



# THE TRIBUTARY

A Newsletter of the Western Division,  
American Fisheries Society



*American Fisheries Society*  
*Western Division*

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## PRESIDENT'S CORNER

The Western Division is a collection of the finest assets and attributes in the American Fisheries Society. We have the largest membership, the biggest and most active chapters, and the most brilliant and dedicated leadership that you will find in the field of aquatic resources anywhere in the world. If that sounds like a "Texan" bragging (which I'm not), so be it, because I have barely begun.

We also have this newsletter, **THE TRIBUTARY**, our main transmission link to you, and naturally, the finest division newsletter in the AFS. The Western Division is indebted to **Howie Raymond** for his dedication as editor, and to the Northwest and Alaska Fisheries Center for the support that has been given to us these past two years. This will probably be the biggest issue that we've ever put out, and it shows the strength of movement and activity within this AFS division. We'll do all that we can to keep up with you.

No one likes to be the bearer of "good news/bad news." Every one of us on the Western Division EXCOM has had the pleasure of working with **Howie** on this newsletter, and his patience and fortitude are much appreciated. This fall, **Howie** would like to start "breaking in" a new editor and be able to turn over complete responsibility to

him/her with the spring, 1987 issue. **Howie's** talents as an editor and his dedication will be sorely missed, but we have to begin a search for a new editor immediately.

There have been a few members who have volunteered to serve on the newsletter committee and I will be asking these people and others to serve on an adhoc committee to find a new editor in time for us to report success at the annual AFS meeting in Providence in September. If any Western Division members want to assist or have suggestions, please contact me or **Howie Raymond**.

The next big priority for the Western Division is putting together the program for the annual joint meeting of the Western Division of the American Fisheries Society and the Western Association of Fish and Wildlife Agencies (WAFWA/WDAFS). This year, I have turned over almost all of the responsibility to President-Elect **Don Martin** so that I could focus my efforts on organizing a special "retreat" for AFS President **Johanna Reinhart**. **Don** and Program Co-Chairman **Gordon Haugen** have put a coordinated package together with WAFWA that is outstanding, and addresses the key issues facing fish and wildlife management and research in this decade of political and economic turmoil. The program is so large, that we won't attempt to address it in this newsletter, except for some last minute changes. WAFWA sent out the complete package

(with programs) several weeks ago to all paid-up Western Division AFS members. **THERE WILL BE NO FURTHER ANNOUNCEMENTS!!** If you lost your package, or paid your AFS dues late (or you are not an AFS member and want to attend), please contact **Kirk Beiningen** or **Judy Nielson** at the Oregon Fish and Wildlife Service office in Portland [(503) 229-5424], or Oregon Chapter President **Nancy MacHugh** [(503) 754-4431] and they will mail you the information. Kirk is our Arrangements Chairperson, and Judy is in the same position for WAFWA. The AFS Oregon Chapter is co-host with Oregon Department of Fish and Wildlife Service. Together, they have done a splendid job of coordinating all of the facilities at the Portland Hilton, tour packages and entertainment, and I guarantee that this is a meeting you won't want to miss. The meeting rooms are some of the best that I have ever seen, and Kirk discovered that it has never rained in Portland on July 23rd since records have been kept! This year we will have the trade show, coffee break facilities, and poster sessions all in one very large room immediately adjacent to the main meeting room. I asked North Pacific International Chapter member **Stan Smith** to be my trade show chairman this year, and I think that what he has put together for the trade show supporters and WAFWA/WDAFS is going to please everyone. There will be a lot of new equipment and services. Space-age technology is here, now, so be sure to stop and chat with the sponsors, and see what they have to offer. You'll be amazed. And, if there are any private firms who still would like to be represented at the WAFWA/WDAFS meeting, contact Stan as soon as possible at (206) 526-6285. Whatever you do, don't miss this meeting—July 21-23, at the Portland Hilton.

On Sunday, July 20th, your WD/AFS elected officers, the remaining WD/AFS Executive (Chapter Presidents), and many of the elected officers of the AFS will meet at the Portland Hilton for an all-day planning session. This is the Divisional/Parent Society Retreat that AFS President **Johanna Reinhart** asked me to organize. I have discussed it personally with most of the

WD/AFS EXCOM, and the excitement and eagerness to participate is running high. We have an agenda, and it includes planning right out to the end of this century. This will be a "closed door" session, and I have even arranged for several sponsors to assist in the cost of catering meals so that no one can "escape".

Right after President Reinhart's Retreat, the WD/AFS Committees will meet in the Portland Hilton. Elected WD/AFS officers **Don Martin, Al Mills, Ellen Gleason, Don Duff**, and myself have tried to attend as many chapter meetings as possible since the first one last November (Alaska), but this has cut into our time with committees. Now that chapter meetings are over, we hope to correct this.

Last, but not least, this is election time. WD/AFS Nominations Chairperson **Neil Armentrout** has presented an excellent slate of candidates. We have had over 50% voter responses in past elections, so please devote a few minutes of your precious time to this, and put the ballot committee to work!!

This is my last contribution to **THE TRIBUTARY** as WD/AFS President. I want to take this opportunity to thank the elected officers for their patience, the committee chairs for putting up with me, and to all of the WD/AFS membership and others who have contributed of their time and money. No one has let me down, and for this I am forever grateful.

**Tony Novotny**

## C H A P T E R N E W S

### **NORTH PACIFIC INTERNATIONAL**

The annual meeting of the North Pacific International Chapter of the American Fisheries Society was a resounding success. The number and diversity of topics ranging from water pollution in Puget Sound to steelhead enhancement on Vancouver Island kept participants moving between concurrent sessions. **Jeff Oederholm** did an excellent job in developing and arranging the program.

Western Division dignitaries **Tony Novotny** and **Don Martin** were active participants throughout the conference. Their enthusiasm bodes well for a fine Western Division meeting in Portland.

Several members were presented certificates of recognition by the Chapter for their outstanding efforts in research during the preceding year. These included **Vince Poulin** for his Fisheries-Forestry Interaction program; **Patrick Slaney** for Instream Enhancement Research; **Richard E. Throne** for Advancements in Hydroacoustics; and **Daniel Mulcahy** for IHN Research. These individuals are leading the profession in their respective endeavors and are to be congratulated.

**Anthony Netboy** received the Chapter's prestigious Roderick Haig-Brown Award. This trophy and stipend are given to individuals making outstanding contributions to the field of fisheries by interpreting fisheries issues to the general public. Mr. Netboy has dedicated his life to this cause and is without a doubt a most worthy recipient.

