



# Fish Health Section Newsletter

# ASF

Volume 5

April - May 1977

Number 2

## FLORIDA AQUARIUM FISH RECOVERY UPDATE

It has been over four months since the paralyzing cold front hit Florida with freezing temperatures and snow. As usual, agriculture crop losses received most of the news coverage, but aquaculture crops were equally hard hit. As newscasters were reporting that 95% of the state's citrus crop froze on the trees, many fish farmers also faced 90% of their crop frozen or dead. Although much has been said derogatorily about the unexpected freeze, we should also look for positive aspects.

One positive aspect was the cooperation of many of the farmers with each other, with the Florida Tropical Fish Farmers Association, and with the state government. As in any business, competition is keen, as the fish farmers can attest. Yet the freeze brought together many minds to solve the universal problem suffered. The FTFFA improved its position with its members and the government by being the liaison for the more troubled areas. It was also beneficial that the state recognized the economy generated by the fish farmers.

The second positive aspect that is increasingly coming to attention is the condition of the fish. The surviving fish appear healthier and more colorful than has been produced in a long time. The breeders are sturdier, producing larger broods, with a higher survival rate. The incidence of occurrence of parasites is down considerably.

True, an economically weakening natural disaster is harmful. Yet when individuals are working together for a common cause, the FTFFA is able to provide the service as it always stated it could, and the state recognizes the immense impact the fish farms of Florida have on the economy of the U.S., all is not bad. With stronger stock, producing higher quality fish, the Florida fish farms are quickly getting back on their feet.

Bylaws - 5(2) 1977

Bylaws - 5(2) 1977

5(2)

1977

but never revision in 1981 address book

and: Bylaws



## COMMITTEE REPORTS

**-NEWSLETTER-** The newsletter committee (names and addresses below) has been asked to develop by July 15, a proposal regarding the future direction of the newsletter. Should the newsletter remain as a "house organ" or should it ultimately aim to become the "Journal of Fish Health" in much the same manner as the Bulletin of the Wildlife Disease Association became the Journal of Wildlife Diseases? We would like your comments.

**-MEMBERSHIP AND BALLOTING-** Quite a few new members have been recruited during the last few months, and AFS membership for 1977 now stands at about 170. Special thanks are due Glen Hoffman, who has recruited at least 10 new members although he is not a member of the Membership and Balloting Committee.

Although new membership sign-ups are booming, approximately 140 former members have not renewed membership for 1977. It is time to remind those of you who have not renewed that the annual elections are quickly approaching and ballots will be mailed (during the latter part of June) only to FHS members in good standing. In addition, subsequent newsletters will be sent only to 1977 members. To make certain that you are eligible to vote and receive FHS Newsletters, check the list on page 3 which contains the names of those who have not paid FHS dues for 1977. Annual dues are \$5.00 and membership is open to AFS members in good standing. Please make checks payable to the Fish Health Section/AFS and mail to:

Diane Elliott  
Membership & Balloting Committee  
Tavolek  
2779 - 152nd Avenue N.E.  
Redmond, Washington 98052

---

The NEWSLETTER of the Fish Health Section of the American Fisheries Society is published four times annually in accordance with Section objectives and mailed to the Section membership in good standing at the time of publication. The use of company or registered trade names does not constitute an endorsement but serves only to keep the members informed. Contributions to the NEWSLETTER are encouraged and should be sent to one of the following Committee members no later than August 5 to be included in the next quarterly issue:

- Dr. Stephen A. Flickinger (editor), Dept. of Fishery and Wildlife Biology, Colorado State University, Ft. Collins, CO 80523.
  - Dr. Charles R. Berry Jr., Utah Cooperative Fishery Unit, U.S.U., Logan, UT 84322.
  - Dr. Glen L. Hoffman, Fish Farming Experiment Station, P.O. Box 860, Stuttgart, AR 72160.
  - Mr. C. Dale Meryman, Fish Doctor Laboratory, 9225 Bay Plaza Blvd., Suite #408, Tampa, FL 33619
  - Dr. Wilmer H. Rogers, Fisheries Bldg., Auburn Univ., Auburn, AL 36830.
  - Dr. Guy L. Tebbit, Wildlife Vaccines, 11475 W. 48th Ave., Wheat Ridge, CO 80033.
- 

DELINQUENT MEMBERS

Anderson, Dennis  
Anderson, William J.  
The Aquarium Fish Importers &  
Pet Traders Assn. of So. Wales  
Armstrong, G. C.  
Arthur, Richard

Bartchi, Don  
Beleau, Marshall H.  
Bouck, Gerald R.  
Bondreau, John L.  
Burns, Cary D.

