife Conference.** Kansas City, MO, at the Westin Crown Center, December 7-10, 2003. <http://www.midwest2003.com/>
- **2004 Southern Division AFS Spring Meeting** - The Oklahoma Chapter and Southern Division of the American Fisheries Society invite you to join us in Bricktown, Oklahoma City, OK at the Westin Hotel for the 2004 Southern Division Spring Meeting, 26-29 February 2004.



Hotel and Registration Information:

Room rates are \$89 per night for single through quad occupancy. Rooms must be reserved by 25 January 2004 to receive this rate and guarantee availability. Reservations will be accepted via phone only (405) 235-2780. State you are with the American Fisheries Society. Check the meeting website for more hotel reservation information (<http://members.cox.net/gregsumm/>)

Meeting registration forms can be downloaded at:

(<http://members.cox.net/gregsumm/registration>). Meeting registration is \$65 for students and professionals prior to 1 February 2004 and \$75

thereafter. Students seeking free accommodations should download the form off the meeting website.

Students applying for reimbursement of registration costs by working at the meeting should contact **Dan Dauwalter**: dauwalt@okstate.edu.

**Schedule of Events:**

- Thursday 26 February-Technical Committee Meetings
- Friday 27 February-Southern Division EXCOM Meeting; Southern Division Business Meeting; Continuing Education Workshops, LMBV Workshop, Student Social at "Rocky's" in Bricktown
- Saturday 28 February-Plenary Session, Symposia and Technical Sessions, Poster Session, Social at the "Bricktown Brewery"
- Sunday 29 February (ending at noon)-Symposia and Technical Sessions, Poster Session

Workshops:

- The 4th Largemouth Bass Virus workshop, sponsored by B.A.S.S. will be held Friday.
- We also currently have a workshop entitled, "Working with Commissions," scheduled for a full day on Friday. The workshop will be taught by **Mike Fraidenburg** of Dynamic Solutions Group, LLC. For background information on this workshop see the February 2001 issue of Fisheries.
- The annual half-day Student workshop is being planned by the Student Affairs Committee. More information on these and other workshops will be available on the meeting website and in the December SDAFS newsletter.

Symposia: Symposia topics currently scheduled include:

- Warmwater Streams: Species Restoration and Recovery Success; Stream Habitat Improvement; Warmwater Streams Fisheries Management
- Ictalurid Biology and Management
- Non-game Fishes

Submission Procedures for Presentations and Posters

Abstracts for symposia and contributed presentations, as well as posters were due by 1 December 2003.

Sorry! For additional information contact **Jeff Boxrucker**, Oklahoma Fishery Research Laboratory, 500 E. Constellation, Norman, OK 73072; (405) 325-7288; jboxrucker@aol.com

Check out the meeting website at <http://members.cox.net/gregsumm/> or at <http://www.sdafs.org/meetings/04sdafs/2ndcall.htm>. This site will be updated as more information becomes available. For more information, contact **Greg Summers**, General Chair, gregsumm@aol.com or **Jeff Boxrucker**, Program Chair, jboxrucker@aol.com. Both can be reached at (405) 325-7288.



Special Notice: Oklahoma State University is having a reunion at the Westin Hotel on Friday night, February 27th from 5pm to 7pm. We welcome all former Cowboys and Cowgirls. Check the bulletin board at registration for room location.

- **51st Annual Meeting Southwestern Association of Naturalists.** San Antonio, Texas, 15-17 April 2004

The Local Committee is pleased to invite you to the 51st Annual Meeting of the Southwestern Association of Naturalists to be held in San Antonio, Texas 15-17 April 2004. The meeting is hosted by the University of Texas at San Antonio and will be held at the Radisson Hotel San Antonio Downtown Market Square. The hotel is just minutes from Market Square, the River Walk, and Alamo, and the San Antonio International Airport is 15 minutes away.

Highlights of the meeting will include field trips Thursday afternoon and evening, a Thursday evening social, Wilks Award Session and Clark Hubbs Student Poster Award competition, a symposium on the ecology of juniper woodlands, paper and poster sessions on Friday and Saturday, and the Annual Banquet on Saturday night.

Our meeting overlaps with the first weekend of Fiesta, an extremely popular tourist event in San Antonio. Most hotels will be booked well in advance, so it is important to make your hotel reservations early.

