



LATERAL LINES

VOLUME 13, NO. 1 NOVEMBER, 1996

THE NEWSLETTER OF THE IOWA CHAPTER OF THE AMERICAN FISHERIES SOCIETY

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PRESIDENT'S CORNER

Greetings from the "Oval Office". As your newly elected Chapter President, I can only remember one campaign promise: Never go back to the Hotel from Hell! Or was it Siberia? As I read through the "pile" of AFS Chapter materials and ponder my responsibilities for the upcoming year, I can't help notice the sheer number or different activities and initiatives that AFS members are involved in. So my challenge to all Chapter members for the coming year is to **Get Involved!** The old adage: You only get out of something what you put into it - is definitely one of life's truisms.

The keyword for planning this years Chapter meeting has been "flexibility". As you probably already heard, our original plan to have the Chapter business meeting in conjunction with the 58th Midwest in Omaha fell through.

We have decided to have the Chapter business meeting in conjunction with the fisheries Statewide meeting in March. Details can be found elsewhere in this newsletter.

Although some will consider this a cop-out, I promise to be more involved with the joint meeting with Wisconsin in 1998.

One of the main topics for this years business meeting will be an update and discussion concerning our Chapters involvement with *Catfish 2000*. The 1st International Ictalurid Symposium & Sports Show is scheduled for June 1998 in Davenport. Co-sponsors thus far include: the Iowa and Illinois AFS Chapters, Quad Cities Conservation Alliance (QCCA), Upper Mississippi Conservation Committee (UMRCC), and In-Fisherman, Inc. I think that *Catfish 2000* will be a great opportunity for our Chapter members to get involved with a major fisheries symposium.

Finally, I'm looking forward to serving as your Chapter President for the upcoming year. I'm willing to discuss or get involved with any activity or issue that would benefit our Chapter or Society. **TOGETHER - LET'S GET INVOLVED!** 🐟

INSIDE

President's Corner	Page 1
What Does \$71.50 Do for Me?	Pages 2 & 3
Elections Usher in New EXCOM	Page 4
Book Review - Fisheries Techniques, 2nd	Page 4
News from ISU	Page 5
Chapter Business Meeting Announcement	Page 6
Business Meeting Minutes	Pages 7-8
Brain Teasers	Page 9
Meetings of Interest	Page 10

Tom



What Does \$71.50 Do for Me?



Brad Newcomb of the Nebraska Chapter recently wrote Paul Brouha a letter regarding the sparse membership in the parent society from it's members. Newcomb asked Brouha to justify the cost of parent society membership and emphasize the benefits. The following is Brouha's open letter response.

Dear Member,

Thank you for your letter concerning the price of AFS membership. Your opinion does matter and I appreciate the opportunity to address he issues you have raised.

Where does your membership money go? Well the answer is:

\$33.00 Fisheries
\$33.00 Membership/subunit services
\$ 2.00 Chapter rebate
\$ 6.80 Division rebate
\$74.80 (1995 dues were \$68.00)

FISHERIES includes printing, postage, staff costs, and administrative costs. Advertising revenues subsidize about 40% of this cost which would modify the above to:

\$19.30 Fisheries
\$33.00 Membership/subunit services
\$ 2.00 Chapter rebate
\$ 6.80 Division rebate
\$ 6.90 Program costs
\$68.00

You may not agree with the necessity of the magazine or the format and that is your right. I encourage you to tell us what you'd like changed -- we got the message on the Jobs Bulletin, but if they don't send in we can't create these jobs. I can hear you now asking what is this item titled membership/subunit services? I consists of a dedicated staff that does the following for

you and your profession: develops and maintains subunit databases, provides lists and labels for chapters and sections, collects dues and issues quarterly reports along with monies collected, provides the yearly AFS Directory, publishes the Annual Report, provides leadership training along with supporting manuals, manages the Society's volunteer database, develops the yearly program of work, supports and funds committee travel and meetings throughout the year, maintains listings of chapter and section meetings so all members are aware of subunit activities, administers several funds that support the Society's awards program, and that just scratches the surface.