Cloutman, Donald  
Crateau, Edouard J.

DeCew, Mark  
Donahoo, Michael J.  
Donnelly, Cynthia

Economon, Phil  
Egusa, Syuzo  
Ehlinger, Neil F.  
Eisen, Stanley  
Elston, Ralph  
Environment Canada - Maritime Regional  
Library - Halifax (\$2.00 Paid)  
Erickson, David J. (\$2.00 Paid)

Flatow, R. E.  
Foller, Spencer  
Foster, Neal R.  
Frantsi, Chris

Garavelli, Ron J.  
Gird, John W.  
Goede, Ronald W.  
Grabowski, Stephen J.  
Gratzek, John B.  
Griess, Lawrence J.  
Grizzle, John

Hamilton, Ernest J.  
Hamman, Roger  
Harris, Richard G.  
Hauck, Kent A.  
Heckmann, Richard A.  
Henderson, George E.  
Hendrickson, Gary L.  
Herman, Roger L.  
Hicks, Charles  
Hine, P. Michael  
Hiss, Joe  
Howell, John  
Hughes, Janice S.  
Huizinga, Harry W.  
Hutson, Pat L.

Inslee, Theophilus

Janeke, Paul W.  
Johnson, Donald W.  
Johnson, Howard E.  
Johnson, Keith A.  
Johnson, Walter K.  
Johnson, William W.  
Jones, Raymond T.  
Joseph, Timothy W.

Katz, Bob  
Katz, Max  
Kelley, Russell K.  
Kiley, Charles  
Klocek, Roger A.  
Kloth, Thomas C.

LaCivita, Peter E.  
Langlois, David L.  
Leteux, Frank J.  
Lipari, Michael T.  
Lopinot, Alvin  
Lynn, Otto

Continued...



DELINQUENT MEMBERS

McDaniel, David W.  
McDermott, Larry A.  
McLeary, Edward

Madore, Robert P.  
Marchinko, John R.  
Margolis, Leo  
Marquardt, Gary D.  
Medin, Nicholas I.  
Michalek, Jan L.  
Morton, Andrew W.  
Mulcahy, Daniel  
Murru, Frank L.

Nagel, Mary L. (\$2.00 Paid)  
Nigrelli, Ross F.  
Norton, Joanne

Ordal, Erling J.

Pacha, Robert E.  
Parisot, Tom  
Parker, Nick C.  
Paterson, W. D.  
Pfister, Paul J.  
Phelps, Ronald P.  
Piper, Robert G.  
Pollard, Bruce E.  
Poulous, C. Jean

Rakocy, James E.  
Ratliff, Don  
Reider, Robert H.  
Ridenour, Ron  
Robertson, William T.  
Rogers, Wilmer A.

Savan, Milton  
Schlachte, John H. Jr.  
Schmitz, William A.  
Schofield, John S.  
Schramm, Hal  
Schulz, Roger  
Schwedler, Thomas E.  
Shotts, Emmett B.  
Shreck, Carl B.  
Simpson, W.  
Speidel, John J.  
Stevenson, Cameron  
Strasrypka, Alvan J.  
Stroud, Richard  
Summerfelt, Robert

Taylor, Peter W.  
Taylor, W. G.  
Tebbit, Guy Lee  
Tesar, Frank  
Trandahl, Arden J.  
Trust, T. J.  
Turner, Paul R.

U.S. Fish & Wildlife Service -  
Coleman NFH

Vancil, Roger  
Vedvig, Elwood  
Viele, Daniel P.

Wade, Richard A.  
Wahtola, Charles H. Sr.  
Wales, Joseph H.  
Watanabe, Yoshiichiro  
Weidow, Alfred  
Wold, Einar  
Wolke, Richard E.

Yodkovik, David  
Zeeman, Maurice G.



## Committees continued

### -PROFESSIONAL STANDARDS-

Dr. Richard A. Heckman of Brigham Young University has been appointed to complete the 1977 term of Chairman of the Professional Standards Committee. Heckman replaces Ivan McElwain who resigned.

