



NEWSLETTER

of the Exotic Fish Section
American Fisheries Society

2 January 1985

J. R. Stauffer, Jr., Editor

Volume 5, Number 1

From the President

This past year was a busy and productive one for the Exotic Fish Section and its members. The AFS meeting at Cornell University sponsored a session on Introduced Exotic Organisms which will be published in Fisheries. Also an excellent publication, Distribution, Biology, and Management of Exotic Fishes, was edited by Walter Courtenay and Jay Stauffer. Everyone interested in using exotic fishes should have this one in their library. The Introduced Species Terminology, as developed by Paul Shafland and Bill Lewis, was published in Fisheries (Vol. 9, No. 4). Two new committees, Chinese Carps and Genetic Conservation and Manipulation, were formed. Drafting a policy statement for the AFS concerning exotic fishes introductions was initiated. The membership was polled on the scope of the Section and results indicated a need to include transplanted species. Everyone is to be congratulated for their hard work.
New Officers for 1985

President

Neil (Nick) Carter
Texas Parks and Wildlife Department
4200 Smith School Road
Austin, TX 78744
(512) 479-4860

President-elect

Dr. Jay Stauffer
Dept. of Fisheries and Wildlife
8B Ferguson Building
Pennsylvania State University
University Park, PA 16802
(814) 863-0645

Secretary-Treasurer

Dr. Nick Parker
U.S. Fish and Wildlife Service
503 Bibb Street
Marion, AL 36756
(205) 683-6175

Our committees plan to be very active this year and chairmen are anxious to hear from anyone wanting to help. Committee Chairmen are:

Tilapia Committee

Dr. Walter Courtenay, Jr.
Department of Biology
Florida Atlantic University
Boca Raton, FL 33431
(305) 393-3331

Nominating Committee

Dr. Bill L. Shelton
Zoology Department
University of Oklahoma
Norman, OK 73019
(405) 325-7273

Definitions Committee

Mr. Paul Shaffland
Non-native Fish Research Lab
Florida Game and Freshwater Fish Comm.
801 N.W. 40th Street
Boca Raton, FL 33431
(305) 391-6409

Chinese Carps Committee

Dr. Standish K. Allen, Jr.
School of Fisheries, WH-10
University of Washington
Seattle, WA 98195
(206) 545-2824

Genetic Conservation and Manipulation Committee

Dr. David Philipp
University of Illinois
172 Natural History Survey
607 E. Peabody
Champaign, IL 61820
(217) 333-6897

Ad Hoc By-Laws and Protocol Committees

Dr. Christopher C. Kohler
Fisheries Research Laboratory
Southern Illinois University
Carbondale, IL 62901
(618) 453-2890

If you are willing to participate, Please contact me or the committee chairmen.

All committees should send news of their activities to the Section editor, Dr. Jay Stauffer, for our newsletter. Reports from the Chinese Carps and Genetic Conservation and Manipulation Committees appear in this newsletter. All committee chairmen are asked to submit a progress report for the final issue (May or June) to show accomplishments made during the year. The Nominating Committee will need to have names of nominees and biographical information to the editor by April for an early mailout; therefore, members should send suggestions for consideration now. The 1985 ballots will be sent by first class mail rather than as part of the last newsletter.

We have four members serving as liaisons this year.

Fish Culture Section

Dr. Robert R. Stickney
Southern Illinois University Fisheries
Carbondale, IL 62901
(618) 536-7761

Fish Management Section

Dr. Rich Noble
North Carolina State Univ.
Raleigh, NC 27607
(919) 737-2741

Fish Health Section

Dr. Dave Huffman
Southwest Texas State University
Biology Department, Aquatic
Biology Laboratory
San Marcos, TX 78666
(512) 245-2284

Aquarium Trade

Mr. Marshall Meyers
General Council to the Pet
Industry Joint Advisory
Council (PIJAC)
1710 Rhode Island Ave., NW
Washington, DC 20036
(202) 452-1525

I have requested that these gentlemen furnish the Editor with any information of interest to the Exotic Fish Section. Special effort is needed in case of the aquarium trade since we have had very little exchange with this group in the past.