A \$2.00 rebate for every AFS member is distributed to the chapter in whose geographic area they reside. These funds are used to support Chapter newsletter mailings and other activities. Ten percent of the active membership dues (except Life and Retired Members dues) is similarly distributed to each division at year end for analogous purposes. Thus 13% of your AFS dues goes directly back to your Chapter and Division.

Yes, you're correct when you state that registration fees should cover the costs of our annual meeting, but they do not do so deliberately in order to keep you costs down. The balance of the meeting funds come from corporate, federal, and state agencies, and local contributions we solicit (amount to \$30,000 or more for the AFS Annual Meeting). As funding is found for various events registration costs are reduced. As a

(Cont.)

member you are aware that you receive a discounted registration at these meetings.

The American Fisheries Society is a professional society run by a paid staff rather than relying wholly on volunteers. With its vast array of programs that include advancement of the science through the publication of books and scientific journals, education of decision makers and the public sector, support of the fisheries profession at federal and state levels, and development and administration of a strong fisheries network we are busy.

Other societies may have lower dues but they most likely are run by volunteers and do not have such an extensive program of work in place to advance their professional goals. The AFS dues structure is very much in line with other professional societies that are not run on a volunteer basis.

I do understand your concerns about the cost of funding the ambitious goals of the Society and that is why we offer special membership rates for students and half year specials. The membership committee is also investigating the possibility of a new category for lower paid entry level professionals and individuals who are employed in hatcheries at a technical level.

One specific benefit you may not be aware of that may well have made your job possible is the Society's role in "Rise to the Future", the 1980's initiative to strengthen the Forest Service Fisheries Program. AFS did a review of the Forest Service's Fisheries program in the early 80's and found it wanting and heading toward extinction. At our request the Chief chartered the RTTF Task Force which developed a national initiative in 1986. The Society and other fisheries interest groups have lobbied for increased funding and personnel for the program ever since. We have been loving critics--goading the Service about program and fiscal accountability, doing regional program reviews, and keeping the issue at the front of the Chief's mind. Under this stewardship the program went from 120 fish biologists to 380 and the budget from \$ 5 million to nearly \$ 50 million. We have fought to maintain this program in the face of reinvention, downsizing, and reorganization.

In closing, let me say I believe you have identified the key to the value of your membership when you stated you love the profession, love being a member and are at the point you can begin to contribute to the profession by becoming more involved in committees. One of the primary benefits of being a member of the American Fisheries Society is that you get out of it in direct proportion to what you contribute.

I welcome your thoughts on this matter and other matters and am pleased that you have renewed your membership. I hope to see you at one of the many meetings AFS holds throughout the year as well as seeing your name in print throughout your career for your many contributions of time and effort to the American Fisheries Society.

Sincerely,
Paul Brouha, Executive Director

10 BENEFITS OF BEING AN AFS MEMBER

- 1 Participate in one or more of 54 chapters, 21 sections, and 4 divisions, on technical subjects ranging from socioeconomics to computer use, and fish ecology
- 2 Receive Fisheries monthly and learn about science and resources issues, what is going on in the Society, and about developments in the profession.
- 3 Participate in and receive credits for continuing education units in fisheries through continuing education workshops.
- 4 Make your voice heard on important fishery policy issues.
- 5 Speak your mind in letters to the editor of Fisheries.
- 6 Receive a discount on registration fees at conventions, meetings, and continuing education programs.
- 7 Get to know lots and lots of other fisheries professionals -- one may have a new job for you!
- 8 Conduct fishery business at AFS meetings and conventions.
- 9 If you are a consulting fisheries professional, advertise your services in Fisheries at rates significantly below commercial advertising rate.
- 10 Purchase fishery resource books, fish photos, and videos at less than list price as a result of our discounts to members policy.



Elections Usher in New EXCOM

The Iowa Chapter has added some class with the election of Joe Morris as the new president-elect. His first official duty will begin as the program chair for the upcoming meeting in Council Bluffs. Joe has an easy job considering that there will be no program for the meeting. Joe, a Logan native, was a fish farmer outside Austin, Texas when he decided to chuck his waders and get his doctorate at Mississippi State in 1988. Since graduation, Joe has been the extension fisheries/aquaculture specialist at Iowa State University where he is an associate professor. Joe can be reached at his office in Ames at 515/294-6148.