#### ARIZONA/NEW MEXICO

The Arizona/New Mexico Chapter held its annual meeting at Thatcher, Arizona, January 31 and February 1. There were 71 chapter members in attendance for some excellent papers. **Shelby Gerking** was able to attend and gave a short presentation about parent society activities. Officers for this next year are:

**Roger Sorensen**.....President  
**Jerry Burton**.....Vice President  
**Jim Burton**.....Secretary/Treasurer

At the meeting, the Native Fish Committee presented the chapter with the final product of a VHS tape titled "Endangered Fish of the Southwest". The tape is the cumulative efforts of many chapter members. Although, the title suggests emphasis on Southwest endangered fish, the text deals with a complete ecological concept as to reasons for "endangered" status. The film production was done by a public service T.V. station in Albuquerque, New Mexico, and

is of superior quality. The tape runs for 19 minutes, cost \$30.00 a copy, and can be ordered from:

American Fisheries Society  
c/o Roger Sorensen  
3744 W. Sharon  
Phoenix, Arizona 85029

#### ALASKA

The annual meeting held in Kodiak was again a resounding success with approximately 100 attendees.

The keynote was given by **Michael Fraidenburg** of the Washington Department of Fisheries who made a stimulating presentation on salmon management issues of concern in interstate and international situations.

Nearly 50 papers, organized into nine technical sessions, were given. Topics included Mathematical and Statistical Applications to Fishery Investigations; Seafood Harvesting, Processing, and Marketing Technology; Marine Fisheries Investigations; Fishery Research on Federally Reserved Lands; Water Resource Development; Fisheries Enhancement; Water Quality Concerns; and session on Contributed Papers.

We were honored by the presence of **Johanna Reinhart**, President of AFS, who made an address on the future of AFS and **Tony Novotny**, President of the Western Division of AFS, who reviewed his plans for Western Division in 1986.

Other speakers included **Jon Schriedke**, Artic Alaska Seafoods, who gave a fascinating presentation on the relatively new catcher-processor operations for podlock, cod, and other ground fish in Alaskan water, **Senator Arthur Sturgulewski**, who addressed the participants on Alaska fishing problems requiring legislation attention in 1986, former **Senator Clem Tillian**, who treated the audience to some of his perspectives on fishery management in Alaska, and **Don Chase**, Washington Department of Game who gave a special presentation entitled "Fish and Chips". At the end of the meeting the President's gavel was passed on to **Bill**

**Wilson** who in turn presented outgoing President **Carl Burger** with a Certificate of Appreciation.

The Alaska Chapter has increased its role in disseminating information on research activities in fish biology throughout the state. The goal of this activity is to broaden the exposure of fisheries research to government, to lawmakers, to the private sector, and to the public in order to make the information more accessible both to researchers and policy makers.

In September 1985, the Alaska Chapter sponsored a symposium on arctic fisheries research at the annual American Association for the Advancement of Science (AAAS) Conference in Fairbanks. The symposium was well-attended by representatives from most research and management groups active in fish-related research and decision-making, despite being held on a Sunday morning. The meeting was concluded with a lively discussion on the preferred direction of future fish research efforts in Alaska's Arctic.

This year, the Alaska Chapter will again be active in the AAAS meeting. The Chapter is co-sponsoring a symposium on fisheries research with the Arctic Institute of North America (AINA). The AAAS is holding a joint meeting of the Arctic and Pacific Division at the University of British Columbia in Vancouver, B.C., June 8-13, 1986. During this meeting there will be a broader focus on northern science issues due to the considerable participation from Canadian researchers as well as Alaskans. The fisheries research session is being co-chaired by **Dr. David Norton** with AINA and by **Dr. Larry Moulton** with Entric. A program announcement with more information can be obtained from:

AAAS-Arctic Division  
P.O. Box 80271  
Fairbanks, Alaska, 99708  
Phone: (907) 474-7371

## MONTANA

The Montana Chapter had its annual meeting in Bozeman on February 13 and 14. A record number of members attended, 129 or about 72% of total membership. **Dr. Bob Behnke** from Fort Collins, Colorado was the keynote speaker and kicked off the meeting with a discussion of the management uses of the hatchery fish.

We were honored by the presence of **Dr. Bob White**, Second Vice President of AFS, and **Don Martin**, President Elect of the Western Division, both of whom addressed the members at the luncheon.

Panels on current issues of stream access, forest plans, fish hatcheries, contributed, and student papers made for a very ambitious schedule which was enjoyed by all.

Our annual raffle to support the chapter riparian efforts raised a record \$1,070.00. Prizes were solicited by members from local and national firms. The grand prize was a custom made graphite fly rod.

The chapter presented awards to two individuals whose concentrated efforts have prevented serious environmental impacts to the Rock Creek drainage. A utility company, Montana Power, received an award because of their efforts to maintain a suitable flow regime below Ennis Dam. This significantly contributes to the Madison River fishery.

We presented our first annual "Fishery Worker of the Year" award to chapter member **Ralph Boland** for his efforts to reserve and enhance the aquatic resources of Montana.

## BONNEVILLE

The 1986 Winter Technical Meeting of the Bonneville Chapter of the American Fisheries Society was held at Utah State University in Logan March 5 and 6. The meetings were held jointly with the Utah Chapter, Wildlife Society. Attendees were treated to an

excellent program, with a variety of topics covered in the presented papers. The first day, a joint session, featured talks relating to nongame and endangered species. The second day sessions were devoted to technical papers of fisheries and aquatic biology interests. All papers presented were excellent, including a large number of student papers, which had been lacking in recent years.

The banquet was held on Wednesday, March 5. Program activities included a raffle, awards presentations, and of course, an excellent buffet meal. Program Co-Chairman **John Leppink** and **Richard Williams** did an outstanding job of coordinating and arranging the meeting. Our congratulations and thanks to them both!

**Al Mills** conveyed works of appreciation to the Chapter from Western Division President **Anthony Novotny**, for the high level of involvement of the Bonneville Chapter in local, regional, and national fisheries arenas. Al also advised that all members of the Chapter should also join the parent society and support the AFS, which does so much for the profession. A new "Fish Genetics Section" is being formed, which should be of interest to many of the Bonneville Chapter members. Membership applications for the AFS can be obtained from Al or from any member of the EXCOM. Al also informed the Chapter that the AFS has converted many of their slide-tape modules to VHS format. These programs, including "This is AFS", "Western Division Riparian", and others are available from the AFS for presentation to groups that are interested. Contact Al or an EXCOM member for further information.

The officers elected at the Winter Meeting are as follows:

**John Leppink**.....President  
**Christine Jauhola**....President-Elect  
**Bob Hurley**.....Vice-President  
**Paul Harmer**.....2nd Yr Committeeman  
**Eric Larson**.....1st Yr Committeeman  
**Maureen Wilson**.....Secretary-Treasurer

**Christine Jauhola** will assume office immediately as Vice-President, and will become President-Elect on August 1, when the other elected officers will also assume their duties.