A letter was sent to all editors of Society publications emphasizing the need for clarification of terminology associated with introduced fish. The editors were asked to use definitions published in *Fisheries* by Shaffland and Lewis in order to promote consistency in the literature and eliminate the confusion often associated with reports involving introductions. These definitions were also published in Vol. 3, No. 1 of our Newsletter and adopted by the Section at its Milwaukee business meeting, 1983.

Based on our desire to broaden the scope of our Section to include transplanted species and adoption of the above definitions, a name change to Introduced Fish Section seems appropriate. The ad hoc Bylaws Committee has made the appropriate changes to the bylaws including the terminology and the name change. These amendments to the bylaws require approval by two thirds of the Section members and by subsequent approval of the Society Executive Committee. The changes are presented in this newsletter, and the vote will be made by separate mailed ballot.

Nick Parker, our Secretary-treasurer, has suggested that we gather information about the members of the Section. I believe this is a good way that we can provide better service to the members, so a questionnaire has been included in the Newsletter. Please take time to answer it and return to the Secretary-Treasurer.

The AFS Resolutions Committee sets a deadline of 90 days preceding the annual AFS meeting date for receiving resolutions of national and international significance. Our policy is to include proposed resolutions in the newsletter before action is taken at the annual business meeting. Since no proposals were made this past year, we have no resolution(s) for 1985. Now is the time to be thinking about proposed resolutions for 1986. Southern Division AFS guidelines are used and available from the Section's editor and/or secretary-treasurer files.

The Environmental Concerns Committee of the American Fisheries Society is looking for nominations of environmental issues for which the Society should develop position statements. Are there any suggestions? The person(s) nominating issues should be willing to assist in the development of the position statement. Society positions have been developed for Human

Population Growth and Technology, Nonpoint Source Pollution, Sediment, Cumulative Effects of Small Modifications to Habitat, Toxic Substances, Acid Precipitation, Coping with Point Source Discharges, Effects of River and Stream Flow Alteration on Fisheries Resources, Effects of Surface Mining on Aquatic Resources in North America, Construction and Operation of Interstate Pipelines, Beverage Container Legislation, and Protection of Threatened and Endangered Aquatic Species.

NEWS RELEASE

SAN ANTONIO -- The angling future appears bright for Lake Calaveras near San Antonio because of two species of non-native game fish introduced recently by the Texas Parks and Wildlife Department.

A hybrid cross between the Texas' native saltwater spotted seatrout (speckled trout) and orangemouth corvina from California's Salton Sea is already exceeding biologist' expectations.

Biologist Jimmy Dean of San Antonio said anglers already are catching hybrid corvinas 11 to 12 inches long. "About 12,000 fingerlings were stocked on July 27, and they ranged in size from 3/4 to 1 1/4 inches in length," Dean said. "That means the hybrids attained a size in four months that it takes speckled trout in the bays two years to achieve."

The hybrids, which are similar to specks in appearance, were produced at the department's Palacios Research Station. Biologist John Prentice from the Heart of the Hills Research Station said the corvina hybrids have been caught in all net surveys taken at Calaveras, indicating high survival rates.

Calaveras also received its first stocking of red drum (redfish) last week, with 204,000 fingerlings brought in from the Palacios facility. Also receiving their first redfish stockings were Lake Fairfield near Fairfield and Lake Nasworthy at San Angelo. Lake Braunig at San Antonio and Tradinghouse Reservoir near Waco received supplemental stockings of redfish.

Prentice said water analyses at all five lakes appear to indicate sufficient dissolved solids (chlorides) to support redfish. "Lake Braunig already has proved it can support large numbers of redfish, and I believe the other lakes will too," Prentice said.