In a close three way race, Chris Larson was the winner for Secretary/Treasurer. Chris has already taken control of the Chapter's checkbook and has been busy preparing for the upcoming business meeting. Chris, a Cedar Falls native, has worked full time for the DNR since 1986 at Clear Lake and Cold Springs where he works on small impoundment fisheries research. You can talk to Chris at 712/769-2587.

Special thanks to Mark Flammang, Gene Jones, and Scott Gritters for their participation in the election process as candidates and to Mike Steuck for his excellent work on the nominating committee.



Book Review

Fisheries Techniques, Second Edition

Brian R. Murphy and David W. Willis, editors

By Mark Flammang

The second edition of *Fisheries Techniques*, published in the spring of 1996, represents a complete revision of the first edition published in 1983. One notable change is the inclusion of a glossary. This portion is primarily aimed at improving the book as a teaching tool but provides easily-accessible information for any interested party. In addition, chapters on statistical handling of data and methods of handling invertebrates were added. Several other chapters were combined in a effort to consolidate related topics.

Additions were made in the chapter on electrofishing in an effort to keep astride the ever-changing technology. Discussions on electrofishing effectiveness and its relation to water conductivity, electroshocking effects on aquatic organisms, electroshocking systems, as well as boat layout will provide invaluable information for years to come.

The chapter entitled "Length, Weight, and Associated Structural Indices" provides the latest in published standards for calculation of condition and stock density indices. Furthermore, discussions on relations between these indices and fish population dynamics provide added support for their uses.

The chapter entitled "Statistical Techniques" outlines basic formats for data collection and interpretation. Discussions on data recording, data visualization (graphing), study design, as well as the use of descriptive statistics make up most of this chapter. All fisheries students and professionals will find this chapter useful in every-day statistical handling of data.

All other chapters were altered to some extent in an effort to maintain the timelines of the message. Even old standbys such as safety in fisheries work have additions. All-in-all the book is 732 pages in length, 264 pages longer than its predecessor. The book is available through AFS at \$44.00 a copy (\$73.00 for non-members). Any fisheries student or professional will find it an invaluable addition to their library.

Testing Bluegill's Nerve

Sheryl Beauvais is working on her dissertation with Gary Atchison investigating factors affecting the activity of cholinesterase (an enzyme needed by the nervous system to break down the neurotransmitter, acetylcholine, and which is inhibited by carbonate and organophosphorus insecticides). Bluegill were collected from a Mississippi River backwater and from a local pond; cholinesterase activity was not significantly affected by collection method (electrofishing and trap netting) or anesthesia by Finquel, but was affected by fish size; smaller fish tended to have higher activities. Other factors which may affect cholinesterase activity are currently being investigated using lab-cultured chironomids.

Dragonfly Nymphs and Wetland Mesocosms

Work on diet switching, optimal foraging and the effects of an organophosphorus insecticide on the functional response of dragonfly nymphs is being conducted by PhD student **Sandra K. Brewer** and Gary Atchison. Other projects Brewer is working on include a two-part wetlands project. The first aspect of the project compares invertebrate communities in wetland mesocosms to those in natural systems to see how well mesocosms simulate wetland processes and structure for use in ecotoxicology studies. The second component in the wetlands work is the effects of drawdowns on macroinvertebrate communities. She is also involved with a biomonitoring study identifying potential contaminant problems in a national wildlife refuge.

Hot Off the Press

Walleye Culture Manual

NCRAC Culture Series 101

The latest edition of the NCRAC culture series is now available. This manual covers all phases of walleye culture including spawning, hatching, intensive culture of fry on formulated feed, pond-culture of fry to fingerlings, training pond-reared fingerlings to formulated feed, rearing fingerlings for the food market, and economics and marketing. This 415-page book is available in a bound version or a 3-hole punch notebook insert version from ISU Extension distribution for only \$19.00 + \$5.95 S&H at (515) 294-5247.