The outstanding professional paper award went to **Deana R. Nelson**, who presented "Steambank Stabilization in Strawberry Valley, Utah". The paper was co-authored by **Richard L. Williams**.

**Keith Marine** earned the Outstanding Student Paper Award for his presentation "Effects of stocking stress on short-term survival, long-term survival, and growth of rainbow trout in a productive Utah reservoir". The paper was co-authored by **Wayne Wurtsbaugh**, **Nancy Pace**, and **Kevin Christopherson**.

Awards of Merit were presented to **George Wilson** for his dedicated vigilance during the flood of 1983-1985; **Larry Dalton** for his success in negotiating mitigations for fish and wildlife; **Leah Ann Schirle** for her work in facilitating the construction of a sewer collection and treatment system for the Scofield Reservoir area and the **Environmental Staff Group of the Bureau of Reclamation** for their perseverance in meeting mitigation obligations of the Central Utah project.

The Western Division's Habitat Inventory Committee has completed a Glossary of Stream Habitat Terms. This glossary is Chapter One in a larger effort to promote uniformity in the use of terms and measurements methods in streams, lakes, and reservoirs. Copies of the glossary can be ordered for \$5.00 each from:

Dr. William T. Helm  
Department of Fisheries and Wildlife  
Utah State University  
Logan, Utah 84322-5200

#### COLORADO/WYOMING

Wyoming now has a new law that designates instream flow as a beneficial use of water. The Citizens Institute Bill to

establish instream flow as a beneficial use of water was scheduled to be placed on the ballot in November's election. Wyoming legislators, who had seen fit to kill all efforts to pass an instream flow bill for the last 15 years, had a change of heart with the upcoming citizens vote on the issue in November.

The House Agriculture Committee, which historically did not even allow instream flow bills to come out on the floor for discussion, voted 9 to 1 for introduction during the budget session. The bill easily passed through the House and Senate with minimal opposition and no bad amendments, and was signed by the governor. The Wyoming Wildlife Federation believes the new law is basically the same as the one they were having placed on the ballot in November. The federation led the statewide effort to gather the 25,800 signatures necessary to place the instream flow initiative on the ballot. The Attorney General of Wyoming is expected to rule that the newly passed law is substantially similar to the Citizens Initiative Bill, thus eliminating the need for a citizens vote on the issue in November.

The Colorado/Wyoming Chapter and its' members actively supported the Citizens Initiative to place an Instream Flow Bill on the ballot. In a recent letter from the Federation, they thanked the Colorado/Wyoming Chapter for their efforts in preparing the booklet, INSTREAM FLOW, and for their monetary support. The Western Division also deserves recognition as they paid for printing of the booklet, which received wide distribution in Wyoming.

A quote from the Campaign Director for the Wyoming Citizens Committee for Instream Flow says it all. "Your interest and generosity made this final effort successful. It's clear that the Legislature acted because they knew we were ready to act without them. Thank You! Our job is done. "We've gone fishin".

## HELP!!!

Many Western Division members are aware of a major report by **Robert J. Behnke** (Colorado State University) on the native trouts of western North America. They also know how difficult it is to obtain a copy of this important work on the biology and management of western Salmo. Recently, the U.S. Fish and Wildlife Service, for whom the report was written several years ago, agreed to support its publication as an AFS Monograph. This grant, generous though it is, will cover only the actual costs of production, however. Since he completed the report, **Dr. Behnke** has accumulated a great deal of new information about these import fishes, enough to justify a substantial revision of his 400+ page manuscript. We are seeking at least \$10,000 to cover his expenses for writing and word-processing this summer, so that a fine contribution can become even more timely and comprehensive.

Several partial pledges can achieve the same goal as one large grant. Collectively, for example, Chapters within the Division could contribute much of what we need for this worthy project, and we urge Subunit leaders to explore this with their constituents. We also seek contacts with potential supporters outside AFS, and welcome suggestions from anyone. If you can help with pledges or ideas, please contact Managing Editor **Robert Kendall**, P.O. Box 1150, Columbia, Maryland 21044, Phone (301) 596-3458, and copy your correspondence to Division President **Tony Novotny**.

## OREGON

Presidentress **Nancy McHugh** struck a soggy wolf eel on the podium, and the 23rd Annual Oregon Chapter meeting began January 22 at Kah-Nee-Ta. **Russell Sadler** of KVAL TV gave an enlightening keynote address. Program Chairman **John Anderson's** efforts came to life as the technical sessions covering a wide range of topics began.

The business meeting was one of the best ever with about 150 members in attendance. The Chapter passed on a resolution requesting additional expertise be provided to area offices of the Dept. of State Forestry.

There were some close voting in the election of officers which were:

- Steve Smith**.....President
- Dan Barrett**.....Vice-President
- Kin Daily**.....Secretary/Treasurer
- Bob House**.....Internal Director
- Kyrstyna Wolniakowski**...External Director

The new officers will officially take over August 1, but are already blending into the Ex-Comm. functions.

At the banquet...."Fishery Worker of the Year" was presented to **Bob Schoning**. His long list of accolades finally caught up to him. "Award of Merit" went to the **Deschutes Valley Water District** for their project in salmon rearing, **Dick Ewing** for his hatchery newsletter initiative, and **Dr. William Weare** for his involvement in natural resources as a private citizen. Recipient of the coveted "Broken Oar Award" was **Pat Keeley** for using his personal frame to check the depth of a fish trap on the Clackamas.

**Wayne Bowers** (in his usual demure manner) and his band of rafflers managed to raffle off all the available prizes as well as a few other loose items. The silent auction brought in about \$420 with **John Anderson's** wood carving of a salmon being the hot item. **Gordon Haugen** outbid everyone for a paltry sum of \$210 (he thought it was smoked). Not too early to be thinking about a craft you can donate to next year's cause (start whittling, John).

**Two for One deal**...Anyone who would like to obtain abstracts of both the 1985 and 1986 Annual Chapter Meetings, can get both for \$5.00. Send to our mailing address: P.O. Box 722, Corvallis, OR 97339.

1986 is really a year for AFS in Oregon! After a very successful Oregon

Chapter meeting in January, they were tuning their sights to July, when the Western Division of AFS and the Western Association of Fish and Wildlife Agencies meet together in Portland. Reserve July 21-23 on your calendars to attend the Western Division meeting.

