



LATERAL LINES

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THE NEWSLETTER OF THE IOWA CHAPTER OF THE AMERICAN FISHERIES SOCIETY

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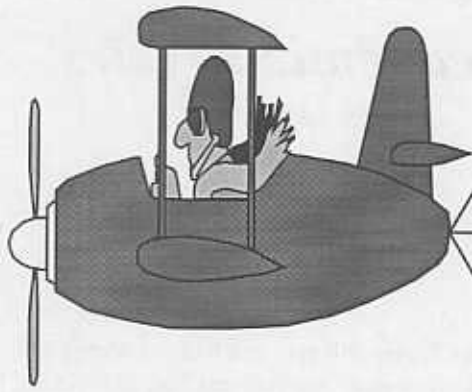
PRESIDENT'S CORNER

Well all I can say to those Chapter members that didn't make it to the Spirit Lake meeting with the Minnesota Chapter is *"You missed it"*. The accommodations were plush, the information plentiful, the camaraderie everywhere, and the food excellent. There were two feeding frenzies the first afternoon, one at the Berkeley Outlet Store where I saw several people with armfuls of rods and one chapter member with several pounds of power worms (enough to outfit a small army of anglers!). The second was at the social where we plowed through all the sandwiches and chips and washed them down with three kegs of liquid refreshments. This accomplished just what we had hoped, the exchange and networking were thick on Tuesday night as everyone related experiences and had a good time. The next day brought the excellent program put together by our own Gary Siegwarth and his counterpart from Minnesota Carl Richards. After a full day of presentations we broke into Chapter meetings where it was gratifying to see the good turnout and large number of students present.

It seems the Iowa Chapter was able to hold its own against the numerically superior Minnesota Chapter in the Walleyball tournament with a split of one game apiece. We then partook of a fine banquet meal after which we were further enlightened by Dennis Keeney with an interesting perspective from the Leopold Center. We capped off the official evenings activities with a white elephant auction that netted the Chapter \$280! The next morning we were back in the meeting rooms for another round of excellent presentations. By noon everyone was heading home hopefully informed, recharged, a little tired, and overall enriched by the experience. To those of you that missed it start planning for the 1996 meeting. I'm sure those of you who attended already have a spot on your calendar reserved. 

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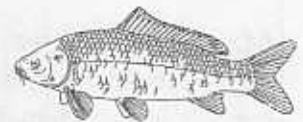
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Are you *Born to Lead*?



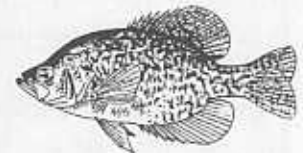
Now is the time to step forward and lead us toward the millennium!!!! The Iowa Chapter nominations committee is looking for a few good fish-heads to serve as **President-Elect** and **Secretary/Treasurer** for next year. If your tired of being just another polliwog in the pond of professionalism, throw your hat into the ring. There is a catch!!! To serve as an elected official, you must be a member of *both* the Iowa Chapter of the American Fisheries Society and the Parent Society.



The nominations committee will select two candidates for each position from the pool of prospective potentates. Ballots will be made up and distributed in the next issue of the newsletter in late summer or early fall. For your shot at all the *power, glory, and fame* that goes with these positions, contact either **Don Kline** or **Ken Snyder** **ASAP!!**



Don Kline
Southeast District Office/Lake Darling
110 Lake Darling Road
Brighton, IA 52540-9661
(319) 694-2430



or

Ken Snyder
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Bending the Law?

Government restrictions have severely hampered the ability of fish culturists to fight disease. Currently only four therapeutants are officially listed for use in hatchery fish. The list includes formalin, terramycin, Romet-30, and MS-222. As reported in the October 1994 issue of *Feedstuffs*, the Center for Veterinarian Medicine released a list of products which are not specifically approved for aquaculture use, but will not draw the center's enforcement attention. These items are considered "low-regulatory priority products". This list is provided for your information, as professionals, the use of these products is not condoned.

1. **Acetic Acid** - used as a parasiticide for fish
2. **Calcium Chloride** - used to increase water calcium concentration to ensure proper egg hardening
3. **Calcium Oxide** - used as an external protozoicide for fingerling to adult fish
4. **Carbon Dioxide Gas** - fish anesthetic
5. **Fuller's Earth** - used to reduce adhesiveness of fish eggs
6. **Garlic (whole)** - used to control helminth and sea lice of marine salmonids
7. **Hydrogen Peroxide** - used for fungus control
8. **Ice** - used in transporting fish to reduce metabolic rates
9. **Magnesium Sulfate** - used to treat external crustacean and trematode parasites