Available in February, 1997

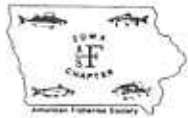
Handbook of Freshwater Fishery Biology Volume III

By Kenneth D. Carlander

These volumes have, for almost 30 years, been the most readily available source listing the scattered articles, theses, bulletins, and research on freshwater fish in the US and Canada. This volume includes Ichthyopercids and Percids; including white and yellow perch, white, yellow, striped and hybrid bass, darters, walleyes, and saugers. This handbook summarizes the available data on age, growth, length-weight, fecundity, reproductive behavior, feeding habits, and necessary environment for each freshwater species. The comparison of species is presented in a manner easily used by fisheries managers and biologists. To reserve your copy for \$49.95 + \$4.00 S&H from the Iowa State University Press call 1-800-862-6657 and ask for book #2999.



Like a phoenix rising from the ashes of the foiled Midwest joint meeting,
the Excom proudly announces....



Iowa Chapter AFS



Springbrook Spectacular!!!

The Iowa Chapter Excom has deep-sixed the joint Iowa Chapter business meeting with the Midwest Conference. The Midwest will still go on as planned but our business meeting has been moved to coincide with the DNR fisheries bureau Statewide meeting at the Springbrook Educational Center on March 3rd, 1997 at 7:00pm in the classroom building. It's been said that desperate times require desperate measures, President Boland canned our meeting because many of the Chapter members would not have expenses paid in Council Bluffs resulting in dismal attendance and an all around bummer of a time. By moving it to Springbrook everyone can attend and maybe our Chapter can recruit a few new members in the process. Free lodging will be provided for students on the night of the 3rd.

**All Iowa Chapter of the American Fisheries Society plans
for the 58th Midwest Fish & Wildlife Conference in Omaha
have been Canceled**

If you still plan on attending the Midwest, you will need to make hotel reservations on your own!

If you can't make the meeting you can still remain an
Iowa Chapter AFS Member.



To renew your membership, fill out the information below and send
it with a \$5.00 check (payable to the *Iowa Chapter AFS*) to:

Chris Larson, Iowa AFS Sec/Treas.
Iowa DNR, Cold Springs Park
Lewis, IA 51544

Name: _____
Street: _____
City: _____ State: _____ Zip: _____
Phone: _____ Fax: _____

Minutes for the Iowa Chapter Business Meeting
January 30, 1996
Council Bluffs, Iowa

The annual business meeting was called to order by Gary Siegwarth, president. Sixty seven members were in attendance.

Approval for the 1994 business meeting minutes was requested. Dick McWilliams made a motion to accept the minutes, Tom Gengerke seconded and the motion carried.

Awards were given to Bernie Schonhoff (past-president), Tom McCarthy (sec/treas), Mike Mason (newsletter editor), and Brian Bristow (best paper).

The treasurer's report was summarized and concluded a balance of \$3,718.94 as of 15 September 1995. Mike Steuck made a motion to approve the treasurer's report and it was seconded by Jerry Hudson and the motion carried.

Guest Speakers

Darrel Feit of Nebraska Parks and Game invited the members of the Iowa Chapter to attend the Midwest Fish and Wildlife meeting at the Red Lion in Omaha next December. The theme of the meeting is "Sensible Management of Today's Altered Ecosystems" and will feature a tour of the Henry Doorly Zoo.

Lee Redmond, past president of the AFS, said the AFS 2000 campaign has reached \$100,000 pledged out of the \$335,000 that is to come from within the societies' membership. Lee highlighted the accomplishments of AFS last year including reshaping the executive committee's duties from day-to-day management to policy-making and changing its name to the Governing Board. The AFS continued toward the goals of the seven year strategic plan and created a resource policy handbook. Lee voiced concern with ethics and professionalism and announced formation of a committee to observe how other professional organizations handle ethical violations. He said this was a result of several potential lawsuits against the AFS parent society from poorly done professional work by several certified fisheries scientist.