McElwain, a long-time Fish Hatchery Biologist with the USFWS, was in charge of the Fish Disease Control Center at Fort Morgan, Colorado until his move, in August 1976, to the Fish Cultural Development Center at Lamar, Pennsylvania. In his new position, McElwain heads up a hatchery complex, the Development Center and a Youth Conservation Corps Camp.

Heckman served as Chairman of the Professional Standards Committee in 1976. He was active in pushing forward the registration of "Fish Health Inspectors". In his letter confirming Heckman's new position, FHS President James W. Warren viewed the role of the Professional Standards as an important means of "assuring the orderly development of professional competence and ethical standards." Warren went on to say that "your committee can do much to guide the development of university curricula, agency training programs, and fish disease control programs by establishing a 'yardstick' for identifying qualified fish health professionals."

The Professional Standards Committee oversees the Board of Certification and coordinates their programs for recognizing professional competence with the AFS Board of Professional Certification. Members of the committee for 1977 are: Richard Stroud (OR), Courtney Gustafson (PA), and Douglas Mitchum (WY). The new Bylaws will authorize one additional member who is yet to be named. Interested individuals should contact Dr. Richard A. Heckman, Brigham Young University, Dept. of Zoology, Provo, Utah 84601.

### -NOMINATING-

The following FHS members have been nominated for office. Ballots will be sent to members in good standing the latter part of June.

#### I. President-Elect

Dr. Robert A. Busch is Director of Research at the Rangen Research Hatchery, Hagerman, Idaho. Bob is active in disease diagnostic and consultative services for the trout industry, and in contract research and development particularly involving vaccines and chemotherapeutics. He was formerly an assistant professor of fish pathology at Humboldt State University, Arcata, California. He served on the Finance Committee and is the Past Editor of the FHS/AFS Newsletter.

Mr. Ronald W. Goede is a fish pathologist for the Utah Division of Wildlife Resources and is the Director of the Fishery Experiment Station at Logan. Ron is active as a practicing diagnostician and in coordinating efforts in fish disease control both within the state of Utah and with the Colorado River Wildlife Council. He co-authored the CRWC fish disease control policy, and was on the steering committee which formed the FHS/AFS. He has served on the FHS/AFS Board of Certification, and several committees including Finance, Nominating, and Technical Procedures. He is also the Past President of the Bonneville Chapter and the Western Division of the AFS. He



will soon receive his Ph.D. degree and is presently an adjunct professor at Utah State University where he teaches a course in fish diseases.

II. Secretary-Treasurer

Mr. Richard A. Holt has been nominated as the only candidate. Rich is the incumbent and has just now had time to become accustomed to the job (officers will serve only a ten-month term in 1977 to bring the Section into phase with the parent Society and other Sections). He received his B.S. and M.S. degrees in Microbiology at Iowa State and Oregon State universities. At present he is a fish pathologist and researcher for the Oregon Department of Fish and Wildlife in the Department of Microbiology at Oregon State University.

III. Board of Certification, 3-year term

Dr. John H. Schachte is a fish pathologist in the New York Department of Environmental Conservation and is in charge of the Rome Fish Pathology Laboratory. John is responsible for the fish health program in the state's hatchery system, and is directing the development of a statewide fish disease control program.

Mr. Harold Wolf is Senior Fish Pathologist in charge of the Fish Pathology Laboratory of the California Department of Fish and Game. Hal is an experienced fish pathologist and is noted for the design and implementation of one of the first and most successful state fish disease control programs.

IV. Chairman, Nominating Committee

Roger P. Dexter is a hatchery biologist for the U.S. Fish and Wildlife Service, Craig Brook National Fish Hatchery, East Orland, Maine.

Frank J. Leteux is a private hatchery biologist with Ozark Fisheries in Stoutland, Missouri.

-TECHNICAL PROCEDURES-

No report.

## SPECIAL PROJECTS

- Project #1- Glossary of Fish Health Terms. The U.S. Fish and Wildlife Service has granted \$2,000 to cover printing costs for the glossary, and George Post has offered to store extra copies at Colorado State University. Other than the little unforeseen details that always delay completion of a publication, this project appears to be done.
- Project #2- Nomenclature of the Bacterial Diseases of Fish. No report.
- Project #3- Development of FHS Position on Accelerating the FDA Registration of Minor-use Drugs and Chemicals. No report.
- Project #4- FHS Organized Module(s) on Annual Meeting Program in Vancouver, B.C. in September 1977. Tosh Yoshutake has finalized the program into two 1.5-hour modules. The first session deals with current fish health and disease problems and consists of five papers. The second session deals with advances in fish disease control and includes four papers.