Local Committee Chair: **Dr. O.W. Van Auken**, Department of Earth and Environmental Science, University of Texas at San Antonio, San Antonio, Texas 78249-0663, Email: ovanauken@utsa.edu; Telephone: 1-210-458-5489; Fax: 1-210-458-4469. See more at: http://www.biosurvey.ou.edu/swan/meet04/Call_for_Papers.html

- **AFS 134th Annual Meeting.** August 21–26, 2004 in Madison, Wisconsin. <http://www.afs2004madison.org/>
- **SEAFWA 2004. Fisheries Call for Papers.** The South Carolina Department of Natural Resources invites you to the 58th Annual Southeastern Association of Fish and Wildlife Agencies Conference, Hilton Head, SC, October 30 – November 3, 2004.

The fisheries session will include posters and oral presentations of peer-reviewed manuscripts on marine, estuarine, and freshwater fisheries topics, including but not limited to management, research, and culture. Case histories are particularly encouraged.

Written manuscripts for peer review are required for presentation in open technical sessions. Manuscripts must follow SEAFWA Instructions to Authors guidelines, available online at www.water.dnr.state.sc.us/seafwa or www.sdafs.org/seafwa.authors.htm, or by contacting the Fisheries Associate Editor (**Dr. John Galvez**; Phone: (772) 563-3909 x.314; Email: John_Galvez@fws.gov) or

Fisheries Program co-Chairs (**Scott Lamprecht** [Phone: (843) 825-3388; Email: lamprechts@scdnr.state.sc.us] or **Steve Leach** [Phone: (843) 825-3388; Email: stevel@scdnr.state.sc.us]).

Meeting details and registration information will be available online via the South Carolina DNR web site: www.scdnr.state.sc.us/seafwa.

The Hutton Junior Fisheries Biology Program

The third year of the Hutton Program was a resounding success! Fifty-four high school students throughout the United States and in Puerto Rico spent an exciting summer experiencing the worklife of a fisheries biologist. Although it is a relatively new program for AFS, the Hutton is important to the future of the profession. The ultimate goal of the program is to recruit young people into a career in fisheries, particularly those groups underrepresented in the profession. These students would eventually be able to fill some of the vacancies created by a retiring workforce. The Hutton has enhanced the

lives of the students and mentors it served over the past three years, and it has the potential to provide the profession with a new generation of fisheries biologists.

Mentor applicants for the 2004 Hutton Program are encouraged to apply as soon as possible. This is your chance to contribute to the development of the youth in your area and to your profession. For more information on the Hutton Program and to download 2004 mentor and student applications, visit the AFS website at <http://www.fisheries.org/Hutton.shtml>. If you need additional information, please contact **Jan Lubeck** at jlubeck@fisheries.org or **Christine Fletcher** at hutton@fisheries.org.

OKLAHOMA AFS MEMBERSHIP FORM

NAME: _____
(last) (first)

AFFILIATION: _____

MAILING ADDRESS _____
(Dept, Bldg, Office, Street, PO Box, Route, etc.)

(City) (State) (Zip)

DAY PHONE: _____ E-MAIL: _____

MEMBERSHIP TYPE: 1 Year (\$5) _____ 2 Years (\$10) _____ 3 Years (\$15) _____ Life (\$50) _____

MEMBERSHIP STATUS: Professional _____ Student _____

COMMITTEES (please choose at least one): Activities _____ Awards _____ Continuing Ed _____
Environmental Concerns _____ Fundraising _____ Program _____

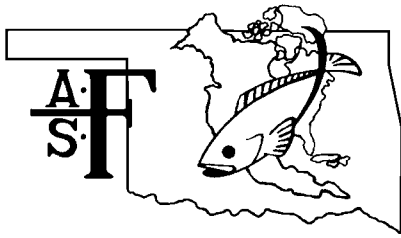
Detach, make check payable to OK-AFS, and send to: **Brent Gordon**, OKAFS Secretary/Treasurer, ODWC, P.O. Box 1201, Jenks, OK 74037