Biologists of the Texas Parks and Wildlife Department are investigating a strain of flounder from the Northeastern U.S. as possible game fish introduction for Texas' freshwater reservoirs.

Biologist John Prentice of the department's Heart O' the Hills Research Station near here said he hopes the 15 summer flounder obtained recently from Delaware will produce enough spawn to allow experimental stockings.

Prentice said he is excited about the northern imports for two main reasons. "Summer flounder are found in freshwater rivers in Delaware, and apparently they are well adapted to live in fresh water," he said. "Also, they obviously have a high tolerance for cold temperatures which is a problem with many species found in Texas' coastal waters."

In addition to being more environmentally tolerant than Texas' native southern flounder, they also grow larger sizes, with individuals documented up to 25 pounds in their native waters, he added.

Prentice said the summer flounder will be subjected to the same light/photoperiod regime which has been successful for inducing saltwater redfish to spawn in indoor tanks.

Flounder never have been produced in laboratories in large numbers, but they have been spawned under those conditions both in Texas and on the East Coast, Prentice added.

Another reason for optimism about flounder as a freshwater introduction is the survival noted in past stockings of southern flounder. The state record for freshwater flounder is nine pounds, a fish caught in 1978 from Walter E. Long Lake near Austin.

Prentice said unlike some other saltwater transplants, summer flounder are potentially suited for stocking in lakes other than power plant-heated reservoirs, since they apparently will survive Texas winter.

MINUTES OF THE ANNUAL BUSINESS MEETING
EXOTIC FISH SECTION
AMERICAN FISHERIES SOCIETY

Ithaca, New York

16 August 1984

President Chris Kohler called the meeting to order at 1135 AM with 21 members present. He determined that we did have a quorum and welcomed both members and non-members to the Annual Business Meeting of the Exotic Fish Section.

Old Business --

President Kohler announced that papers presented in Albuquerque, NM at the special symposium on exotic fish were now published and proceedings were available for \$34 per copy. Papers presented this year at Cornell will be prepared for publication in Fisheries.

Committee Reports --

Jay Stauffer presented the Secretary-Treasurer's Report and happily informed us that our treasury now has a balance of \$570. Jay then

presented President Kohler the Past-President's plaque, followed by a warm round of applause for a job well done.

President Kohler announced the report of the Definition Committee will be published in the next issue of *Fisheries*. Executive Director Sullivan moved to have the incoming President send a letter to all editors of Society publications urging them to adopt and use the definitions of exotic, transplanted, etc., species as defined in the Definition Committee's Report. Jon Stanley seconded the motion and it passed unanimously.

Bill Shelton reported for the ad hoc committee charged with examining the scope of interest and activities appropriate for the Exotic Fish Section. Based on 53 responses (27% of the memberships) 85% of the responses were in favor of expanding Section activities and interest to include transplanted species. Bill moved to expand the scope of the Section to include transplanted species. Jim McCann seconded the motion and then spoke against the motion. He suggested that we needed additional work on our Bylaws before the scope of the Section could be expanded. After some discussion, the motion was withdrawn.

Jim McCann moved to direct the President to appoint an ad hoc committee to revise the Bylaws to include exotic and other introduced species. Jay Stauffer seconded the motion and it passed.

President Kohler presented the report for the Grass Carp Committee. There was concern with documentation of triploids; is the Coulter counter technique valid? Nuclear diameters of triploids are reportedly 48% larger than those of diploids and the Coulter counter seems to be the method of choice for distinguishing between the two. A motion was made, seconded, and passed to change the name and broaden the responsibilities of the Grass Carp Committee to the Chinese Carp Committee.

Jim McCann moved to recommend that the President establish a Genetics Manipulation ad hoc committee. Nick Parker seconded the motion. After some discussion, with John Stanley speaking against and Carl Sullivan speaking for, the motion passed. There was some concern if Genetics should be a committee within a Section or if it should be a separate Section.