On the Saturday preceding the conference (July 19), Oregon Trout, with the cooperation of the Oregon Chapter AFS and Oregon Sea Grant, is presenting a Wild Trout and Steelhead Symposium for the public and Western members at the Portland Hilton. Sessions on stock conservation, harvest management, habitat requirements, water law, and enhancement, restoration, and mitigation, will be followed by individual stream case histories of successes and failures in wild fish management in Oregon and Washington. Sunday will focus on tours of Clackamas River habitat and hatchery programs. Registration is \$5.00; \$7.00 at the door. Fee includes a copy of the proceedings. Cost of the tour on Sunday is \$5.00. Make checks payable to the Oregon Chapter (see previous address).

## M E E T I N G S

### WESTERN DIVISION AFS

July 21-23, 1985  
Hilton Hotel  
Portland, Oregon

#### A. Registration Fees:

Yoursel.f.....\$45  
Spouse.....\$35  
Banquet.....\$25  
WDAFS Registration....\$ 5

The registration fee includes a hosted cocktail reception Sunday (July 20) evening, and all coffee breaks during the conference. The registration fee also includes several activities for spouses during the conference. The optional banquet will be in the form of a salmon barbeque dinner on Tuesday (July 22) evening at Sawwie Island and transportation is included.

B. Change in Contributed Paper Session:  
Contributed Papers  
Allen Thomas, Bureau  
Office of Land Management, Idaho State

Speakers:

1. Impact of organic loading on fish production and predator-prey relationships in New Mexico.....**Richard A. Cole, Robert A. Deitner, Robert Tafaneli, Gabriel Desmare, and Paul Turner**, New Mexico State University.
2. The use of hydraulic simulation to evaluate habitat improvement structures....**Timothy S. Hardin**, Hardin-Davis.
3. Selenium contamination of fishes and their foods from agricultural tile drain water in the San Joaquin Valley.....**Michael K. Saiki**, CNFRL Field Res. Station, USFWS.
4. Daily food consumption and determination of the origin of juvenile chinook salmon during the seaward migration....**Michael L. Gross and Dennis W. Roudorf**, National Fishery Res. Center, USFWS.
5. Restoration of the "Endangered" Gila trout: At Stage 3 and holding.....**Paul R. Turner**, New Mexico State University.
6. Reactions of brown trout to ultraviolet and visible light....**W. T. Helm** and Utah State University.

C. Contributed Papers-Poster Session—Space (8'x 10') is being provided for those authors who wish to participate. Back drop curtains and tables will be provided. For additional information and a reserved space, please contact Don Martin, Rt. 1 Box 84, Star, Idaho 83669, (208) 334-9498.

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**DOWNSTREAM MIGRANT FISH  
PROTECTION TECHNOLOGY WORKSHOP**

Wednesday, July 23, 1986, 1-6 PM  
Hilton Hotel  
Portland, Oregon

Follows the meeting of the Western Division  
Sponsored by the Electric Power Research  
Institute and American Fisheries Society

PURPOSE: The electric Power Research Institute (EPRI) sponsored a study to:

1. Assess the status of available and promising technologies for protecting fish at hydroelectric facilities
2. Compare these technologies on the basis of biological, engineering and cost criteria
3. Select promising technologies for further development, and
4. Define future research needs.

A major conclusion of the study is that no single fish protection system presently exists that is biologically effective, reliable and considered to be acceptable for every application. The purpose of the workshop will be to present the study findings and discuss the course of future research.

FORMAT: Presentations will be made of the study results, as well as industry and resource agency perspectives of research needs. Speakers will present EPRI, the study team and one or two regulatory agencies. All preregistrants will receive a copy of the study report for review prior to the workshop. Following the formal presentation, an open forum will be provided for discussion, comment or criticism of:

1. Results or direction of the study
2. Future research recommendations
3. The policies of regulatory agencies
4. The practices of hydro developers.

Fee for Workshop: EPRI Member.....\$ 50  
Student/Govt.....\$ 50  
EPRI Non-member....\$150

**MAKE CHECK OR MONEY ORDER PAYABLE TO:**  
Electric Power Research Institute and mail to:

Ms. Laura Goldie  
Electric Power Research Institute  
P.O. Box 10412  
Palo Alto, CA 94304



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**STREAM HABITAT ENHANCEMENT EVALUATION  
TECHNICAL WORKSHOP**

October 21-23, 1986  
Portland, Oregon

Stream Habitat Enhancement efforts are starting to produce results, or are they?

This question is being asked with increasing frequency. However, there are few sources of information to provide an answer. This three day workshop, conducted by recognized experts in stream habitat enhancement and evaluation will be based on their consensus opinions regarding evaluation philosophies and procedures. A technical document incorporating these opinions is being formulated to help guide future enhancement evaluations.

PROGRAM: The workshop will follow the format of a short course. Experts in the field of stream enhancement will address a wide range of topics, including

1. Objectives of enhancement evaluation
2. Design of evaluation programs
3. Application of evaluation results.

The program agenda, registration materials and information on meals and lodging will be available in September.

For additional information, contact Buell and Associates, Inc., at (503)-649-9205.

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**NONPOINT SOURCE POLLUTION ACID RAIN** will be the focus of the North American Lake Management Society's November 5-8 annual conference in Portland, Oregon. Abstracts or papers must be submitted by June 1 to NALMS, P.O. Box 217, Merrifield, VA 22116. Peer-reviewed proceedings will be published. For further information call (202) 833-3382.

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**A SHORTCOURSE ON ECOLOGY AND SAMPLING OF FISH LARVAE IN FRESHWATERS** will be offered by the Larval Fish laboratory at Colorado State University, Fort Collins, Colorado, 18-20 November 1986. The purpose of the shortcourse is to facilitate improvements in larval fish sampling programs. Practical application of the information presented in fishery research, management, and environmental assessment will be emphasized.

The three-day shortcourse will feature 2 days of classroom lectures and 1 day of field demonstrations and exercises. Specific topics will include fish reproduction; larval fish anatomy and development; habitat utilization by fish larvae in lotic and lentic environments, and sampling techniques.

A detailed brochure on the shortcourse will be sent upon request. Enrollment fee is \$300.00/person. Participants can earn 1 hour of academic credit from the Colorado State University for an additional fee of \$31.00. Registration deadline is 24 October 1986 (individuals missing deadline should call immediately). For further information contact Clarence A. Carlson (303-491-5089) or Robert T. Muth (303-491-6412), Department of Fishery and Wildlife Biology, Colorado State University, Fort Collins, Colorado 80523.