10. **Onion (whole)** - used as a sea lice deterrent on salmonids
11. **Papain** - used to dissolve fish egg masses
12. **Potassium Chloride** - used to aid in fish osmoregulation
13. **Povidone Iodine** - used to disinfect egg surfaces during and after water hardening
14. **Sodium Bicarbonate** - used as a means of introducing carbon dioxide into the water to anesthetize fish
15. **Sodium Chloride** - used to aid fish in osmoregulation
16. **Sodium Sulfite** - used to treat eggs to improve their hatchability
17. **Thiamine Hydrochloride** - used to prevent or treat thiamine deficiency in salmonids
18. **Urea and Tannic Acid** - used to dissolve fish egg masses

For more information about the current status of AFS action on the use of these products see Paul Brouha's Director's Line in the June 1995 issue of *Fisheries* magazine.



Adipose Angst

- What stream has produced the most State record trout in Iowa?
 - Maquoketa River
 - Bear Creek
 - Nishnabotna River
 - French Creek
- What species was "Oscar", the most famous fish in Iowa and long time resident of Backbone Trout Hatchery?
 - Rainbow Trout
 - Brook Trout
 - Lake Sturgeon
 - Common Carp
- How much does the State record rainbow trout weigh?
 - 8 pounds 4 ounces
 - 14 pounds
 - 16 pounds 12 ounces
 - 19 pounds 8 ounces
- What is the only native trout species to Iowa?
 - Brook Trout
 - Rainbow Trout
 - Dolly Varden Trout
 - Brown Trout
- What is the average number of lateral line scales on the brook trout?
 - 75
 - 150
 - 250
 - 350

Answers: 1-d, 2-c, 3-d, 4-a, 5-c



Brain Teasers

Acronym Soup

- | | |
|-----------|-----------|
| 1. RAT | 11. USGS |
| 2. CWT | 12. LTRMP |
| 3. IBI | 13. AFS |
| 4. ERM | 14. CRP |
| 5. NWS | 15. EO |
| 6. NBS | 16. BMP |
| 7. DBH | 17. CPUE |
| 8. EPA | 18. TVA |
| 9. CST | 19. OMC |
| 10. MICRA | 20. ESA |



\$\$\$ The Price Is Right \$\$\$

(matching)

Species, rearing method, size	Average Cost/1,000 Fish
1. Walleye, intensive, fry	A. \$ 1.81*
2. Walleye, intensive, 7 inch	B. \$1939.90
3. Walleye, extensive, 3-6 inch	C. \$ 385.87
4. Trout, intensive, catchable	D. \$ 245.11
5. Channel Catfish, intensive, 6-inch	E. \$ 29.04
6. Largemouth Bass, intensive, 5-inch	F. \$ 0.35
7. Muskellunge, intensive, 3-8 inch	G. \$ 982.65
8. Northern Pike, extensive, 2-inch	H. \$ 238.50
9. Bluegill, extensive, 1-inch	I. \$ 22.45
10. White Amur, extensive, 8 inch	J. \$2676.12

* Cost per pound

Information calculated from the Iowa Department of Natural Resources Fisheries Bureau, Fish Culture Section, Annual Reports 1992, 93, 94

Answers:

1-F, 2-C, 3-J, 4-A, 5-D, 6-H, 7-B, 8-E, 9-I, 10-G

Acronym Soup Answers:

- RAT - River Action Team
 - CWT - Coded Wire Tag
 - IBI - Index of Biotic Integrity
 - ERM - Enteric Redmouth
 - NWS - National Weather Service
 - NBS - National Biological Survey
 - DBH - Diameter at Breast Height
 - EPA - Environmental Protection Agency
 - CST - Central Standard Time
 - MICRA - Mississippi Interstate Cooperative Resource Association
 - USGS - U.S. Geological Service
 - LTRMP - Long Term Resource Monitoring Program
 - AFS - American Fisheries Society
 - CRP - Conservation Reserve Program
 - EO - Executive Order
 - BMP - Best Management Practices
 - CPUE - Catch Per Unit Effort
 - TVA - Tennessee Valley Authority
 - OMC - Outboard Marine Corporation
 - ESA - Endangered Species Act
- Rating:
1-5 correct: silver lamprey, 6-10: brown bullhead, 11-15: channel catfish, 16-18: flathead catfish, 19-20: electric eel



The American Fisheries society supports the conservation of North America's fisheries and aquatic ecosystems by promoting professional excellence in fisheries science, management, and education.