Jim McCann brought up the issue of wise use of exotics and suggested that the Section support research on exotics and not concentrate on the prohibition of exotics.

Jon Stanley, our liaison between the Fish Culture Section and this Section, informed us that Aquaculture 86 is scheduled for Reno, Nevada and the symposium, "The Role of Fish Culture in Fish Management", will be 31 March - 3 April 1985 at Lake of the Ozarks, Missouri. There will be a session on the use of exotic species in fish management.

As his last official act, President Kohler announced the new officers for 1985 as follows:

President - Nick Carter
 President-Elect - Jay Stauffer
 Secretary-Treasurer - Nick Parker

Bill Rutledge expressed Nick Carter's regrets for being unable to attend and his desires to work with the members of the Section. President Carter would like to receive names of all members interested in serving on a committee.
 New Business --

In President Carter's absence, Past-President Kohler called for new business. Discussion ensued on a name change for the Section, "Introduced Fish Section"? The Bylaws Committee will study the issue. Jay Stauffer made and then withdrew a motion to change the Secretary-Treasurer's term of office from 1 to 2 years.

As President-Elect, Jay Stauffer will be looking for newsy items for the Newsletter. Please send him items of interest for the Newsletter.

Past-President Kohler suggested that the 1985 ballots be sent to the members by first class mail and not as part of the Newsletter.

Jon Stanley moved to adjourn; Robing Welcomme seconded.

Attendees of the Annual Business Meeting are as follows:

Chris Kohler	Southern Illinois University
Bill Shelton	Oklahoma University
Carl Sullivan	AFS-Bethesda, Maryland
Daniel Smith	University of California
Bob Wattendry	Florida Game and Fish Commission
John M. Byrne	Ontario Ministry of Natural Resources
James McCann	National Fisheries Center-Leetown
Robin L. Welcomme	FAO, Rome, Italy
Cheryl Goudie	USFWS, Marion, Alabama
Nick C. Parker	USFWS, Marion, Alabama
Rich Noble	North Carolina State University
Jon Stanley	USFWS, Washington, DC
Stan Allen	University of Washington, Seattle, Washington
Carl Sinderman	NMFS, Sandy Hook, NJ
Paul L. Shafland	Florida Game and Fish Commission, Boca Raton, FL
Jay R. Stauffer	Penn State University
John Dentler	House Committee on Merchant Marine & Fisheries
Jim Clugston	FWS, Gainesville, FL
Walter R. Courtenay, Jr.	Florida Atlantic Univ., Boca Raton, FL
Larry Riley	Arizona Game and Fish Department

Report from Chinese Carps Committee

The Grass Carp Hybrid Committee met at the annual AFS Meeting in Ithaca to discuss activities for the coming year. It was the consensus of the Committee that we should try to stay apprised of the new developments centering on the triploid grass carp. Specifically, we will attempt to broaden our information base by compiling a listing of the current or evolving policies at the State level regarding the use of the "sterile" grass carp. For example, California has recently convened an advisory panel "to evaluate the ecology and biology of grass carp in relation to aquatic weed problems in southern California." Also, the Southeastern Association of Fish and Wildlife Agencies and the Florida Game and Freshwater Fish Commission have requested federal assistance in establishing production and certification procedures for the triploid. We will detail the specifics of these developments at a later time. Secondly, we will attempt to contact those research stations currently investigating the production or efficacy of the triploid grass carp; an attempt will be made to contact laboratories worldwide working with any triploids to fish, and inquire about general observations on the "zygotic" sterility of triploid fish. Thirdly, we will contact commercial producers of the triploid grass carp and ask for specifics on (intended) quality control.

Certification of triploidy in grass carp intended for management purposes remains an open issue. What level, i.e. percent triploidy, will be required in which States? Who will be primarily responsible for the original certification? What will be deemed valid certification: karyotype, nuclear volume, Coulter Counter, flow cytometry? Who will authorize dealers or suppliers.