TREASURER'S REPORT

1 January 2002 – 31 December 2002

1. Checkbook Balance (1-1-02)		\$4,849.86
<u>Credits:</u>		
2. Membership 42 @ \$5.00	\$	210.00
3. Pond Booklets (78)		234.00
4. 2002 Annual Meeting Registration & Seminar		2,150.00
5. T-Shirt Sales		145.00
6. Silent Auction		921.50
7. Donations (Conoco)		<u>200.00</u>
8. Total Credits		\$3,860.50
<u>Expenses</u>		
9. Sub – Unit reimbursement (Fountain Head Demo & newsletter)		203.30
10. Student Scholarships		440.45
11. T-Shirt purchases (Sub-Unit)		423.61
12. Food and Drink (social and Banquet)		1,077.55
13. OSU (Meeting Rooms)		151.87
14. Miscellaneous (Programs, meeting needs)		109.75
15. Coffee mugs		418.32
16. Guest Speakers (pond workshop)		369.60
Total expenses		<u>(\$3,194.45)</u>
17. Ending Checkbook Balance (12-31-02)		\$5,515.91
<u>Investments</u>		
18. Franklin Inc. Balance (12-31-01)	\$	11,608.65
19. Dividends and Interest		<u>871.48</u>
20. Balance (12-31-02)		\$12,480.13
21. Global allocations Balance (12-31-01)		3,644.29
22. Dividends and Interest		<u>49.52</u>
23. Balance (12-31-02)		\$3,694.04
<u>Mutual Funds and Defined Assets</u>		
		<u>2002</u>
24. Franklin Fund - Unrealized gain or (loss)		(\$1,971.00)*
25. Global Allocation – Unrealized gain or (loss)		(788.00)*

* These amounts indicate the value of the mutual funds have drop from what we paid for them. In other words, if you compare what we paid for the fund originally to the current market value of that fund. The gain or (loss) is not realized until the fund is sold.



OKLAHOMA STUDENT CHAPTER of the AMERICAN FISHERIES SOCIETY

Volume 9(2) **THE LATERAL LINE STUDENT SUPPLEMENT** December 2003

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Vice-President

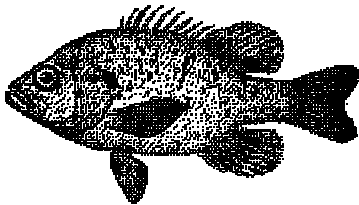
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PRESIDENT'S MESSAGE

Greetings once again! Wondering what to throw upon you this time, I thought that I might make some suggestions regarding student professional development. There are several things students can do to make themselves more competitive when applying for jobs or graduate school.

First, take classes that will train you to become a qualified fisheries biologist, whether it is at the school you currently attend or at some other university. Many state agencies REQUIRE that you take so many classes in fisheries science, biology, mathematics, etc. to qualify for a position. Many of those requirements are based off of the AFS certification program (see page 11). Make sure your degree program meets those requirements.

Second, be active! I know I said this last time, but many employers or faculty would rather hire a student that has gone the extra mile to gain experience or reach out to others. AFS, at any level, is an excellent way to participate in education, outreach, and professional development activities.

Third, get experience. You can gain experience in fisheries or aquatic biology by just asking an appropriate faculty member if you can volunteer on a project. Or even better, you can apply for internships that will PAY you to gain work experience. This may mean you might have to give up hanging out with friends one Saturday afternoon to get the experience you need. Most employers and professors only want high quality students that will take the job seriously, so make sure your grades are up!

Finally, apply for awards. Receiving awards, such as the Fisheries Involvement Award, lets future employers know that others also think highly of your skills. Other awards, such as the Skinner Award can be found at <http://www.fisheries.org/html/student.shtml> and on page 9.

Information on making yourself more competitive can be found in Grossman (1998) and Zale et al. (2000). Good Luck!

Dan Dauwalter, President, OK Student Chapter AFS

Grossman, G.D. 1998. Notes from the blackboard. *Fisheries* 23(9):16-17
Zale et al. 2000. Getting a job or assistantship. *Fisheries* 25(6):24-31

OUTREACH EVENTS

- In September the Student Chapter held our annual fish fry as a fundraiser and membership drive. Despite mediocre weather, we were still able to feed the hungry and recruit additional fishheads to AFS. A good time was had by all.
- In October the Student Chapter participated in the Payne County Audubon Society's Nature Day at Sanborn Lake in Stillwater, OK. We displayed some redear sunfish, bluegill, smallmouth bass, blue catfish, and other Oklahoma fish species in aquariums, and answered questions regarding fish identification and ecology. We also distributed fish posters and stickers, handed out information on AFS, and displayed some common fishery gears. One little girl couldn't have enough fun in our hoopnet (despite her mother's concerns).
- In November the Student Chapter held a joint meeting with the Oklahoma Student Chapter of the Wildlife Society, where we invited **Bill Wentroth** of the Oklahoma Department of Wildlife Conservation to give a seminar on contrasts between wildlife and fisheries management in Oklahoma.

