

The Tributary

A Newsletter of the Western Division, American Fisheries Society

Volume 17, No. 1/November 1991

THE PRESIDENT'S CORNER

Hi! I'm your new Western Division AFS President Don Chase. (Don't turn the page, there's good stuff here!)

If you were at last year's Western Division meeting in Bozeman, you would have seen an amazing group of talented individuals. I'm not talking ordinary "fish heads" here. I'm talking about hard-working folks whose interest in fisheries takes them beyond their jobs and recreation, into volunteerism. Who am I talking about? The "Blame Me" guys - past AFS Western Division presidents. I felt humbled with the amount of talent, energy and wisdom that was present with these individuals. Then it dawned on me: I'm going to be one, too! How in the heck did I get here? I can't match these guys. I was truly shaken. On the long drive home, it became clear to me that these people only represent the Western Division and all of their hard work, vision and diligence comes from all of the members — you and me. I started to feel better.

As my WDAFS presidential year takes shape, I hope and pray that I can match their previous efforts and truly represent the Western Division membership. It is already becoming intense as issues, e.g. Columbia River salmon endangered species process, redefinition of wetlands, etc., need and require attention. When I write a response, or a letter, I do so with the interests of over 3,000 fisheries professionals. As WDAFS president, I cannot do the bureaucratic thing — "pass the buck" — because it stops with me.

I do need help though, because remember the strength of the WDAFS presidency is with its members, you and me. As I see it, I have two paths to choose from, an autocratic one and a democratic one. Which one I take depends on you the members. If I get no response or feedback, I will put my royal robes on, check with the royal court (WDAFS executive officers) and make an autocratic decision or response on what I feel is best for the WDAFS. However, from your interest and response I will feel compelled to make a decision/response that best suits all of us. So share with me your fisheries issues, and share with me your thoughts, together we'll make some beautiful music. And then, next July you can "Blame Me." Keep the tarboiling and the feathers fresh.

EXECUTIVE COMMITTEE TRAVELS

In order to reach the members and to find out what's going on in the Western Division, Don Chase, Glenn Phillips, Randy Bailey and Dave Burns will be traveling to the various WDAFS Chapter meetings. So you can see your WDAFS excom in action. Here is a schedule of their travels. See you there!

- Alaska Chapter, Ketchikan, November 18-21: Chase
- Arizona/New Mexico Chapter, Thatcher, AZ, January 30-February 1: Chase
- Bonneville Chapter, Grand Junction, CO, February 26-28: Phillips (meeting jointly with the Colorado/Wyoming Chapter)
- California/Nevada Chapter, Redding, CA, February 6-8: Bailey
- Colorado/Wyoming Chapter, Grand Junction, CO, February 26-28: Phillips (meeting jointly with Bonneville Chapter)
- Hawaii Chapter (no response?)
- Humboldt Chapter, Arcata, April 4: Phillips
- Idaho Chapter, McCall, March 12-14: Burns
- Montana Chapter, Fairmont Hot Springs, February 3-7: Chase, Phillips, Burns, Bailey, Starnes (WDAFS Mid-term meeting)
- North Pacific International Chapter, Bellingham, WA, March 18-20: Chase
- Oregon Chapter, Bend, February 12-14: Chase

SOCIETY NEWS

RIPARIAN CHALLENGE GOES ANNUAL

At the annual meeting in Bozeman, the Division voted to make the Riparian Challenge an annual event. The awards, presented in July 1992, are for work done in the 1991 calendar year.

A continuing concern of the membership is how the major federal land management agencies are managing riparian areas in the West. Our Riparian Challenge encourages the U.S. Forest Service and the Bureau of Land Management to strive for excellence in riparian habitat management by giving agency personnel, managers and resource specialists some recognition for on-the-ground accomplishments which are aimed at maintaining, restoring, and improving riparian ecosystems.