In compiling the information above the GC/HY Committee will try to scrutinize emerging issues concerning the triploid grass carp and disseminate this information to the EFS and/or AFS membership.

Finally, the Grass Carp/Hybrid Committee was recently renamed the Chinese Carp Committee to address criticism that other Chinese carps were being neglected. This is a valid criticism. In the light of the formation of the new Genetic Conservation and Manipulation Committee under the chairmanship of Dave Philipp, future concerns dealing with chromosome manipulation and genetic engineering, including the triploid grass carp, should eventually be shifted to this new group, leaving matters concerning diploid Chinese carp under the auspices of the Chinese Carp Committee.

Chinese Carps Committee Members

Standish K. Allen, Jr.
Chairman
University of Washington

Homer Buck
Illinois Natural History Survey

Harry Dupree
Fish Farming Experimental Station

Bill Shelton
University of Oklahoma

Bob Wattendorf
Non-native Fish Research Lab

REPORT OF THE GENETIC CONSERVATION AND MANIPULATION OF FISHES COMMITTEE

November 7, 1984

Members of this committee are David P. Philipp, Chairman, Illinois Natural History Survey; Charles C. Krueger, Cornell University; Gary H. Thorgaard, Washington State University; Robert J. Wattendorf, Florida Game and Freshwater Fish Commission.

Full or partial committee meetings at one or all of the following locations will be held as follows:

New Orleans, LA., Southeast Meetings, November, 1984
Lake of the Ozarks, Arkansas Fish Culture/Management Meetings, 1985
Davis, CA., Genetics in Aquaculture Meetings, June, 1985
Sun Valley, Idaho, AFS Annual Meeting, September, 1985

We will be synthesizing ideas on how best to proceed to develop goals of this committee.

REQUEST FOR INFORMATION

The January 1973 issue of the Transactions (102:241-248) summarized all State laws pertaining to exotic fish introductions. We would like to update this information and make it available to the membership. Please review the 1973 information for your State and revise it as needed or simply send a copy of your present regulations on importation and use of exotic species. Your response now will make it unnecessary for us to write directly to each state for the information.

Please send responses to:

Dr. James Clugston
Scientific Director
National Fishery Research Laboratory
7920 N.W. 71st Street
Gainesville, Florida 32606

SYMPOSIUM ON THE AQUACULTURE OF CARP
AND RELATED SPECIES

PARIS (Evry) 2-5 September 1985
Organized by the Institute National de la Recherche Agronomique
Department d'Hydrobiologie
INRA 78350 Jory-en-Josas FRANCE

Tel. (3) 956-80-80
Telex INRACRZ 695431

First circular: call for poster papers

An international Symposium on the Aquaculture of Carp and Related Species is to be held in France on 2-5 September 1985. The purpose of the Symposium is to bring together basic and applied researchers to determine the state of the art in this field. The scientific program includes 20-minute invited review papers (see enclosed provisional program) and contributed original posters. There will be a poster session on each of the 10 topics listed on the provisional program. All papers will be discussed at the end of each topic in a 40-minute round-table discussion. All papers will be published in the symposium Proceedings.

Scientists who wish to make an original contribution to the field of carp aquaculture on any of the topics listed are invited to submit an abstract before April 1, 1985.

The Symposium will be held at an international center (FIAP, 4 les Passages, 91000 Evry; Tel: (6) 077 9720; Telex: 692-293). Moderate-cost accommodations will be available at the center.

INTRODUCED FISH SECTION
OF THE
AMERICAN FISHERIES SOCIETY

BYLAWS

Section I. Name

The name of this organization shall be the INTRODUCED FISH SECTION of the American Fisheries Society as provided for by the Constitution and Bylaws of the Society. In this context the name introduced fish is taken to include fish, shellfish, crustaceans, and other aquatic organisms regulated by fisheries legislation or effecting the well-being of the fisheries resources.