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GARY SIEGWARTH
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Meetings of Interest

Aug 1-4 The Universities Council on Water Resources Annual Conference. Holiday Inn by the Bay, Portland, Maine. Contact Camille Hedden, 4543 Faner Hall, Southern Illinois University, Carbondale, IL 62901, 618/536-7571

Aug 16-17 AFS - North Central Division Centrarchid Technical Committee Meeting, Wyalusing State Park, Prairie du Chien, Wisconsin. Contact Doug Beard, Wisconsin DNR, Bureau of Fish Management, FM-4, Madison, WI 53707

Aug 28-Sept 1 The 125th Annual Meeting, "Fisheries: A Vision for the Future - Science, Application, Communication," Tampa Convention Center, Tampa Florida. Contact Paul Brouha, AFS 5410 Grosvenor Lane, Ste. 110, Bethesda, MD 20814-2199, 301/897-8616; FAX 301/897-8096

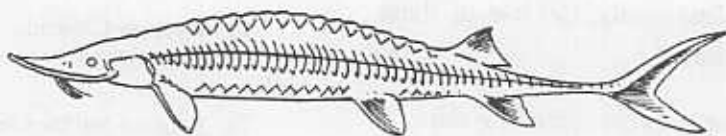
Sept 12-14 UMRCC Fish Technical Section Meeting, Wyalusing State Park, Prairie du Chien, Wisconsin. Contact Tim Schlagenhaft, Minnesota Department of Natural Resources, 1801 South Oak Street, Lake City, MN 55041, 612/296-6157

Sept 18-15 European Association of Fish Pathologists Seventh International Conference on Diseases of Fish and Shellfish. Palma de Mallorca, Spain. Contact Eva-Maria Bernoth, CSIRO Australian Animal Health Laboratory, P.O. Bag 24, Geelong, VIC 3220, Australia

Sept 14-16 Annual Meeting of the Society for Ecological Restoration (SER). University of Washington, Seattle, Washington. Contact SER Conference Registration, 1207 Seminole Hwy., Madison, WI 53711, 608/262-9547

Oct 16-18 The Conservation and Management of Freshwater Mussels II: Initiatives for the Future. Embassy Suites Hotel, St. Louis, MO. Contact Alan Buchanan, Missouri Department of Conservation, 314/882-9880

Dec 3-6 Annual Meeting of the AFS North Central Division, Westin Hotel, Detroit, Michigan. Contact Jim Diana, School of Natural Resources, University of Michigan, Ann Arbor, MI 48109, 313/763-5834



Alabama Sturgeon Caught

Two rare Alabama sturgeon (*Scaphirhynchus albus*), one caught by fisherman on April 18th and a second by U.S. Fish & Wildlife Service Biologists on May 19th, "could plunge the Clinton administration back into a political fight with southern politicians." The capture brings to three the total number of sturgeon caught since December 1993.

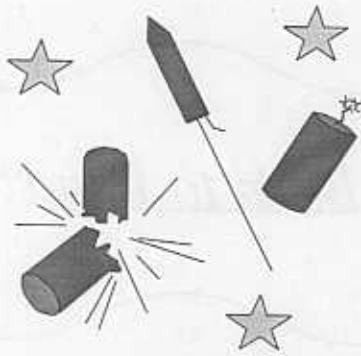
The Alabama sturgeon has been the focus of "a raging battle" since June 1993 when government officials proposed to list it as endangered. Alabama lawmakers fought the proposed listing, arguing that the fish had not been caught since 1985 because they are already extinct.

Interior Secretary Bruce Babbitt conceded, and withdrew the listing in December 1994, citing lack of evidence that it still exists. Environmentalists wanted the fish listed, while Alabama politicians say a listing could threaten 20,000 jobs and \$11.3 billion in river commerce.

The U.S. Fish & Wildlife Service now plans to conduct genetic tests on blood and tissue samples to determine if the fish are really Alabama sturgeon. It is "doubtful", however that such tests will quell the controversy. There is considerable debate as to whether the Alabama sturgeon is a separate species from the more abundant shovelnose sturgeon (*Scaphirhynchus platyrhynchus*).

The catch comes as Congress and the White House continue to debate the budget, including a provision barring the U.S. Fish & Wildlife Service from continuing its search for the sturgeon. The president recently signed a six-month moratorium on listing new endangered species

Taken from River Crossings Volume 4, Number 3, May/June 1995



Awards Abound in Spirit Lake

Three of our members walked away with hardware from the joint Iowa Minnesota chapter meeting. Two Iowa Chapter members were singled out for their service to the American Fisheries Society and one awarded the Best Paper from our previous chapter meeting.

Martin Konrad was presented the Iowa Chapter Past-President award for his three years of service as President-Elect, President, and Past-President. We appreciate Martin's efforts during his tenure.

Jim Wahl received a belated award for serving as the NCD's Secretary-Treasurer. Jim's participation beyond the Chapter level distinguishes him as a true leader in the Fisheries profession.

The Best Paper award for 1994 was presented to **Gary Siegwarth** for his paper on river and lake strain walleyes in small Iowa rivers presented in Council Bluffs. For his oratory efforts, Gary was awarded a plaque.