A total of 13 Forest Service Ranger Districts submitted 48 projects, and 11 BLM Resource Areas submitted 94 projects in 1991. Awards were given to field offices for their on-the-ground work. The awards were given to the higher administrative offices based on the total submissions of their subordinate offices to recognize their managerial leadership and their financial and moral support. The following were the 1991 Riparian Challenge Award recipients in their respective categories:

U.S. Forest Service
Lowell Ranger District
Medicine Bow National Forest
Pacific Northwest Region

Bureau of Land Management
Wells Resource Area
Elko District Office
Nevada State Office

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The Tributary is distributed to 3,000 WDAFS members and exists as a forum to present fisheries-related information. As the editor, I cannot accomplish this goal unless YOU participate! The WDAFS publishes three editions of *The Tributary* yearly.

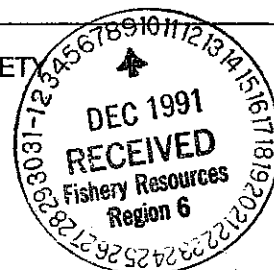
Deadlines for submission of articles are February 15 (for the Winter issue), May 20 (for the Spring issue) and October 15 (for the fall issue).

If you have information you would like included in *The Tributary*, send it to:

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002755 DL 9812
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Denver Federal Center
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Denver CO 80228



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RIPARIAN LIBRARY

The Western Division maintains a riparian library. The following materials are available for loan:

Publications

Haugen, Gordon, et al. 1980. *Management and Protection of Western Riparian Stream Ecosystems*. Western Division, American Fisheries Society. October, 1980. 24 p. (5 copies)

Videos (VHS)

Elmore, Wayne. *American Fisheries Conference in Montana*. 26:51 minutes.

Meyers, Lew. *American Fisheries Conference in Montana*. 22:27 minutes.

Platts, Bill. *American Fisheries Conference in Montana*. 37:22 minutes.

Smith, Bruce. *Restoration of Riparian Habitats Using Nature's Engineer — The Beaver*. Bureau of Land Management, Rock Springs, Wyoming.

Elmore, Wayne. 1985. *Riparian Area Management*. Idaho State Office, Bureau of Land Management, Riparian Workshop, July 1, 1985. 38 minutes.

Platts, Bill, and Allen Thomas. 1987. *Riparian-Grazing Interactions: Effects of Livestock Grazing Strategies*. Public Affairs, Idaho State Office, Bureau of Land Management, May 1987. 26:35.

Elmore, Wayne. *Riparian Management — A Challenge for Our Future*. Bureau of Land Management, Oregon.

Slide Shows

WAFS. 1985. *Management and Protection of Western Stream Ecosystems*. Western Division, American Fisheries Society, Riparian Habitat A/V Subcommittee. Slide Series (two sets of slides), 3 automatic cassettes, one original tape. January 1985. 18 minutes.

BLM. 1987 *Riparian Areas: Managing Our Ribbons of Green*. Bureau of Land Management, Washington, D.C. 74 slides, February 1987 (with automated cassette).

Sweep, Donald H., et al 1985. *Integration of Riparian Systems Management Strategies Within the Context of Multiple Use Management Programs in Southwestern Wyoming*. Prepared for the Riparian Ecosystem Management Conference, University of Arizona, April 16-18, 1985. 74 slides. (with automated cassette).

Anyone wishing to borrow any of these resources should contact Allan Thomas, Bureau of Land Management, Idaho State Office, 3380 Americana Terrace, Boise, Idaho 83706, or call 208/384-3066.

FISHERIES HISTORY IN THE FUTURE

An AFS Fisheries History Section is being formed and is looking for prospective members. Some objectives of the proposed section include the preservation and protection of fisheries artifacts, records and related archives. Also of importance is the interpretation of history materials to promote fisheries and its heritage.

Section membership is \$2.00. Send your name, address, phone number and areas of interest to Arden Trandahl, D.C. Booth Historic Fish Hatchery, 423 Hatchery Circle, Spearfish, South Dakota 57783. For more information call Rick Martens at 319/927-3276.