Section II. Objectives

The objectives of the Introduced Fish Section are to:

- (a) develop and maintain an association of persons interested and involved in the use of introduced and other aquatic organisms;

- (b) coordinate and develop programs to advance the knowledge and concerns related to introduced species;
- (c) to provide a forum for identifying and bringing attention to bear on the beneficial and potentially harmful impacts of introduced species;
- (d) to encourage communication among scientists, administrators, managers, educators, aquaculturists and others interested in introduced species;
- (e) to assist federal, state and private groups in making informed decisions on introduction of species; and;
- (f) to advise private industry in developing procedures for the safe handling of introduced species intended for closed system maintenance and culture.

Section III. Membership

Membership in the INTRODUCED FISH 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 IV. Officers

The officers of the SECTION shall be the President, President-Elect, and the Secretary-Treasurer.

- (a) The President-Elect and Secretary-Treasurer shall be elected for a term of one year or until a successor is elected. The President-Elect shall succeed to the office of President at the expiration of the President's term of office, which is one year. Officers shall serve without salary or other compensation for their services from the SECTION.
- (b) No officer shall hold the same office for consecutive terms except the Secretary-Treasurer who may hold office for two consecutive terms.
- (c) Candidates for office shall be nominated by a nominating committee appointed by the President. Mail balloting shall be completed at least one week before the annual meeting of the SECTION. Officers shall be elected by a majority of the returned mail ballots.
- (d) In the event of a vacant position, the Executive Committee shall appoint a qualified replacement for the unexpired terms.

Section V. Duties of Officers

- (a) The President shall serve as chairman of the Executive Committee of the SECTION and shall preside at the business meeting of the SECTION, appoint all committees and serve as an Ex Officio member thereof.

The President shall represent the SECTION and perform other duties and functions as authorized and necessary.

- (b) President-Elect: The President-Elect shall perform the duties of the President in the absence of the President and shall serve as editor of the newsletter to the members.
- (c) Secretary-Treasurer: The Secretary-Treasurer shall maintain a current list of the membership, receive all funds, pay all bills, keep an itemized account of all receipts and disbursements, present a semi-annual report to the SECTION Executive Committee and an annual report to the membership. He/she shall submit a report to the Executive Director of the Society within 30 days after the annual meeting of the SECTION is held and at other times as requested by the Executive Committee of the Society.

Section VI. Meetings

The SECTION shall hold at least one business meeting annually at a time and place designated by the Executive Committee. Special meetings may be called by the President with the advice and consent of the Executive Committee.

Section VII. Executive Committee

The Executive Committee shall consist of the officers and the immediate Past President of the SECTION, and one representative elected from each of the Divisions of the Society. The Executive Committee shall have authority to determine policies and conduct business consistent with the objectives of the SECTION. Meetings of the Executive Committee may be held at the call of the President when a majority of the committee members can meet and conduct business. Business and voting by the Executive Committee may be conducted by mail.

Section VIII. Voting and Quorum

Decisions at business meetings and the SECTION shall be in accordance with the Constitution of the Society. A quorum at business meetings shall be 15 members of the SECTION.

Section IX. Fees

The Executive Committee may assess those attending a meeting of the Section a registration fee as provided by the Constitution and Bylaws of the Society. The annual membership fee shall be \$3 unless determined

otherwise by the Executive Committee. Expenses of officers may be defrayed from funds available to the SECTION when authorized by the Section Executive Committee.

Section X. Terminology Associated with Introduced Organisms

In all its written correspondence/documentations, the SECTION shall utilize the terminology defined in "Shafland, P.L. and W. M. Lewis, 1984. Terminology associated with introduced organisms. Fisheries 9(4);17-18".

Section XI. Amendment of Bylaws

The Bylaws of the SECTION may be amended by mailed ballot and approved by a vote of 2/3 of the SECTION members voting on the amendment and by subsequent approval of the Society Executive Committee in accordance with the Constitution and Bylaws of the Society.