Special thanks to these people from the rest of the members of the Iowa Chapter!



Academic Affairs

News From ISU

Road Trip to MoTown

Courtesy of ICATS

The Iowa Chapter will give one lucky student \$200 for travel expenses to the Midwest Fish & Wildlife Conference held in Detroit, Michigan, December 3-6, 1995. You too can rub elbows with some of the greatest fish minds in the Midwest!

According to Kevin Wehrly, NCD Student Affairs Committee Chair, "NCD president Jim Diana and the Executive Committee have allocated \$1400 in discretionary funds to support the Student Travel Grant Program for 1995. The purpose of this fund is to provide funding to facilitate student travel to the annual NCD meeting that is held in conjunction with the Midwest Fish & Wildlife Conference.

The program is designed to assist students who might not otherwise be able to attend the meeting. This award is not focused on recognizing outstanding student research or service to the American Fisheries Society or its subunits."

"The NCD Student Travel Grant Program is only in its third year, and this is only the second year that funds have been available to support one student from each of the 14 chapters within the NCD." Including Iowa, only 8 chapters took advantage of the 1994 Student Travel Grant program. The Iowa recipient of last years grant was Mike Kaminski.

For an application or for more information, please contact Bernie Schonhoff (319) 263-5062 during the day, or write him at:

Fairport Fish Hatchery
3390 Highway 22
Muscatine, IA 52761

Other News

For those of you too busy hook-and-line sampling to read your latest issue of *Fisheries* magazine, you might want to take notice of page 32. Our own **Michael Kaminski** brought to the attention of parent society members our Chapter's efforts to improve student involvement. Thanks Mike for carrying the Chapter's torch!

AFS 2000 Campaign Kick Off

by Lee Redmond, AFS President

In March at Biloxi, Mississippi, the Executive Committee unanimously endorsed *AFS 2000*, a 125th Anniversary Campaign to increase our publication endowment and to meet our spatial and electronic needs for 21st-century communications. The intent is to raise \$350,000 through membership pledges to reach the campaign goal of \$1,250,000.

The proceeds from *AFS 2000* will fund a computer upgrade (\$225,000), retire the mortgage on our the office space and fund fix-up costs (\$125,000), and will augment our publication endowment (\$900,000). Through a \$2 allocation from each book sale, the endowment fund AFS started 8 years ago has accrued a balance of \$108,000.

Nick Parker and Jim Gracie are Co-Chairs of this 5-year campaign. Nick will direct efforts internally to raise \$350,000 from society members. Jim will lead the external fundraising effort to Friends of AFS to raise the remaining \$900,000 of our goal through matching grants and through contributions from individuals, foundations, and the corporate sector.

Two or three representatives from each division will serve on the *AFS 2000* Campaign Committee. The Campaign Committee will oversee the Division-Level Committee, a sub-committee composed of one to two representatives from each chapter. Both committees will actively promote the campaign.

The formal campaign kick-off began in May. Iowa chapter members are encouraged to participate and to watch for updates in *The Diary* in *Fisheries*. Members will be invited to make a pledge that they may pay in a period of up to five years. They can also request annual pledge reminders in the month they prefer.

Pledge participation and willingness to sacrifice for our organization reflects our membership's commitment to AFS and our increased vigor. This dedication will be our greatest asset as we seek

support from Friends of AFS to leverage our donations by more than 2:1.

In addition, we will award two fishing trips at the AFS Holiday party in December. One will be awarded to the chapter with the highest percentage of members who pledged \$125 or more by December 15th. This trip can be used for the chapter's benefit such as a fund-raising raffle. The baseline membership figures will be taken May 1st. Another fishing trip will be awarded to the member who recruits the most colleagues to pledge \$125 or more by December 15th. Any member who would like to support *AFS 2000* is eligible to receive an enrollment packet and to help recruit pledges.



Knowledge and information are at the heart of what we do; they allow us to become better stewards of fishery resources and to engender public support for them. *AFS 2000* is the most effectual program we can conduct to assure and strengthen our science-based communications. Enlarging the publications endowment is the campaign's major objective. Through grants and revolving loans, a well-capitalized endowment will free AFS from total reliance on outside funders and will facilitate production of the specialized publications our members need. The trust will also keep AFS at the forefront of communication, helping

us secure the modern electronics and the space we require to disseminate fisheries information.

Another benefit of *AFS 2000* is that it will reduce current and future product service costs to our members. For instance, AFS office ownership now saves AFS members \$10 per year in lease payment savings. Likewise, a large publication endowment will enable us to keep our book prices low.

As we celebrate AFS's first 125 years of accomplishments, *AFS 2000* offers us an opportunity to prepare ourselves for the next 125.