M I S C E L L A N Y

COLUMBIA BASIN FISH AND WILDLIFE PROGRAM

The Columbia Basin Fish and Wildlife Program (the Program) continues to provide a focus for activities of the State and Federal fish and wildlife agencies and Indian tribes related to the protection, mitigation, and enhancement of Columbia Basin salmon and steelhead. A report summarizing key activities and accomplishments in 1985 and recommendations and projections for the following year is available through the National Marine Fisheries Service, Environmental and Technical Services Division, Portland, Oregon 97232. Highlights from this report include:

1. The major emphasis in FY85 and continuing in 1986 is to develop measures to improve the survival of downstream-migrating salmon and steelhead smolts at and between mainstem Columbia and Snake River hydroelectric projects operated by the U.S. Army Corps of Engineers (COE) and Public Utility Districts (PUD's).

2. Four of the eight COE mainstem dams on the Columbia and Snake Rivers (Bonneville, McNary, Little Goose, and Lower Granite) are equipped with complete juvenile bypass systems to improve the survival of juvenile salmonids passing these dams by bypassing juvenile fish around turbines. The bypass at John Day Dam will be complete by the spring 1986 and bypasses are scheduled for the remainder (The Dalles, Lower Monumental, and Ice Harbor Dams). Bypasses are quite efficient at some dams, but fish guidance is poor at the other dams. Research is being funded by the COE to correct existing deficiencies.

3. There are no bypasses at PUD dams on the mid-Columbia River. Spill is being used as interim protection until bypasses are installed at Priest Rapids, Wanapum, Rock Island, Rocky Reach, and Wells Dams.

4. A water budget program to improve spring migration conditions is in place. It includes a smolt monitoring program and an evaluation program to assess its value. Many fish are being marked and released at various locations to obtain estimates of smolt travel time and survival.

5. The Power Planning Council has rejected a hatchery research work plan developed by the fishery agencies and tribes, citing a research planning project which they now have under contract. It is their hope that their more comprehensive attempt to develop research objectives for the Program will allow them to assess where research will have the greatest payoff in the quantity and quality of fish produced.

6. A Yakima hatchery master plan is under development by the Power Planning

Council working with the fishery agencies and tribes. In FY85, the Power Planning Council let a contract for site evaluation and development of a production profile. A separate contract provides for development of a plan for post-construction evaluation. Site selection should be completed and preliminary design initiated in FY86. Initial design and construction are scheduled to begin in FY87 and FY88 respectively. The facility is expected to be operated primarily as a central outplanting station to re-seed the Yakima Basin. Sites both within and outside the Yakima Basin are being considered.

#### DO STEELHEAD SLEEP?

by Jeff Oederholm

On October 6, 1983, and again on October 10, 1985, I observed several bright healthy-looking summer steelhead adults lying along the shorelines and pool tailouts of a tributary of the Quillayute River on the Olympic Peninsula coast of Washington. I am at a loss for a plausible explanation for this phenomenon, and would be anxious to discuss it with anyone who is interested

These fish could be found in the very shallow (7-15 cm deep) margins of the river, in an apparent trance-like state. They were in water with a temperature of 7°C, with oxygen-near saturated condition, where the current was imperceptibly slow (0.03 m/sec). Their trance-like state was quite evident because I was able to walk to within a meter or less of the fish without eliciting a fright response. It wasn't until the fish were either touched or aggressively startled that they would move. When they did move it was sometimes to deeper water and sometimes down the shore a few meters to resume the same behavior.

Some of these fish were found with their heads directed in the downstream direction, with their opercula wide open and motionless, as if they were respiring by passively letting water flow across their gill filaments in the posterior to anterior

direction. Several of the fish also had their dorsal fins out of the water and in a fully erect position, apparently bracing themselves against nearby cobbles or gravel with their caudal fin. I am quite sure these were wild steelhead, as this stream has long been known for its native run, and the dorsal fins that I was able to get a good look at were completely intact.

In conclusion, I can only assume that these fish were in a resting state, perhaps recovering from the difficult climb they have endured to get to their spawning grounds. However, it is amazing that they would choose such a vulnerable state of rest, one which subjects them to predators in such an obvious way. I am also intrigued by those that I've seen with their heads pointed downstream; this is counter to all I've been taught and have read about how gill respiration is supposed to operate.

If anyone has any additional information or would like to discuss this topic further, please contact Jeff Oederholm, Washington Department of Natural Resources, Forks, WA (206) 374-6131.

**WHERE HAVE ALL THE COHO GONE?**  
by Steve Mathews

It is very well-known that survival rates of salmon from Lower Columbia River hatcheries have been in a tail-spin downward for several years. This is the greatest single cause of the depressed commercial fishing industries of coastal Washington and Oregon. First it was the coho; numbers contributed fell from 3 million to 1 million fish in a decade in spite of increased smolt output. Then the fall chinook followed downward, perhaps even more precipitously than the coho. Only five years ago, harvest managers were sweating out the problem of all those surplus fall chinook at the hatcheries, created by their efforts to ensure sufficient wild escapement. By 1985, the effort to protect hatchery stocks to ensure sufficient eggs to fill the hatchery incubator trays was causing a surplus of wild fish.

The problem will be worse yet in 1986, according to the projected strength of the wild fall chinook run and failure of the hatcheries.

Why has there not been a major multi-agency research initiative of sufficient scope to solve this problem similar to that being successfully done to restore upstream runs in this river.

If anyone desires additional information on this subject, contact Dr. Stephen B. Mathews, School of Fisheries, WH-10, University of Washington, Seattle, Washington 98195.

XXXXXXXXXXXXXXXX

The North Central Division, American Fisheries Society announces availability of:

**The Paddle Fish:  
Status, Management and Propagation  
(special publication #7)**

For the first time, basic information on the paddlefish has been collected in a single volume. These ten papers, presented at the Dec. 6, 1983 Paddlefish Symposium held in St. Louis, Mo., cover topics such as paddle fish distribution, abundance, current management practices, effects of commercialization, and propagation procedures. Of particular interest is the extensive bibliography, which lists all known publications on paddlefish from the 1700s to 1985.

Cost is \$9.00 per copy and will be available after 1 August 1986. Make checks payable to the North Central Division and mail to:

Joe Dillard  
Missouri Department of Conservation  
1110 College Ave.  
Columbia, MO 65201

**LIFETIME MEMBERSHIP BARGAIN**

Effective March 1, 1987, lifetime membership in AFS will increase from \$500 to \$600. Western Division membership chairman

and Vice President **Al Mills**, speaking in behalf of your president **Tony Novotny**, reminds you this is the lowest cost for a lifetime membership in an active and well recognized professional society you will ever see. Please give this outstanding bargain your most serious consideration.

Judge for yourself! Right now and until March 1, 1987, you will have all of your dues prepaid, every issue of FISHERIES and your choice of 2 (TWO) AFS journals (in addition to FISHERIES) either the Transactions, North American Journal of Fisheries Management, or Progressive Fish Culturist, for the rest of your life. And if all the above isn't enough, you will enjoy all AFS privileges including excellent group insurance policies and all materials from the Western Division and your local chapter for the rest of your life. Some additional benefits you may also want to be aware of:

1. Your parent society benefits from the lifetime memberships also, because the money goes into a special high interest account to cover future increased costs of membership.