YES!! CANADIAN AQUATIC RESOURCES SECTION

The American Fisheries Society announces the formation of the Canadian Aquatic Resources Section. Any active or affiliate member of AFS with an interest in Canadian issues is invited to join the Section and become involved in Canadian and trans-boundary aquatic resource issues. The objectives of the Section are to accomplish the following:

- Promote the conservation, development and wise management of aquatic resources in Canada, within the context of sound ecological principles and sustainability.
- Gather and disseminate information pertaining to fisheries and aquatic science in Canada.
- Promote the educational and technical aspects of the fisheries profession in Canada.
- Determine and respond to the specific needs of fisheries and aquatic scientists and practitioners in Canada.
- Provide coordination for review of and comment upon government-proposed legislation and policy.
- Facilitate Society policy development and review pertaining to Canadian aquatic resource issues.

The interim officers of the Section have identified a number of specific initiatives that are designed to contribute to fulfillment of these objectives. Committees established to support these initiatives include:

- Canadian Office Committee**
To further the establishment of a Canadian sub-office of AFS and investigate sources of long-term funding to support its operation.
- Program Committee**
To plan and organize Section meetings, symposia and workshops across Canada.
- Membership Committee**
To attract new members by monitoring the attitudes of Canadian members and recommending programs to address their needs.
- Environmental Concerns Committee**
To develop position papers and policy statements on Canadian and trans-boundary environmental issues.
- Name Change Committee**
To promote dialogue and educate Society members on the advantages of adopting a name

which better reflects the international stature of the AFS.

Terry Marshall and Don MacDonald are acting as interim President and President-Elect of the Canadian Aquatic Resources Section. They previously co-chaired the Canadian Concerns Committee, which over the past few years has addressed many of the above activities. An election of Section officers is planned once membership builds sufficiently — probably early in the new year. A slate of seven officers are required, including President, President-Elect, Vice-President, Immediate Past-President, Secretary-Treasurer, Newsletter Editor, and Assistant Newsletter Editor.

Advances realized by the Canadian Concerns Committee were the result of combined efforts of numerous individuals, and the support of the Canadian Aquatic Resources Section is now requested. All interested members are encouraged to participate on committees and to relay ideas for special initiatives. Please call, fax or write Terry or Don. This is an exciting time for the AFS in Canada, and the formation of the Canadian Aquatic Concerns Section should encourage expanded AFS membership and involvement.

To join the Section, please check off the box entitled Canadian on your current AFS Dues Notice, or send \$10.00 dues directly to the AFS office in Bethesda. Terry Marshall President (Acting) Canadian Aquatic Resources Section, Box 2089, Thunder Bay, Ontario P7B 5E7. Phone 807/683-6231, Fax 807/683-6232. Don MacDonald President-Elect (Acting), Canadian Aquatic Resources Section, 2376 Yellow Point Road, RR #3, Ladysmith, British Columbia V0R 2E0. Phone 604/722-3631, Fax 604/722-3651.

FISHERIES LAW SECTION

The new Fisheries Law Section of the American Fisheries Society held its first official business meeting Wednesday, September 11, 1991 at 8:30 AM in San Antonio, Texas at the Annual Meeting of the American Fisheries Society. The Section is seeking to increase public and professional awareness of the Fisheries Law Section, its purposes and to expand membership.

Development of the Section has been due in large part to critical legal issues impinging fisheries, such as the use of drift nets, TEDs, protection of resources, etc., which are surfacing daily and must be addressed in a competent forum that has both the awareness and expertise to rationally deal with the competing interests.

The Fisheries Law Section of the AFS is open to all AFS members in good standing. Its purposes are the following:

1. To educate members of the Section and fisheries professionals on matters of law, policy, and regulation involving fisheries.
2. To provide legislative analysis of bills that may have an impact on fisheries.
3. To act as a resource to the American Fisheries Society in the development and analysis of legal positions that are in consonance with the aims and goals of the Society.
4. To organize and conduct programs such as workshops, symposia, etc., dealing with issues in fisheries law.