Redmond then outlined the major goals of 1996 which include; increasing the profile of the AFS in Canada, increasing the diversity of membership, increasing advocacy using peer reviewed science to educate policy and decision makers, and upgrading members skills through continuing education. A goal for each Chapter is to sponsor a continuing education course this year. He then spoke of the new special management committee which is made up of five officers and four elected governing board members and two division presidents. This committee will address the day to day issues that were once taken care of by the executive committee. Lee invited the membership to attend the meeting in August at Dearborn, the topic is "Sustainable Fisheries, Economics, Ecology, and Ethics".

Tom Coon, North Central Division President and native Iowan, emphasized the value of participation in the AFS and encouraged members to become active in the technical committees. He applauded the Iowa Chapter's efforts in financially supporting students to attend the business meeting. Coon also voiced concern that Canadian fisheries professionals may decide to make their own division. He said that 30 - 40% of the NCD is made up of Canadian members.

Committee Reports

AFS 2000 - Gary Siegwarth outlined the objectives of the AFS 2000 campaign which is to secure 1.25 million dollars by the year 2000, \$335,000 through pledges in the membership and \$900,000 in matching funds from outside sources. All funds are earmarked for securing the future of fisheries information transfer through publications and communications. Information packets were distributed at registration for the meeting and members making pledges received stickers for their name tags. Gary motioned that the Iowa

Chapter become a sponsor of AFS 2000 at the \$250 level which was seconded by Tom Gengerke and it carried.

Membership Committee: Chair Bernard Schonhoff noted that last year the Chapter had 88 paid members. So far in 1995, 96 members were recorded thanks to an increase in participation from University students.

Resolutions Committee: Chair Marion Conover reported that no resolutions had come to his attention. Gary Siegwarth then suggested that our Chapter change the format for wording resolutions into straightforward language, skipping all of the "whereas, etc." similar to what the Illinois Chapter has done.

REAP Committee: Chair Dick McWilliams encouraged Chapter members to attend local REAP meetings in an effort to increase the magnitude of support for the program at the grass roots level. He said that Iowa State University is working on a project to promote the REAP program and that REAP license plate sales generate \$250,000 annually. A complete report was submitted to the Excom.

Continuing Education Committee: Chair Joe Morris passed out a list of workshops that will be held around the midwest this year. He requested input from the membership on what they would like to see our Chapter put together. After some discussion, it was decided that the Continuing Ed Chair should send out a direct mailing questionnaire on the workshops to Chapter members.

Student Affairs Committee: Chair Mike Kaminski thanked the Chapter on behalf of Jeff Kopaska, 1995 recipient, for the \$100.00 scholarship. He said that only nine of the 14 NCD states used the student travel grant money in 1995. Kaminski brought up the idea of designating a faculty coordinator to get students to the business meeting. Bob Summerfelt and Joe Morris volunteered to act as coordinators to facilitate continued student support. Bob Summerfelt then thanked Gary Siegwarth for his continued support of students through presentations and open communication with the University.
Nominations Committee: Chair Mike Steuck asked for members to volunteer their names be put on the ballot for the new Chapter officers. He reminded members that to run for office, they must belong to the parent society.

Best Paper Award Committee: Chair Steve Waters stated that this years committee will have a difficult time selecting a best paper this year because of the high quality of the presentations.

Newsletter: Newsletter editor Mark Cornish thanked those who contributed to the three newsletter this past year. He encouraged student participation in writing a page of each newsletter and will be contacting either Bob Summerfelt or Joe Morris as faculty liaison to pass out writing assignments to students. Mike Kaminski offered the idea that a personnel profile be included in each newsletter.

Education Committee: Chair Tom Boland had nothing new to report but emphasized the need for fisheries professionals to involve the public in what we do. Tom believes that "education is one of the most important things we do". He suggested that generating pamphlets concerning the fisheries of the State would be useful.

Other Committees: Gary Siegwarth then thanked members Mark Winn for helping with the social, Lannie Miller for organizing the White Elephant auction, Gene Jones and Scott Gritters for helping with the raffle and Ken Snyder for putting together the raffle poster.

Other Items

Iowa Women in Natural Resources: After a brief discussion of Becoming an Outdoor Woman, Kay Hill motioned that the Chapter should contribute

the same amount as was contributed previously (\$100.00) for scholarships. The motion was seconded by Bernie Schonhoff and passed.