2. You can get a good one-time write-off on your income taxes.

3. You will have an excellent inflation hedge in the fact that no matter how high future costs go, you will never have to pay another dime, except for annual section dues.

Tony is also pressing the AFS EXCOM to consider issuing a special plastic "Gold Card" to life members and asking the Western Division Excom to consider having a special drawing for prizes for all Western Division members who sign up for the life membership between January 1, 1986 and February 28, 1987.

Realizing that all of us may not have a spare \$500 lying around the compound, the AFS Excom voted to allow us the flexibility of paying 1/3 to 1/2 of the amount before the March 1, 1987 deadline, and paying the remainder in one or even two installments during 1987, while still qualifying for the \$500 rate. So—good members, start laying

away your change in preparation for the life membership, sign up when the dues notices come out in September (and see to it that you do not dip into it to finance that big fall fishing or hunting trip). If you project ahead, even a fisheries professional can see it won't take long (6 to 7 years) to break even and begin reaping the benefits of such a good investment.

**REMINDER! — HALF YEAR MEMBERSHIP BREAK!**

**DUST OFF YER RECRUITING CAP!!** President **Tony Novotny** and Vice President and Membership Chairman **Al Mills** want to remind you it's a good time to approach your good friends about an AFS membership. If you know of a colleague and/or good friend not presently a member of AFS, or who has been guilty of that universal sin of procrastination, remind them of the 1/2 year rate now available for only \$18.00. It's a good way to get someone started and get some additional new ideas into your chapter and the parent society. A quick call to **AFS Membership Chairman Stan Moberly** in Alaska revealed the following statistics:

<u>Membership</u>	<u>Mar 83</u>	<u>Jan 86</u>	<u>Apr 86</u>
Parent Society	5,328	5,255	6,601
Western Division	1,885	1,947	2,244

You can see the dramatic increase in Western Division membership in just the last few months, and you can also see we constitute our fair share of the entire parent society membership. Let's go get em!

Much of the Western Division's dramatic success can be attributed to the fact they have been aggressive in bringing all AFS members within their geographic area into the division and pressing for state and local chapter members to be actively involved and members of the parent society.

Stan also made an excellent point when he stated it's not members money the society needs so much as it is their new ideas, energy, and enthusiasm to keep going after activities that benefit the resource and the profession. Stan is a real asset to the Western Division and AFS and a pleasure to work with. Thanks again Stan!

## N A T I O N A L A F S N E W S

### EXCERPTS FROM THE AFS DIARY

**INTEREST IN FISHERIES SCIENCE CERTIFICATION** has been strong in 1985 with 124 applications received and 100 persons certified. This is double last year's figure and brings the total number certified to 1,654. With 1,970 applications reviewed since the beginning of the process the success ratio has been 84%.

**1986 CANDIDATES FOR AFS 2ND VICE-PRESIDENT** will be **Joe G. Dillard** of Columbia, Missouri, and **Stephen G. Rideout** of Hadley, Massachusetts. The selection process was recently completed by the Nominating Committee, chaired by **Past President Bill Platts**. Ballots will likely be mailed in June.

**ITS IS INDIVIDUAL DEDICATION** which pays off in membership recruitment. As evidence of this I am pleased to report that **Dan C. Barrett** of Scio, Oregon, recruited 16 new members in February. **Jim Meade** of Wellsboro, Pennsylvania, brought in nine members during the same period, and **Wayne Daley** of Rolling Bay, Washington, recruited six others. Thus, three members brought in 31 new recruits in just one month. Just imagine what we could do collectively if we all showed such dedication.

**SPEAKING OF WALLOP-BREAUX FUNDS**, the Treasury Department now reports that the annual amount attributed to import duties on foreign manufactured boats and tackle is roughly \$40 million rather than the anticipated \$20 million. This should increase available W-B funds from the \$122 million announced earlier to nearly \$142 million.

**THE NEW AFS FISH HEALTH SECTION BLUE BOOK** is now available. The price is \$12.00 for members and \$15.00 for nonmembers. This latest updated edition of the popular Blue Book is available at the AFS central office.

**RESERVOIR FISHERIES MANAGEMENT, STRATEGIES FOR THE 80's** is the proceedings of the 1983 National Symposium on Managing

Reservoir Fishery Resources. It's a handsome, hardbound, 327 page volume produced by the AFS Southern Division Reservoir Committee. Technical editor is Gordon Hall and managing editor is Mike Van Den Avyle. Copies are available here at AFS for \$15.00.

**A HANDSOME AND COMPREHENSIVE PROGRAM INCLUDING ABSTRACTS**, was given to all persons attending the successful March 9-13 International Symposium on "Common Strategies of Anadromous and Catadromous Fishes." Conference chairman Steve Rideout reports that a limited number of the 60-page booklets are available to members upon request. For a free copy, send a self-addressed envelope large enough to hold a 5-1/2" by 8-1/2" booklet and carrying 69¢ in postage to **Steve Rideout**, U.S. Fish and Wildlife Service, 4 Whalley Street, Hadley, MA 01035.

**A REPORT ENTITLED "OUR AILING PUBLIC RANGELANDS"** has been published by the National Wildlife Federation and the National Resources Defense Council. It is authored by **Johanna Wald** of NRDC and **David Albersworth** of the NWF, both of whom are extensively involved in the effort to reform public rangeland policies and practices. A limited number of copies are available by writing **Dr. Jay Hair**, Executive Vice President of National Wildlife Federation, 1412 16th Street, N.W. Washington, D.C. 20036.

**THE SACRAMENTO RIVER WINTER RUN CHINOOK SALMON** may be listed as a threatened species as recently requested by AFS. In a response from the National Marine Fisheries Service, **Director Bill Gordon** writes: "This is in response to your letter of January 28, 1986 requesting that the Sacramento River winter run chinook salmon (*Oncorhynchus tshawytscha*) be listed as a threatened species pursuant to the Endangered Species Act of 1973 (ESA). The National Marine Fisheries Service (NMFS) reviewed the information initially submitted by **Ms. Cay C. Goude** of the American Fisheries Society/California Nevada Chapter concerning *O. tshawytscha* and determined that the petition presented substantial scientific data indicating that listing this species as threatened under the ESA may be warranted. Ms. Goude has been notified of this determination by letter of February 5, 1986. As required by Section 4(b)(3)(4) for

the ESA, the NMFS is initiating a review of the status of this species to determine if a threatened listing is warranted."