Section dues are \$5.00 per annum and individuals interested in this Section should contact the American Fisheries Society at 301/897- 8616.

FIVE-YEAR MEMBERSHIP CHART

	1987	1988	1989	1990	1991
January	92	103	130	127	135
February	107	138	181	135	123
March	68	126	134	132	109
April	78	110	93	81	114
May	46	75	68	59	58
June	96	52	52	49	
July	86	63	76	93	
August	63	78	72	63	
September	90	139	243	130	
October	79	74	83	67	
November	83	86	71	87	
December	87	111	108	105	
Total New Members	975	1155	1311	1128	539
Delinquent	808	629	898	918	
NET GAIN	167	526	413	210	

THIS AND THAT AROUND THE WEST

ADVANCED LICENSING SYSTEM PLANS UNDERWAY IN MICHIGAN

Access to real time license information for fisheries managers and law enforcement officials in Michigan is set to begin next year, if plans to computerize the licensing system are approved by the state legislature. Under the proposed system, each license distributor is equipped with a computer terminal, similar to the credit card reporting terminals currently in use by many retailers, in which they would enter all of the license-buyer information at the time of sale. This is expected to result in substantial savings for both the State Department of Natural Resources and license dealers, while also providing a much more efficient database for managers.

Under the current system, license holders must obtain a "passbook" containing the individual's name, address, and other relevant information. For each activity (hunting, fishing, etc.) a stamp is purchased and attached to the passbook, which must be in possession of the license holder when s/he is in the field. The new system replaces the passbook with a driver's license and issues a tag for each activity. With licenses being printed at the site of purchase, the state would then be required to print only one generic tag form. This system should result in an 80 percent reduction in printing costs. For those individuals not possessing a driver's license, a sportsbook similar to the current passbook is available.

It is anticipated that within four years, all Michigan driver's licenses will be encoded with a barcode, virtually eliminating the need for dealers to handle key licensee information and providing a quicker, more accurate system for the retailer.

An additional bonus to sportsmen is an anticipated increase in the number of license sales outlets. Currently, Michigan has 2,200 license agents statewide. Under the new system, the state is able to accommodate a greater number of outlets. Additionally, licenses are available over the phone and through the mail.

For more information, contact Doug Jester, Michigan Department of Natural Resources, Fisheries Division, P.O. Box 30028, Lansing, Michigan 48909, 517/373-1280.

CANADA KICKS OFF GREEN PLAN

The Departments of the Environment and Fisheries and Oceans announced a program to revitalize Fraser River fisheries as a centerpiece of fisheries action under the Green Plan. The plan calls for a doubling of sockeye salmon populations from 1975-1986 average levels (from 8 million to 16 million fish). Specific targets for other species have yet to be identified. While the Fraser River Action Plan is the major Green Plan program on fisheries, several other initiatives are expected to benefit fisheries. These include efforts at reducing chemicals in the aquatic environment through improved chemical management and cleanup, a cleanup program for the Great Lakes and improvement of forestry management.

The six-year, \$100 million Fraser River Basin Action Plan features three major aspects: building partnerships, clean-up of the river and habitat restoration. Specific

programs include demonstration of sustainable development, pollution abatement efforts, increased enforcement of habitat provisions of the Fisheries Act and habitat improvement efforts including a program of increased spawning escapements and the establishment of water storage and release plans to ensure adequate stream flows for spawning beds and rearing areas. The plan also features a \$14 million research program focusing on an ecosystem approach. For more information, contact Fred Fraser, Dept. of Fisheries & Oceans, 555 W. Hastings St., Station 315, Vancouver, BC V6B5G3 CANADA. Phone 604/666-0346.