TREASURER'S REPORT

1 June 1 2003 – 1 December 2003

	<u>Starting Balance</u>	<u>\$263.50</u>
Debits	Fish Fry	36.96
	Miscellaneous (copies, postage, calls, etc.)	15.81
	<u>Poster and lamination</u>	<u>71.91</u>
	TOTAL	\$124.68
Credits	<u>T-shirt sales</u>	<u>88.00</u>
	TOTAL	\$88.00
	Ending Balance	\$226.82

STUDENT CHAPTER NEWS

- OSU students **Daniel Dauwalter**, **Jason Schaffler**, **Matt Mauck**, **Nick Utrup**, **Stacey Davis**, **Sherri McClure**, **Roshini Nambiar**, and **David Walter** gave presentations at the Annual Technical Meeting of the Oklahoma Academy of Science in Chickasha, OK on 7 November, 2003.
- Former Student Chapter President **Maureen Walsh** received the J. Frances Allen Award awarded annually by the American Fisheries Society to a female Ph.D. student whose research emphasis is in an area of fisheries science.
- Sorry for any student news that was missed! Send news to **Daniel Dauwalter** at dauwalt@okstate.edu

AWARDS AND SCHOLARSHIPS

Student OKAFS Fisheries Involvement Award

The Oklahoma Student Chapter is currently accepting applications for the 2004 Fisheries Involvement Award. The recipient of this award will receive one year's membership to National AFS, or if the student is already a member of the parent society, the student can opt to receive a subscription to an AFS journal or \$50.00 towards any AFS book.

Involvement could be through classwork, paid work experience, or volunteer and outreach experiences. Last year's award went to **Nick Utrup** of OSU.

This award was created by the student sub-unit in 1998 to recognize Oklahoma students who have demonstrated an interest in fisheries biology and management, and wish to pursue a career in fisheries or aquatic resources. It is also intended to promote and encourage the involvement of undergraduate students and new graduate students in the American Fisheries Society at the national, state, and sub-unit levels.

We strongly encourage undergraduates and first year graduate students from all Oklahoma Universities to apply. For more information or to receive an application, please contact **Dan Dauwalter** at dauwalt@okstate.edu or it download from the OKAFS Student Chapter website at: <http://www.sdafs.org/okstudentafs/involve.html>. Please submit applications to: Fisheries Involvement Award, c/o **Daniel Dauwalter**, 404 LSW, Oklahoma State University, Stillwater, OK 74078, or submit via e-mail, by January 24, 2004. Winner will be notified by January 31, 2004, and the award will be presented at the OKAFS meeting in February.

OKAFS Jimmie Pigg Student Travel Scholarship

The Oklahoma Chapter AFS offers this award for students to present research at a professional meeting. See page 2 for details.

SDAFS Robert M. Jenkins Memorial Scholarships

Two \$1,000 Robert M. Jenkins Memorial Scholarships are being offered by the Southern Division AFS Reservoir Committee to students conducting reservoir-related research. Scholarships will be awarded annually with funding for a second year contingent upon research and academic performance. This award will be made directly to the student and not the student's educational institution. It can be used for any aspect of the graduate education including, but not limited to, tuition, textbooks, equipment, travel or living expenses. It is not intended to replace any funding obligated to the student. Scholarship recipients will be required to present the results of their study to the Committee or at a conference where the Committee is holding a regular meeting. Travel assistance of up to \$500 each will also be provided if travel funds from other sources are unavailable. See more at: http://www.sdafs.org/reservoir/scolship/res_scol.htm

SDAFS Jimmie Pigg Outstanding Student Achievement Award

The Warmwater Streams Committee of the Southern Division AFS is offering the Jimmie Pigg Outstanding Student Achievement Award! Students must be either currently enrolled in a university or had been enrolled during the 2002-2003 academic year. Criteria are based on research, education and professional activities. Research criteria can be achieved by either independent graduate activities or collaborative research with educators or fishery scientists. All aspects of research activities concerned with warmwater streams are acceptable. An outstanding educational record based on undergraduate and/or graduate courses is desirable. Courses concerned with fishery or aquatic biology, statistical concepts, and warmwater stream biology and management are highly desirable, but not required. Professional activities such as holding offices or chairing committees in fishery-related student organizations, AFS Chapters, and other professional organizations are desirable. Activities in public services such as children fishing derbies, teaching conservation and fishing workshops to local elementary and high schools and other conservation-related activities are also desirable. All nominees must be willing to present their research at the 2004 SDAFS Mid-Year Meeting and must submit with the nomination material an abstract. All nominees will be ranked based on research (40%), education (25%), professional service (25%) and public service (10%). A committee of members employed by state and federal agencies, and universities will serve as the selection committee. Nomination material is available from the