Iowa Environmental Council: Mart Konrad updated Chapter members on the activity of the Iowa Environmental Council. Mart represents the Iowa Chapter on the Board of Directors of this aggregation of 38 environmental groups. In the past year the IEC has lobbied on issues of livestock confinements and against the takings bill in 1995. Konrad motioned to retain our Chapter's membership at \$100.00 and volunteered to keep his position on the Board of Directors as the Iowa Chapter's representative. Lannie Miller seconded the motion and it carried.

Iowans for Better Fisheries: Mart Konrad then spoke of Iowans for Better Fisheries, noting that the annual banquet will be on March 2nd, 1996. He said the IBF will be busy this year promoting passage of the State Constitutional amendment protecting the Fish and Wildlife Trust Fund. The goal of IBF is to raise \$42,000 for advertising in support of the amendment. The IBF has been in contact with Ducks Unlimited and the Turkey Federation to bolster financial support for this advertising. In 1995 the IBF lobbied on livestock confinement issues and in 1996 they will be lobbying on legislation to remove the motor restrictions from Big Creek and Lake MacBride during the summer months. Gary Siegwarth urged individual Chapter members to join IBF.

Friends of Natural Resources: Mart Konrad informed the Chapter of the DNR's efforts to invite environmental groups to the central office in Des Moines to inform them of current issues and gather their support for legislation.

Issues in the Iowa Legislature: Konrad then spoke of pertinent legislation in the Iowa Congress. Two bills likely to come up for vote include the *implied consent law* which applies the drunk driving laws to boaters and the *timber bonding* issue. Other bills that may come up in this years session include; the Federal *teaming with wildlife* bill which is called the *wildlife diversity* bill at the State level, the *management of introduction of exotic species* bill which has provisions for Eurasian water milfoil, the *lake restorations* bill which would replace the Federal *clean lakes* program, the *takings* bill, the *motor size restriction* bill on Big Creek and Lake MacBride, and finally the *right of way* bill, introduced by State Representative Joe Kramer, which removes the trespass laws to those who like to wade and fish streams. Gary Siegwarth emphasized the need to support this last bill known as HF 2003.

Forest Congress: Kim Bogenschultz was to update the Chapter on the Congress but was unable to attend the business meeting.

Fish and Wildlife Trust Fund Constitutional Amendment: Marion Conover told the Chapter that the amendment will be on the ballot in November. It requires a 50% majority vote from the electorate to pass. Conover believes that it will pass but still encourages Chapter members to promote the amendment when speaking to groups and organizations.

Wildlife Diversity: Gary Siegwarth alerted the Chapter to legislation for an excise tax on outdoor equipment. This tax will create a pool of federal matching funds that States could use on wildlife projects.

Missouri River Coalition : Tom Gengerke had no update on the Missouri River Coalition.

Catfish Symposium: Tom Boland informed the Chapter about the catfish symposium proposed for 1998. He mentioned that other host groups might include the DNR, the AFS parent society, the Illinois Chapter, the Quad-City Conservation Alliance (QCCA), the In-Fisherman, and the Upper Mississippi River Conservation Committee (UMRCC). A steering committee meeting will be held in Davenport on April 3rd at the River Center. Boland proposed a 3-day symposium including catfish research, management, and culture on a national basis and trying to relate it to an audience that would include the

general public. He proposed doing this through a sport show and fishing tournament.

Old Business

Conservation Reserve Program (CRP): Gary Siegwarth updated the Chapter on the efforts of the AFS Rivers and Streams group to rally support for CRP by emphasizing the benefits of the riparian buffer strips. Two Federal bills exist for saving the program but Gary did not feel that the future of the program was "rosy". As individuals, Gary emphasized that we should let our legislators know the environmental and economic benefits of this program.

Funding Support for Carlander's volume 3: Joe Morris informed the Chapter that he was actively pursuing the \$2700.00 needed to prepare Carlander's volume 3 for printing by the Iowa State University Press. He was contacting Dr. Carlander's former graduate students, current ISU faculty, current students, and anyone else in order to raise the funds for publication.