RECYCLING FISHING LINE

Many of us who are on the banks of streams, lakes and ponds as part of our daily routine, see the problem — tangled webs of used mono fishing line discarded by some thoughtless angler. While it may be impossible to pick up all this litter, picking up some, especially at the end of the work day in the field, sets a good example and removes at least part of the hazard and ugliness. Berkeley Fishing Tackle is sponsoring a national collection and recycling effort. Collection bins are available from them by calling (800) BERKLEY, ext. 320. With this program, we all can do a little more to protect the resource that we love and that attracted us to the fisheries profession in the first place.

MORE F.I.S.H. INVOLVEMENT NEEDED

Fishermen Involved in Saving Habitat (FISH), formed two years ago with the sole mission of conserving aquatic habitat, is a national coalition of groups whose members depend on, enjoy, study, and manage aquatic resources. Although the coalition has been effective in dealing with national issues, most habitat loss takes place at local and regional levels, and can be addressed most effectively by local action groups. A call is being issued to state AFS chapters and all other groups concerned with aquatic resources to form local FISH chapters. With the involvement of groups and individuals ranging from commercial and recreational fishermen to fisheries biologists, and armed with credible, factual information by fisheries professionals, FISH chapters would respond rapidly to local and regional threats to aquatic resources. FISH chapters are active in Ontario and Missouri, and are being formed in Texas, New Jersey, Virginia and Maryland. An article in the March-April 1991 issue of Fisheries offers good ideas for forming chapters. For more information on forming a FISH chapter in your area, call Les Stanfield in Southern Ontario at 705/645-8747 or Lee Redmond in Missouri at 314/751-4115.

ELECTROFISHING INFORMATION

A request has been received for information concerning the effects of electrofishing especially since this sampling tool may affect studying endangered or threatened species. Persons with written reports or personal observations are encouraged to contact Darrel E. Snyder, Larval Fish Laboratory, Colorado State University, Ft. Collins, CO 80523. Phone 303/491-5295; FAX 303/491-5051

NEW USE FOR FISH EGGS

Professor Perry Hackett and colleagues at the University of Minnesota announced their discovery that the beta-actin gene in fertilized carp eggs is nearly identical to the beta-actin gene in all vertebrates that is responsible for maintaining cell structure. If so, genetics researchers could use fertilized transgenic fish eggs, at a cost of \$3.00 each, instead of transgenic mice embryos costing from \$300 to \$3,000 each. Transgenic eggs are those that have been given extra DNA, the chemical that stores genetic information in most organisms. Hackett noted that fish eggs have the further advantage that they are much simpler to use in genetics research because they are easier to store, move, collect and grow than fertilized mammal embryos.

ADOPT-A-WETLAND

EPA has introduced a program this fall to educate and involve children in wetlands protection. The project, geared towards middle school students, features a 20-25 minute video for children and a workbook for teachers. The program utilizes a hands-on, experiential approach to teaching children wetlands ecology, the value of the resource, and how they can make a difference protecting an area in their own community through stewardship activities conducted at school. Any group that successfully adopts a wetland is eligible to receive an EPA certificate. For more information, contact the EPA wetlands protection section at 617/565-4421.

PUBLICATIONS

San Diego Aquatic Flora

San Diego County is marked by a remarkable diversity in its marine flora, a result of the fact that its coastal habitats are so varied. Although there have been some earlier studies, the marine seaweeds and seagrasses of the area have never before been extensively surveyed. Now, a new handbook provides a means of recognizing and naming over 300 taxa and suggests where and when individual species can be found. It also includes the first systematic, intensive sampling of subtidal flora. *Marine Algae and Seagrasses of San Diego County: A Handbook of Benthic Marine Plants from Intertidal and Subtidal Sites Between the U.S.-Mexican Border and Orange County, California*, by Dr. Joan G. Steward of the Scripps Institution of Oceanography (UC San Diego), is available from California Sea Grant for \$10; check payable to "UC Regents."