**THE NEW YORK CHAPTER** has contributed the 1985 dues of its student members to the Skinner Memorial Fund. Not a bad precedent for other Chapters to consider. The Skinner Fund is used to help especially deserving students attend annual AFS meetings.

**AN AFS LETTER TO PRESIDENT REAGAN** was mailed on 10 February asking that in the matter of public land grazing fees he either change to a program charging fair market value or terminate grazing in federal rangelands. We documented our request with information about the public subsidy for grazing, plus damage to the fisheries resources. Recently, we received a reply informing us that on 14 February President Reagan signed an executive order freezing grazing rates at the present subsidized level. We didn't have much hope of dissuading him, but our cause is just and someday the decisionmakers must accept it. Persistence is the magic word.

**WASHINGTON OFFERED A CONTINUOUS SERIES OF BUDGET BRIEFINGS** as the President unveiled his proposed 1987 budget. The following comparisons may be of interest, especially the proposed huge reduction in the National Marine Fisheries Service for 1987.

<u>Agency</u>	<u>Adjusted FY86</u> <u>budget</u>	<u>Presidents FY87</u> <u>budget request</u>	<u>Dif.</u>
		(millions)	
<u>Fisheries</u> <u>portion</u> <u>of USFWS</u>	44.8	43.8	- 1.0
<u>Bureau of</u> <u>Land Mgmt.</u> <u>Fish and</u> <u>Wildl.</u>	16.0	13.8	- 2.2
<u>U.S. Forest</u> <u>Service</u>	36.0	33.0	- 3.8
<u>Natl. Mar.</u> <u>Fish. Serv.</u> <u>Oper. and</u> <u>Research</u>	162.0	96.7	-65.4

## 1986 EXCOM MEETING

The AFS Executive Committee, under the gave of **President Johanna Reinhart**, held its regular spring meeting on March 8 and 9 at the Park Plaza Hotel in Boston, Massachusetts. The following are three of the many important decisions and actions taken:

1. **FUTURE ANNUAL AFS MEETINGS.** With the 1986, 1987, and 1988 annual meetings scheduled in Providence, RI; Winston-Salem, NC; and Toronto, ON, respectively, the Excom directed that the 1989 annual meeting be in the Western Division and thereafter the annual meetings be rotated systematically and evenly among the four Divisions. The planning, however, will retain flexibility to adjust as the situation requires.

2. **FISHERIES SCIENTIST CERTIFICATION.** In response to membership concerns, the Excom directed that certification application forms be changed to allow applicants to specify the level of certification (Associate Fisheries Scientist or Fisheries Scientist) they seek or to accept the alternative if the Board does not approve as specified.

3. **CHAPTER PRESIDENTS BECOME EXCOM MEMBERS.** With a strong majority vote, the Excom approved a Northeastern Division proposal that AFS Chapter presidents be ex-officio, nonvoting members of the Executive Committee, that they receive the biannual briefing books, all other Executive Committee communications, and that they be encouraged to attend and participate in the Committee's twice annual meetings.

### **DISCOUNTS AVAILABLE FOR TRAVEL TO ANNUAL MEETING**

Airfare discounts are now available for those planning to attend the 116th Annual Meeting of AFS in Providence, Rhode Island, September 14-18. American Airlines will give you a 40% discount and Piedmont a 25% discount off regular coach fares. Both discounts require only a 7-day advance purchase and apply to fares to either Providence or Boston. (The discount does not apply to ultrasavers, etc).

If you fly American or Piedmont, it will directly benefit AFS. How? American Airlines has already donated two free tickets to Anchorage for this year's "Alaska Grand Prize" that we will raffle in Providence. We will earn additional free airline tickets for the raffle if a sufficient number of us fly American or Piedmont to the meeting. This incentive agreement applies to any type of ticket you decide to buy—even ultrasavers, as long as you fly American or Piedmont. So help yourself to the best fares you can find on these two carriers, and at the same time, help AFS!

To order your reservations, you (or your travel agent) must call American at this number: (800) 433-1790. To get the discount on regular coach fares and/or to have your travel (whatever type of ticket it may be) count towards earning free tickets for AFS, you must tell the reservations clerk to credit your travel to "Star Number S11502." (If you decide to travel solely on Piedmont, be sure to book it through American Airlines so that your travel can be credited to our American star number account to earn free tickets).

#### **SKINNER MEMORIAL FUND RAFFLE UPDATE**

The AFS Raffle Committee, under the chairmanship of Carl Burger, continues to obtain prizes and donations for the Skinner Memorial Fund Raffle to be held at the Annual Meeting in Providence. The major prizes obtained so far include a virtual all-expense paid trip for two persons to Alaska (airfare included) for fishing and sightseeing during the month of June 1987, and a two-week pheasant and waterfowl hunt in South Dakota (thanks to the Upper Missouri River Chapter) during fall, 1986. Other potential grand prizes include a \$1,500 vacation package with airfare to Mexico (Baja, California) through the efforts of the Cal-Neva Chapter, and a Florida vacation with some guided fishing.

#### **POSITION AVAILABLE**

#### **EDITOR NORTH AMERICAN JOURNAL OF FISHERIES MANAGEMENT**

Application Deadline: 1 August 1986

The Society is seeking a successor to Mercer H. Partriarche, who is retiring as founding Editor of the quarterly North American Journal of Fisheries Management. The Editor's primary responsibility will be to continue the journal's development as a major medium of communication among fisheries managers. Candidates should have broad experience in practical fisheries management and in technical report writing, and some of their work should have been published in the peer-reviewed literature.

The journal embraces all aspects of fisheries management from human relations to systems modeling. The Editor processes 100-150 manuscripts annually, subjects them to peer review with assistance from the Editorial Board, and helps authors bring potential contributions to fruition. Because managers of diverse writing abilities are encouraged to submit papers to the journal, the Editor must be constructive as well as critical, and have facility with the English language. The Editor is responsible for the journal's technical and literary content. Copyediting, proofreading, and other publication matters are handled in the Managing Editor's office.

The appointment will be for three years, renewable once. The Society provides an annual stipend of US \$2,000 to the Editor, secretarial support up to \$4,000, a travel budget, and office supplies. The successful candidate must be or become an AFS member, but will not be required to relocate.

Applications should include a resume, an assurance that the time commitment can be met, and the names and addresses of three people who may be contacted for confidential evaluations. Direct inquiries and

applications to the Managing Editor at the following address:

Robert Kendall, Editor  
P.O. Box 1150  
Columbia, Maryland 21044

### POSITION AVAILABLE

#### DEPUTY EXECUTIVE DIRECTOR

For the first time, AFS is soliciting for a Deputy Executive Director to work with Carl Sullivan. This would be a great chance for the largest division (the Western) to be well represented at the central office. So all of you qualified and eager candidates sacrifice yourselves for the Division and APPLY. The deadline is May 31, 1986. See Page 47 of the March-April FISHERIES for additional details.