He made a motion that the Iowa Chapter donate \$400.00 to the Kenneth D. Carlander fund for printing of Carlander's volume 3. The motion was seconded by Bob Summerfelt. The Chapter discussed the motion and question arose about what happens to profits from the book. Morris responded that profits would go to the Carlander trust fund at the Department of Animal Ecology. Summerfelt noted that there are no profit on sales of the first 2000 books and after that there's only a \$2 per book profit on the next 2000 books. Based on sales of the first two volumes, he did not believe that enough copies of the book would be sold to return a significant profit. The motion was put to a vote and passed. Joe assured members an acknowledgment of the Chapter's donation would be printed in the book.

Don't Push It Down Our Throats! Campaign - John Pitlo updated the Chapter on public meetings on navigation expansion in the Mississippi River. Pitlo is looking at putting together a position paper from the Iowa Chapter against Corps navigation study. Siegwarth offered to ask the parent society if they would support it also. After some discussion, the Chapter supported a letter but could not agree when the letter should be sent. Siegwarth vowed to work on the timing of the letter at some other time during the calendar year.

New Business

Investment of Chapter Funds - Mark Cornish made a motion that we put the Chapter's "extra" money into a Certificate of Deposit to achieve higher interest rates. Extra money was defined as the money above the amount which will allow us to operate throughout the year while still maintaining a minimum of \$500.00 in our NOW checking account to avoid an interest penalty. The motion was seconded by Larry Mitzner and carried.

Mobile Chapter Exhibit - Gary Siegwarth suggested that the Chapter look into getting a movable exhibit, similar to what the Iowa Wildlife Society has. The exhibit would be used at conferences to increase the Chapter's profile and as an educational tool.

Future Meetings - Siegwarth urged to Chapter to plan meetings further in advance because things are getting booked up. Mike Steuck motioned that we meet with Wisconsin in 1998, John Pitlo seconded and the motion carried. Kay Hill motioned that we have our business meeting in conjunction with the Midwest Fish and Wildlife Convention. Siegwarth stated that the Excom would pursue it and the motion was not voted on.

The Chapter drew for the early bird raffle of the Joe Tomelleri print of a smallmouth bass. The first name drawn was Joe Schwartz but since he was not present he was not awarded the prize. Marion Conover's name was then pulled from the hat as the winner.

Kay Hill then motioned for adjournment it was seconded by all in attendance and the motion carried.

Respectfully Submitted,
Mark A. Cornish, Sec/Tre

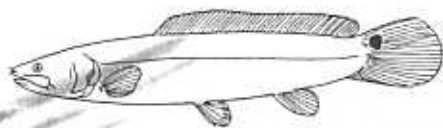
Angler Angst

Match the Common Name to the Scientific Name

Common Name	Scientific Name
1 Slimy Sculpin	A. <i>Cyprinus carpio</i>
2 Green Sunfish	B. <i>Semotilus atromaculatus</i>
3 Quillback Carpsucker	C. <i>Hypentelium nigricans</i>
4 Common Carp	D. <i>Lepomis cyanellus</i>
5 Northern Hog Sucker	E. <i>Carassius auratus</i>
6 Goldfish	F. <i>Carpoides cyprinus</i>
7 Creek Chub	G. <i>Dorosoma cepedianum</i>
8 Black Bullhead	H. <i>Cottus cognatus</i>
9 Gizzard Shad	I. <i>Ictalurus melas</i>
10 Smallmouth Buffalo	J. <i>Ictiobus bubalus</i>

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

1 correct Tournament Bass Angler; 2-3 "I don't get out much";
4-5 Crankbaitist; 6-7 Worm Wrassler,
8-9 Trailer Trash; 10 Dough-ball Don



Did You Know?

✓ For Every 18°F increase in water temperature, there is a doubling of metabolic rate in fish, and as a result, an increase in oxygen demand.

✓ Within the ranges of their optimal water temperatures, the energy requirements of warmwater fish are greater than those of equally active coldwater fish of the same size.

✓ The metabolic rate is 100% for salmon at 50°F, 59°F for trout and 85°F for channel catfish.

✓ Fish normally use about 70% of the dietary energy for maintenance of their biological systems and activity, leaving about 30% available for growth.