## MEETINGS

Previously announced but reminded:

- WESTERN DIVISION AFS      July 10-13, 1977 in the Hotel Marriot,  
Tucson, Arizona. Contact Gary Chapman, 1350  
S.E. Goodnight Ave., Corvallis, OR 97330.
- MANAGEMENT, DISEASE AND      August 22-26, 1977, in Honolulu, Hawaii.  
NUTRITION      Contact Dr. Leighton Taylor, Waikiki Aquarium,  
2777 Kalakaua Ave., Honolulu, HA 96815.

New announcements:

- NORTH AMERICAN NATIVE      June 18-19, 1977 in Mobile, Alabama. In  
FISHES ASSOCIATION      addition to seminars, panel discussions, and  
guest speakers, there will be collecting trips  
in fresh, salt and brackish waters. Contact Dick Stober, Rt. 2, Bx. 267,  
Semmes, AL 36575.
- 8TH ANNUAL MIDWEST FISH AND      July 13-14, 1977, at the Scheman  
WILDLIFE DISEASE CONFERENCE      Continuing Education Bldg., Iowa State  
University, Ames, Iowa. Nice,  
inexpensive lodging is available in an airconditioned dormitory across  
the street from the meeting room. Dr. Paul Meglitsch will give a luncheon  
speech on taxonomy of myxosporidia. Contact Dr. Robert Summerfelt,  
Department of Animal Ecology, Iowa State University, Ames, IA 50011.



AFS ANNUAL MEETING September 12-16, 1977, Bayshore Inn, Vancouver, British Columbia. Contact either Janice Hughes, Louisiana Fish and Wildlife Commission, Quachita Station, P.O. Bx. 4004, Monroe, LA 71201, or Johanna Reinhart, Dept. of Fisheries and Environment, Fisheries and Marine Service, Scientific Information and Publications Branch, Ottawa, Ontario KIA 0E6.

## MISCELLANY

### CERTIFICATION OF FISH HEALTH INSPECTORS

Dr. Fred Meyer asks that applicants double-check to be certain that applications are complete. Documents needed are: a completed application form, a college transcript, and three letters of reference.

### NEW FISH DISEASE RESEARCHER AT STUTTGART, ARKANSAS

Andrew J. Mitchell (M.S., Auburn University 1976) has joined the staff of the U.S. Fish and Wildlife Service, Fish Farming Experimental Station, where he will assist Dr. Hoffman in fish parasite research, as well as develop a bacteriology program. Mr. Mitchell has initiated a study on the biology and control of a strain of the "new" enigmatic goldfish ulcer disease. At Auburn he demonstrated lesions in connection with the use of Furanace on channel catfish. (For comment or further information, contact Dr. Glenn L. Hoffman, Fish Farming Experimental Station, P.O. Box 860, Stuttgart, AR 72160).

### OPENINGS FOR THREE POST-DOCTORAL FELLOWS FOR NEW PROGRAMS AT THE NEW YORK AQUARIUM/OSBORN LABORATORIES OF MARINE SCIENCES, NEW YORK ZOOLOGICAL SOCIETY, BROOKLYN, NEW YORK, 11224.

- FHS/AFS  
Hawes  
June 1977*
1. GENETICIST - with interest in endocrinology, to explore pituitary-gonadal axis in fish. Candidates for this position will be expected to be familiar with endocrinological techniques; experience with fish desirable.
  2. PATHOLOGIST - Diseases of aquatic animals with special emphasis on fish diseases including treatment.
  3. INVERTEBRATE ZOOLOGIST - preferably with knowledge of the nutrition of marine species, to develop novel methods for rearing various aquatic organisms.