Committee's homepage housed in the SD AFS site (<http://www.sdafs.org/>) or by contacting John Copeland at jcopeland@dgif.state.va.us or (540) 961-8304 (press 2 during the greeting message for his mailbox). All nomination material must be submitted by January 15, 2004 to John Copeland, 2206 South Main Street, Suite C, Blacksburg, VA 24060 or by fax at (540) 961-8425. Get more information at: <http://www.sdafs.org/wwstreams/staw.htm>.

Other Awards

Many other professional societies and associations offer awards for best presentation and best poster at their annual meetings. Many also offer research grants.

- **Southwest Association of Naturalists (SWAN).** http://www.biosurvey.ou.edu/swan/meet04/Call_for_Papers.html
- **Oklahoma Academy of Science (OAS).** <http://www.biochem.okstate.edu/OAS/OASHomePage.html>.
- **North American Native Fishes Association (NANFA).** <http://www.nanfa.org/>
- **American Society of Ichthyologists and Herpetologists (ASIH).** <http://www.asih.org/awards/awards.html>

AFS CERTIFICATION

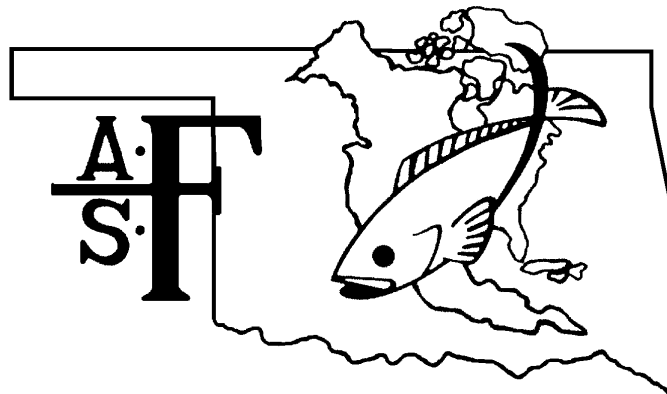
The American Fisheries Society offers professional certification to anyone who meets specific education and experience requirements. Most students, upon completing their undergraduate education, are qualified to become a Associate Fisheries Professional. Go to: <http://www.fisheries.org/Certification.shtml>

Fisheries Professional Associate (FP-A) - an applicant who satisfies coursework degree requirements but has insufficient or no experience may become an Associate Fisheries Professional.

Education Requirements

Subject Area	Graduate before July 1, 2002*	Graduate after July 1, 2002
A. Fisheries and Aquatic Sciences.	Four (4) courses; two of which must be directly related to fisheries science.	Four (4) courses; two of which must be directly related to fisheries science and at least one must cover principles of fisheries science and management.
B. Other Biological Sciences.	When added to the above courses must total 30 semester or 45 quarter hours.	12 semester or 18 quarter hours. When added to the above courses must total 30 semester or 45 quarter hours.
C. Physical Sciences.	Must total 15 semester or 22 quarter hours.	Must total 15 semester or 22 quarter hours.
D. Mathematics and Statistics.	Must include college algebra or calculus and one course in statistics. 6 semester or 9 quarter hours.	Must include one calculus and one statistics or two statistics courses. 6 semester or 9 quarter hours.
E. Communications.	Must total 6 semester hours.	Must total 9 semester or 13 quarter hours. Three semester or five quarter hours may be taken in communication intensive courses if officially designated as such by the college or university.
F. Human Dimensions.		6 semester or 9 quarter hours

* The revised educational requirements for certification apply to those who complete their B.S./ B.A. (or equivalent) degree on or after July 1, 2002. Those who graduated prior to that date will be evaluated based on the earlier criteria regardless of when they apply for certification. Those graduating on or after July 1, 2002 may only apply under the new criteria. Applicants who graduated prior to July 1, 2002 may choose to apply under either criteria. In no case may applicants select parts from each system.



OKLAHOMA CHAPTER OF THE AMERICAN FISHERIES SOCIETY

THE LATERAL LINE

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