### VOIE VOIE VOIE

Candidates for the several offices of WDAPS appear below and on the postcard that accompanies this news letter. Please VOIE and return the postcard to Neil Armantrout ASAP. Deadline for receiving ballots is 30 June.

#### VICE-PRESIDENT

##### Nancy MacHugh

Nancy has been a fisheries biologist for the Oregon Department of Fish and Wildlife for 10 years. She received a B.S. in Fisheries from Oregon State university in 1974, and an M.S. in Fisheries Science from Oregon State University in 1978. She is a project leader for coastal steelhead research and has lately been leading a team of ODFW biologists in drafting a statewide plan for the management of steelhead.

Nancy's AFS activities began as a student at OSU in 1974 when she chaired the Student Affairs Committee for the Society. Nancy is currently President of the Oregon Chapter and a member of the Water Resources

Committee. She has previously served the Chapter as Internal Director, Vice President, and Arrangements Chairman, and received Awards of Merit from the Chapter in 1976 and 1982.

Nancy is an avid steelhead angler (so is her husband!), enjoys water and snow skiing, and is very active in state recreational conservation groups.

##### Mit Parsons

Mit Parsons is a fishery ecologist with the U.S. Forest Service Wildlife and Fish Ecology Unit in Fort Collins, Colorado. He has received a B.S. in Wildlife Biology (Aquatic Option) from the University of Montana, and M.Ed. and Ed.D. from Montana State University. He was a National Environmental Fellowship recipient for his doctoral research while at Montana State University. He has worked professionally for the U.S. Forest Service since 1978. From 1978-1983 he worked as a forest fishery biologist on the Siuslaw N.F. in Oregon. His research and management interests include land-aquatic classification, effects of forest practices on stream habitat, and modeling cumulative effects of forest management on fisheries resources. Presently, Mit is the Coordinator of a coalition of ten conservation and professional organizations in Colorado that is working for the passage of Riparian Protection and Enhancement Legislation.

Mit is a certified fishery scientist and has been active in all levels of the AFS. He has been a member of the Oregon AFS Chapter and is presently a member of the Colorado-Wyoming AFS Chapter. He has served on the Aquatic-issues Committee in both chapters and on the Western Division's Water Development and Instream Flow Committee. In 1985, he was the Trade Show Chairman and member of the Program Committee for the Western Division Meeting held in Snowmass, Colorado. Also in 1985, he was a member of the National AFS Professionalism Committee.



## SECRETARY/TREASURER

### Bryce Neilson

Bryce is Project Leader of the Bear Lake cutthroat enhancement program. Previously he served as Assistant Project Leader of the Flaming Gorge post-impoundment studies. He attended Utah State University where he received a B.S. in Fisheries Management in 1970. Bryce has been active in AFS since 1970. During that time he has served as a Two-year Committeeman, President-Elect, and President of the Bonneville Chapter.

### James B. Reynolds

James B. Reynolds has been Leader of the Alaska Cooperative Fishery Research Unit in Fairbanks since 1978 when the Unit was established. Before that he was Assistant Leader of the Missouri Cooperative Fishery Research Unit (1972-78) and Research Biologist at the Great Lakes Fishery Laboratory (1966-72)—all with the U.S. Fish and Wildlife Service. During 1957-66, Jim worked for and received a B.S. from Utah State University and M.S. and Ph.D. from Iowa State University. His research interests are the ecology, dynamics, and assessment of fish and their habitats. He joined AFS in 1960, is a Life Member and Certified Fisheries Scientist. Jim has been President of the Missouri and Alaska Chapters, Chairman of Membership Concerns Committee for the Parent Society, and Chairman of the Student Concerns Committee for the Western Division. He is presently the Historian for the Alaska Chapter, a member of the Membership Concerns Committee for the Parent Society, and Chairman of the Job Seekers Handbook Committee for the Education Section.

## NATIONAL NOMINATING COMMITTEE

### Cay Goude

Cay Goude is a Fish and Wildlife Biologist with the Ecological Services Branch, U.S. Fish and Wildlife Service, Sacramento, California. She received her B.S. in 1976 from the University of California (Davis) and her M.S. in Fisheries from California State University (Sacramento) in 1981. Cay is currently President of the California/Nevada Chapter, and was President of the Sacramento Chapter in 1982. As Cal/Neva President, she has been active in outer continental shelf environmental issues, the recent efforts to preserve the winter-run Sacramento River chinook salmon, and establishing a continuing education program.

### Forrest W. Olson

Forrest is a fisheries biologist with CH2M HILL, INC. where he has been involved in fishery hatchery planning, fish bypass development studies at Columbia River dams, instream flow needs, assessments, and fisheries impact studies for proposed and operating hydroelectric projects. Forrest received a B.S. in 1970 and M.S. in 1978 from the University of Washington, College of Fisheries. He was Secretary-Treasurer of the North Pacific International Chapter of AFS in 1981 and 1982, and is currently External Director of the Chapter. Forrest was also Program Chairman for the 1985 Symposium of Small Hydropower and Fisheries sponsored by the Western Division and Bio-engineering Section.

## Outdoor Recreation Future

The President's Commission on Americans Outdoors, created in January by Executive Order, and chaired by Governor Lamar Alexander of Tennessee, recently conducted hearings on the future of outdoor recreation in America. The fifteen commission members represent a broad spectrum of environmental and recreational interests.

The Commission has been directed by Governor Alexander to research two basic questions:

1. What will Americans want to do outdoors over the next generation?
2. How can the public and private sectors ensure that there will be appropriate places to do it?

Testimony from the Sport Fishing Institute was given to the President's Commission on March 23, 1986. Their summary and recommendations were:

Sport fishing is an extremely popular sport which provides significant economic

benefits to local, state, and regional economies, as well as the national economy. Fishing was second only to swimming among favorite sports in America in 1985, with 54 million Americans participating. The total direct and indirect effects of expenditures made by sport fishermen in 1985 on the national economy amounted to approximately \$50 billion and provided 600,000 person-years of employment. Planning for recreation should therefore, list sport fishing as a high priority in future policy considerations.

**PRESIDENT REAGAN SIGNS S.J. 262  
DESIGNATING JUNE 2-8, 1986 AS  
"NATIONAL FISHING WEEK"**

"Go Fishing!"

That's the message from President Reagan as he signed S. J. Resolution 262 designating June 2-8, 1986 as "National Fishing Week," the first time ever any President of the United States has proclaimed a week dedicated to fishing.



## THE TRIBUTARY

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