Imaginative and highly motivated persons interested in applying for the above positions, should send curriculum vitae including references, and a letter stating research objectives to:

Dr. Kenneth Gold, Assistant Director  
Osborn Laboratories of Marine Sciences  
Boardwalk & W. 8th Street  
Brooklyn, New York 11224



PUBLICATION OF FISH VACCINE CONFERENCE

*sent for 2 cc*

In the last FHS Newsletter it was stated that neither Norden Laboratories nor AFS was willing to publish the proceedings of this conference. However, National Marine Fisheries Service has agreed to this undertaking. Contact either Mrs. Patricia Pike, Editor, Norden News, Norden Laboratories, Inc., Lincoln, NE 68501, or Dr. Anthony Novotny, National Marine Fisheries Service, Manchester, WA 98353.

FHS COMMITTEE PARTICIPATION

As President Elect of the Fish Health Section I am looking forward to serving as President of your section in the coming year. As you know one of my duties will be to appoint members to the various committees and this will be easier if I know in advance who will do what. Therefore, I have listed the various committees and if you are interested in serving on one of these please indicate by a check and return to me. Your assistance and interest is greatly appreciated. John A. Plumb, Department of Fisheries and Allied Aquacultures, Auburn University, Auburn, Alabama 36830.

1. Nominating Committee \_\_\_\_\_.
2. Newsletter and Publications Committee \_\_\_\_\_.
3. Membership and Balloting Committee \_\_\_\_\_.
4. Technical Procedures Committee \_\_\_\_\_.

\_\_\_\_\_  
(Signature)

FHS BYLAWS

Your approval or disapproval of the revised bylaws will be obtained by mail ballot which will be included with the election of new officers. The changes in the bylaws primarily involve the new office of President-Elect. Please read the bylaws and be ready to vote the latter part of June. (Also please pay your dues so that you will be eligible to vote!)



FISH HEALTH SECTION  
of the  
American Fisheries Society  
  
BYLAWS

Section 1. Name: The name of this organization shall be FISH HEALTH SECTION of the American Fisheries Society as provided for by the By-laws of the Society as amended.

Section 2. Objectives: The general objectives of the Fish Health Section shall be those of the American Fisheries Society described in Article I of the Constitution of the Society with the following specific objectives set forth for the Fish Health Section:

- a. To maintain an association of persons involved in safeguarding the health of fish.
- b. To objectively focus attention on fish health problems by making available to the public appropriate news items, results of completed research, and other educational information.
- c. To stimulate the application of effective fish health protection practices by communicating with, cooperating with, and supporting governmental and private organizations interested in developing sound fish health programs.

Section 3. These objectives shall be pursued by:

- a. Compiling and disseminating proceedings, notes, or abstracts from fish disease conferences and technical sessions on fish health topics to Section members, to interested elements of the parent Society, and to the public.
- b. Submitting to the officers of the parent Society an annual report on the status of serious fish health problems, significant progress made in fish disease control, and recommendations for Society action as appropriate.
- c. Promoting the development and use of standardized, reliable techniques for the detection and/or diagnosis of certain diseases of fish.
- d. Developing professional standards, certification procedures, and a peer review system as needed to identify professional competence and ethical practices.

Section 4. Membership: Membership in the Fish Health Section shall be open to all members in good standing of the American Fisheries Society. Each Section member is entitled to one vote on all matters requiring the approval of the membership.

Section 5. Officers: The officers of the Section shall be a President, a President-Elect, and a Secretary-Treasurer.

- a. All officers shall be elected, as provided below, for a term of one year and shall serve without salary or other compensation for their services.
- b. No member shall hold the same office, except that of Secretary-Treasurer for more than two (2) consecutive terms.
- c. Candidates for office shall be nominated by the Nominating Committee.
- d. In the event of a vacated position, the Executive Committee shall appoint a qualified replacement to complete the unexpired term.

Section 6. Duties of Officers:

- a. President: The President shall serve as Chairman of the Executive Committee and shall preside at meetings of the Section, appoint all committees, and serve as ex officio member thereof except as limited herein. The President or his designated alternate shall represent the Fish Health Section to the parent Society. The President shall make such appointments and perform such other duties as are authorized and necessary to meet the objectives of the Section.
- b. President-Elect: The President-Elect shall perform the duties of the President in the absence of the President. The President-Elect shall serve as the Rules Officer of the Section to assure (1) Section compliance with these Bylaws, (2) coordinate the adoption of required changes to these Bylaws, and (3) maintain liaison with the Constitutional Consultant of the parent Society. With the assistance of the Executive Committee the President-Elect shall prepare an annual report on the status of serious fish diseases, advances in fish disease control, and on Section activities to the Executive Committee of the parent Society in time for inclusion in the agenda of their annual meeting. The President-Elect shall accede to and shall be installed as President of the Section at the annual meeting of the parent Society or at a meeting of the Section if these meetings are suitably scheduled to accommodate installation ceremonies.
- c. Secretary-Treasurer: The Secretary-Treasurer shall safe-guard the funds of the Section, receive membership fees from the Chairman of the Membership and Balloting Committee, and receive and account for income from sales of publications, fund raising efforts, and other sources. The Secretary-Treasurer shall serve as Chairman of the Finance Committee, pay all bills, keep an itemized account of receipts and disbursements, prepare a semi-annual financial report for the Executive Committee of the Section, and prepare an annual financial report for the membership. Reports to the parent Society shall be prepared and submitted as requested.