Sharing Science with Children: A Survival Guide for Scientists and Engineers

Two hundred copies are to be distributed in response to requests from AFS members. If you ever venture into school classrooms to teach elementary or middle school kids about fisheries careers and professions, you should have a copy of this booklet. Send a self-addressed stamped envelope with 52 cents postage to Jackie Machado at AFS headquarters. Another handbook, *Using Scientists Volunteers at Museums* from AAAS is available. For copies contact Patricia Curlin, AAAS 1333 H Street NW, Washington, DC 20005, 202/326-6670.

Aquatic Bioenvironmental Studies: The Hanford Experience 1944-1984

This publication reviews past studies from U.S. Dept. of Energy's Hanford Site within a historical framework. To receive your copy, contact Elsevier Science Publishing Co., 655 Avenue of the Americas, New York, NY 10010; ph. 212/989-5800.

Artificial Habitats for Marine and Freshwater Fisheries

Edited by William Seaman Jr. and Lucian M. Sprague of the University of Florida, Gainesville, *Artificial Habitats for Marine and Freshwater Fisheries* provides a comprehensive review of the facts, issues and global trends regarding the utilization of artificial habitats in aquatic ecosystems. The most recent scientific advances in ecology and engineering technologies are presented as they relate to building artificial habitats and making informed socio-economic, environmental and fisheries management decisions.

The applications of artificial habitat technologies are taking on ever greater economic, social and environmental importance globally. This is true not only in developed countries such as Japan (where highly sophisticated technologies are used), but also in developing nations, where lower cost practices are in use. There is growing pressure to increase production, while at the same time preserve or enhance the environments and ecosystems surrounding fisheries.

Artificial Habitats for Marine and Freshwater Fisheries targets a broad audience including natural resource scientists and managers and organizations and individuals in commercial and recreational fishing, ecologists, environmental economists, engineers, lawyers, social scientists and geographers.

The book, released in October by Academic Press, is priced at \$39.95. For more information, contact Academic Press, Harcourt Brace Jovanovich, Publishers, Attn: Book Marketing Department #10524, 1250 Sixth Avenue, San Diego, California 92101-9665.

Salmon Broadcast Cassette

WDAFS members should take note of the August 1991 cassette entitled *Endangered Salmon: A Radio Chronicle of the Emerging Crisis, Fall 1990 - Summer 1991*.

To inform a general audience about the endangered salmon crisis, Oregon Sea Grant produced a series of feature reports for radio during 1990 and 1991. The reports, from four to seven minutes in length, were originally broadcast on public radio stations throughout the state, including the stations of Oregon Public Broadcasting, KLCC-Eugene, KLCO-Newport, and KSOR-Ashland. They were written and produced by Joe Cone, Sea Grant science writer.

The reports highlight many of the key environmental and policy issues in the crisis and bring the listener into the laboratories, into the field and indoors to public meetings where the issues are being examined and discussed. Now Sea Grant is preparing all 14 reports for release on one cassette. A verbatim transcript of the reports is also available.

For more information or to place an order, contact Oregon Sea Grant Communications, ADS 402, Oregon State University, Corvallis, 97331 503/737-2716.

**GREAT IDEA!
HOW ABOUT YOUR STATE?**

Both Mississippi and Colorado have recently published brochures to inform the public about their use of Wallop-Breaux funds. In Mississippi half a million anglers spend 16.9 million days fishing each year. Fishing expenditures exceed \$238 million, 29 percent of all funds generated by tourism in the state. The Wallop-Breaux expansion increased federal money from \$475,000 in 1984 to \$2.5 million in 1990. To maintain fishing success, Mississippi Wildlife, Fisheries and Parks has developed new management plans and research projects. Among other measures they have (1) implemented several size limits to improve fishing for largemouth bass; (2) introduced fishing regulations to protect the paddlefish; (3) worked to propagate and stock native walleye to ensure its protection from over-exploitation; and (4) implemented a new statewide crappie/creel limit. Colorado's attractive brochure highlights land acquisition, public boating access, aquatic education, and angler education in addition to fish production, research, habitat improvement and data collection. For copies contact the state fish chiefs.