✓ Fish fed wet feeds containing meat or fish products tend to deposit higher levels of body fat and have soft textured flesh, whereas those fed dry feeds have a more desirable flavor and firmer flesh.

✓ Paprika fed at 2% of the feed will improve the coloration of brook trout. Corn gluten meal, dried egg products, and alfalfa meal will increase yellow pigmentation of brown trout skin.

Information from Piper et al. 1982. *Fish Hatchery Management*



Brain Teasers

Where Am I?

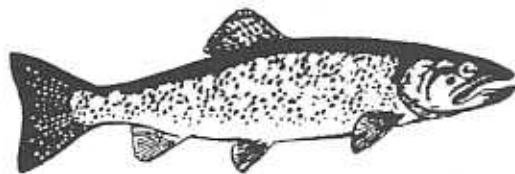
Match the DNR Station to the town

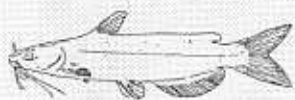
Station	Town
1 Cold Springs	A. Brighton
2 MacBride	B. Orleans
3 Lake Darling	C. Lake View
4 Big Spring	D. Des Moines <small>(10 demerits for missing this one!)</small>
5 Spirit Lake	E. Chariton
6 Rathbun	F. Elkader
7 Red Haw	G. Moravia
8 Springbrook	H. Lewis
9 Black Hawk	I. Yale
10 Central Office	J. Solon

Answers

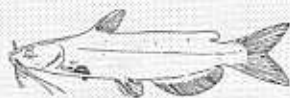
1-H; 2-J; 3-A; 4-F; 5-B; 6-G; 7-E; 8-I; 9-C; 10-D

1-3 correct - "Just passin' through"; 4-6 Summer Helper;
7-9 Part-timer; 10 Lifer





Meetings of Interest



Nov 13-16 North American Lake Management Society (NALMS) 16th Annual International Symposium. Radisson hotel South, Minneapolis, Minnesota. Contact NALMS, P.O. Box 101294, Denver, CO 80250, 303/781-8287; FAX 303/781-6538

Dec 8-11, 1996 Annual Meeting of the AFS North Central Division. Omaha, Nebraska. Contact Jim Diana, School of Natural Resources, University of Michigan, Ann Arbor, MI 48109, 313/763-5834

Dec 9, 1996 Annual Meeting of the Iowa Chapter of the American Fisheries Society. Harvey's Hotel, Council Bluffs, Iowa. Contact Tom Boland, Iowa Department of Natural Resources, Bellevue Fisheries Management, 24143 Highway 52, Bellevue, IA 52031. 319/872-4976 FAX

Jan 14-16, 1997 1st Annual Conference on Natural Resources of the Missouri River Basin. Columbia, Missouri. Contact Mark Lastrup, Midwest Science Center. 573/875-5399 (ext. 1703)

Feb 4-5, 1997 Mid-Continent Warmwater Fish Culture Workshop, Holiday Inn-North, Springfield, Missouri. Contact M. LeRoy Heman, Missouri Department of Conservation, P.O. Box 180, Jefferson City, MO 65102-0180; 573/751-4115

Aug 24-28, 1997 The 127th Annual Meeting of the AFS. Montgomery Convention Center, Doubletree and Marriot Hotels, Monterey, California. Contact Paul Brouha, AFS, 5410 Grosvenor Lane, Suite 110, Bethesda, MD 20814; 301/897-8616 (ext. 209) FAX 573/526-4047

Jan 1998 Iowa-Wisconsin Joint Annual AFS Chapter Meeting. McGregor-Prairie du Chien area. Contact Joe Morris, Department of Animal Ecology, 124 Science II, Iowa State University, Ames Iowa 50011-3221. 515/294-6148 FAX 515/294-7874

June 24-27, 1998 Catfish 2000, the First international Ictalurid Symposium & Sports Show. Davenport, Iowa. Contact Tom Boland, Iowa Department of Natural Resources, Bellevue Fisheries Management, 24143 Highway 52, Bellevue, IA 52031. 319/872-4976 FAX 319/872-4945

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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