Section 7. Executive Committee:

- a. The Executive Committee shall consist of the elected officers of the Fish Health Section, the chairmen of the standing committees, and the immediate past president.



b. The Executive Committee shall have authority to determine policies and conduct business consistent with the objectives of the Fish Health Section. The Executive Committee may authorize the disbursement of Section funds for the accomplishment of specific clerical tasks and other operational expenses essential to attain said objectives. No real property or capital equipment valued in excess of \$100 may be purchased with Section funds without the approval of the membership at large.

c. The Executive Committee shall maintain an awareness of serious fish health problems, significant advances in fish disease control, and shall prepare appropriate resolutions for parent Society action. The Executive Committee is responsible for aiding the President-Elect in the preparation of the Section's annual report to the parent Society.

d. Meetings of the Executive Committee may be held whenever the President and a majority of the committee members can assemble to conduct Section business. For the purpose of creating and maintaining a quorum the Chairmen of the Standing Committees may designate one of their committee members as a voting alternate. The voting alternate must present to the President a written designation from his absent committee chairman before the alternate's votes may be recorded. There can be no designated voting alternates for the officers of the Section and no more than half of the committee members conducting business may be voting alternates. The business and voting of the Executive Committee may be conducted mail.

Section 8. Standing Committees: The President shall appoint Section members in good standing to the following Standing Committees whose activities shall not duplicate nor conflict with committee work or projects of the parent Society:

a. Nominating Committee: The Nominating Committee shall consist of a chairman and two members. The Chairman will be elected by the membership in the regular election. The candidates shall be the two appointed committee members currently serving. In the event that one or both committee members decline or cannot become candidates for the chairmanship, the Executive Committee shall select consenting qualified candidates.

The Nominating Committee shall nominate a slate of Section officers for the annual election. Nominations shall be submitted in writing to the membership, with the consent of the nominees, by July 1st of each year. Petitions signed by at least 10 Section members in good standing which recommend the nomination of consenting individuals will be reviewed by the Nominating Committee if submitted to the chairman by May 15th.

b. Newsletter and Publications Committee: The Newsletter and Publications Committee shall consist of a chairman and four members appropriately selected for their ability to support the objectives of the Section through the print media. The committee shall prepare, edit and arrange for the distribution of a quarterly Newsletter. The committee shall develop recommendations for editorial policy and serve as the point of contact for the development, preparation, publication and distribution of special publications arising from projects of the Section.

c. Membership and Balloting Committee: The Membership and Balloting Committee shall consist of a chairman and four members who shall be responsible for maintaining an active membership campaign and accommodate the enrollment of new members. The chairman shall collect all membership fees and coordinate the deposit of these funds in the accounts of the Section maintained by the Secretary-Treasurer. The committee is responsible for the timely preparation, mailing and tabulation of all mail ballots circulated to the membership at large and for the prompt reporting of the results to the President.

The annual election of officers shall be conducted and completed by August 1st of each year. Officers shall be elected by a majority of the mail ballots returned by August 1st. At least one-third of the current active membership must participate for the election to be valid. In the event of tie votes the Executive Committee shall be polled and a winner determined by their vote. This procedure may be applied to tie votes on other voting issues as needed.

d. Technical Procedures Committee: The Technical Procedures Committee shall consist of a chairman and four members. The committee shall develop effective measures which lead to the use of standardized, reliable and sensitive technical procedures for the detection, diagnosis and confirmation of fish diseases and for enhancing the health of fish. The committee shall prepare information for public use. Publication projects must first be approved by the Executive Committee and matters dealing with editorial policy, style, funding, publishing, and distribution shall be coordinated with the Newsletter and Publications Committee or the Executive Committee as appropriate. The Technical Procedures Committee shall be composed of recognized technical specialists.

e. Professional Standards Committee: The Professional Standards Committee shall consist of a chairman and four members. The committee is responsible for developing and maintaining a system for recognizing professional competence within the fish health field. Committee activities shall be coordinated with the activities of the Board of Professional Certification of the parent Society.