Better Fishing Through Management -- How Rotenone is Used to Help Manage Our Fishery Resources More Effectively

This pamphlet has been reprinted recently by the USFWS, Division of Federal Aid, Arlington Square Station, Washington, DC 20240. Copies are available free by contacting Federal Aid representatives at any of the FWS Regional offices or by contacting Claude Stevens at the above address.

JOBS

Eggs and fish available for bioassay work

As the demand for environmental testing of aquatic species has increased dramatically across the country, it has become more and more difficult to obtain some of the recommended testing species such as fathead minnows,

three-spined sticklebacks and rainbow trout on a dependable year-round basis. To help alleviate this problem, Mt. Lassen Trout Farms of Red Bluff, California, is now supplying unfertilized rainbow trout eggs and sperm-eyed eggs or swim-up fry year-round. These products are shipped in well insulated styrofoam boxes anywhere in the United States, depending on local permit restrictions.

For more information, contact Terrie or John at Mt. Lassen Trout Farms. 916/597-2222.

SFI's Job Hotline ITEMS

The Sport Fishing Institute has provided a job listing service to fisheries professionals for over 21 years. *ITEMS* is a monthly newsletter (10 issues per year) that contains information on career opportunities in fisheries science throughout the United States. In addition, scholarships, internships, workshops and symposia are listed.

If you wish to advertise a job vacancy in *ITEMS* at no charge, please send the job announcement to the address below. Be sure to include the job title, brief description, starting date, required qualifications, deadline date for application and address and phone number of person to contact.

If you are interested in receiving *ITEMS*, send a check for \$7.00 (U.S.), which is the annual subscription fee, to Sport Fishing Institute, attention Christine Altman, 1010 Massachusetts Avenue, N.W., Suite 320, Washington, D.C. 20001-5402.

Editor's Note

By now I'm sure you are all receiving the AFS job bulletin. The Sport Fishing Institute Job Hotline is also an excellent source for job information. If you are interested in listing job openings or your availability for work in *The Tributary*, I'll be glad to include your information.

MEETINGS

**May 4-9, 1992
The World Fisheries Congress**

Rescheduled following the completion of negotiations between AFS President Larry Nielsen and the Greek Government. Announcements and notices to notify sponsors and participants are mailing soon. The program has been strengthened by the year's delay and the Congress promises to be an even better educational opportunity than before. Please contact Janine Walker on the AFS staff for further information.

**July 13-16, 1992
Call For Papers
1992 Western Division Meeting**

Western Fishery Resources Maintaining Habitat, Maintaining Quality is the topic for the 1992 meeting of the Western Division of the American Fisheries Society scheduled at Colorado State University, Fort Collins, Colorado. General session topics planned include warmwater fisheries management, Colorado River fisheries, harvest modeling and regulations, cutthroat trout management, advances in aquatic toxicology, national forest fishery research and management, Columbia Basin fishery mitigation, urban fisheries management, national parks fishery research and management, endangered spe-

cies, advances in electro-fishing, marine fisheries research and management, advances in fish culture and fish disease, student papers, contributed papers, and technology transfer.

Openings are also available for poster papers. If you are interested in organizing a session on a topic of your choice, would like the name of the session chairperson for topics listed above, or are interested in presenting a contributing paper or a poster, please contact Glenn Phillips, Montana Dept. of Fish, Wildlife and Parks, 1420 East 6th Ave., Helena, MT 59620 406/444-2449. For information on local accommodations, contact Tom Powell, Colorado Division of Wildlife, 317 W. Prospect, Fort Collins, CO 80526 303/484-2836 ext. 318.

**October 11-14, 1992
Symposium on Freshwater Mussel
Conservation and Management**

Embassy Suites Hotel, St. Louis, MO. Sessions devoted to regulations, commercial harvest, conservation, sampling methodology, data management, and environmental awareness. For information contact Kurt Welke, Wisconsin Dept. of Natural Resources, 111 W. Dunn St., Prairie du Chien, WI 53821, 608/326-0233.