To execute the professional certification programs of the Section, a five (5) member Board of Certification shall be elected by the membership. The Board of Certification is a sub-unit of the Professional Standards Committee and takes its direction from the committee chairman. Candidates for the Board shall be nominated by the Nominating Committee under the procedures designated for the nomination of officers described in these Bylaws. No Section member who has had a Professional Certification revoked for cause may serve on the Board. Board members shall be elected to terms of three (3) years; except, that at the first election, one term shall be for one year, two terms for two years, and two terms for three years. Board vacancies shall be filled by the appointment of a qualified replacement by the Executive Committee and the appointee shall complete the term of the Board member he replaces. The Board shall, after each annual election, elect a Board chairman who shall coordinate Board activities with the chairman of the Professional Standards Committee. The Board must, at least semi-annually,



process all new and renewal applications for certification received by the chairman since the previous Board meeting. The business and voting of the Board of Certification may be conducted by telephone or by mail if actual meetings cannot be held.

f. Finance Committee: The Finance Committee shall consist of a chairman who is the Secretary-Treasurer and two members who are the chairman of the Membership and Balloting Committee and the Newsletter and Publications Committee. The Finance Committee shall prepare an itemized budget for the Section which will assure the continued financial solvency of the Section and designate the allocation of Section funds. The budget prepared by the Finance Committee shall cover an entire calendar year thereby allowing incoming officers and chairmen the final quarter for the preparation of the financial report for the year ending and a budget for the year beginning. Final budget figures must be developed by the Finance Committee and approved by the Executive Committee by March 31st.

#### Section 9. Meetings:

a. The Section shall convene biennial fish health workshops and business meetings and may hold interim-year business meetings in conjunction with the annual meeting of the parent Society if a quorum consisting of the President or the President-Elect, a majority of the Executive Committee or appropriate alternates, and 25 members in good standing are present.

b. Special meetings of the Section may be called by the Executive Committee provided the membership is given written notice of such meetings at least thirty (30) days in advance and a quorum as described in paragraph a. above is convened.

c. Section meetings shall be open to the public and any publications or proceedings resulting from such meetings shall be made available to all Section members, to the parent Society, and to the public at prices to be set by the Executive Committee based upon recommendations from the Newsletter and Publications Committee.

Section 10. Projects: Funding of special projects such as symposia, publications, continuing education projects for enhancing professional capabilities and the like must be arranged, at least tentatively before such special projects can be approved by the Executive Committee. Funding arrangements shall first be approved by the Executive Committee and then cleared with the Directorate of the parent Society. Upon receipt of the approval of the Executive Committee special projects will be assigned to an appropriate Standing Committee for coordination and general supervision. The Executive Committee may approve the expenditure of Section funds derived from special projects outside of the annual budgeting process. Special project receipts are to be maintained separate from membership fees by the Secretary-Treasurer.

Section 11. Fees: Annual membership fees for the succeeding calendar year shall become due on December 31st and are delinquent thereafter. The Executive Committee shall determine annually the fee to be assessed each member to pay for the projected expenses required to meet the objectives of the Section for the ensuing year.

#### Section 12. Amendments to the Bylaws:

a. Amendments to the Bylaws of the Section may be brought to a vote of the membership by a petition signed by not less than ten (10) members in good standing. Proposed amendments shall be circulated by the Membership and Balloting Committee together with a mail ballot which must be returned for counting by the date specified on the face of the ballot.

b. Amendments are adopted when a majority, as described in Section 8, paragraph c., vote favorably on the proposal. Such amendments shall not become effective until approved by the parent Society in accordance with the rules and regulations of the Society.

Fishery Biology  
301 Ayresworth Hall NE  
Colorado State University  
Fort Collins, Colorado 80521

Dr. Glenn L. Hoffman  
Fish Farming  
Exp. Stat.  
P.O. Box 860  
Stuttgart, AR 72160

